B2B PORTAL AND

P-511

VEHICLE MANAGEMENT SYSTEM



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Department of Computer Science and Engineering

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Pertificate

This is to certify that the project entitled

B2B PORTAL and VEHICLE MANAGEMENT SYSTEM

Submitted to the

Department of Computer Science and Engineering Kumaraguru College of Technology (Affiliated to Bharathiar University, Coimbatore)

in partial fulfillment of the requirement for the

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Technology for futur

<u>Certificate</u>

To Whomsoever It May Concern

Management System" is the bonafide work of Ms.S.Krishna Prabha, Mr.R.Jaikannan, Mr.S.Arun & Mr.B.Jayamurugan who have carried out the project under our supervision, certified further that to the best of our knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate. The Documentation submitted by the group was well compiled and the project completely satisfied our expectations.

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SYNOPSIS

The project titled "B2B Portal" is a comprehensive venture to develop an e-commerce website for BAT Earth Movers. The project also includes the development of B2B application software ie "Vehicle management system" for the same company. The details of the various vehicles used by the different branches of the company and their schedule is stored in a central database and immediate access of information can be obtained from the database from any part of the world.

This project consists of intricate operations that help the user to know the status of the vehicle at any given time such as

- > Maintaining the details of the vehicle
- > Keeping track of the daily reports of the vehicle
- > Computing the consolidated monthly report from the daily report
- > Portraying the oil consumption of vehicles for each month of every vehicle using Graphs and Charts.
- > Generating various reports such as Breakdown analysis report, Spare part reminders etc.

The website features the B2B e-commerce where the exchange of information takes place between businesses rather than between businesses and consumers. It paves way for transactions through multiple channels including e-marketplaces and electronic procurement systems. Immediate updates are made possible so that the administrator can have full control over any vehicle at any time.

The website was developed using HTML and ASP. The B2B application software was developed using Visual Basic 6.0 with its native backend Microsoft Access 2000.

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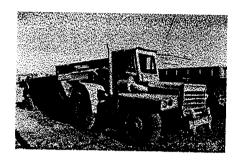
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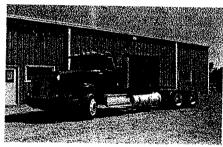
Introduction

1. INTRODUCTION

1.1 About the organization

Bharat Earthmovers is a division of BAT India, Coimbatore. The company is mainly involved in the earth moving operations. Apart from offering their services the company also rents out their equipments for use in various parts of India. The company is well established and in the process of modernizing all their facilities and equipments. The company owns about fifty tippers, forty excavators and twenty loaders.

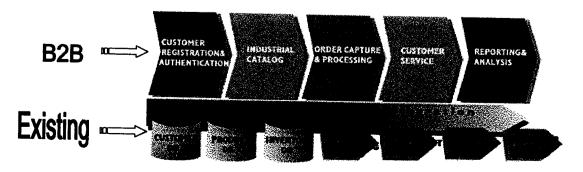






1.2 Existing System

The existing system in BAT earthmovers is only manual entry in computers, notebooks and notes for the drivers and service personnel. The management of the system becomes tedious and inaccurate. Also the data isn't centralized so any error in the entry elsewhere in the country could lead to disasters in terms of billing and replacement of spare parts at the right time. The figure below shows how the existing system is going to be integrated with B2B technologies to make the system efficient.



1.3 Why B2B?

On the Internet, B2B (business-to-business), also known as e-biz, is the exchange of products, services, or information between businesses rather than between businesses and consumers. Although early interest centered on the growth of retailing on the Internet. Forecasts are that B2B revenue will far exceed business-to-consumers (B2C) revenue in the near future. According to studies published in early 2000, the money volume of B2B exceeds that of e-tailing by 10 to 1. Over the next five years, B2B is expected to have a compound annual growth of 41%. The Gartner Group estimates B2B revenue worldwide to be \$7.29 trillion dollars by 2004.

B2B Web sites can be sorted into:

- ◆ <u>Company Web sites</u> since the target audience for many company Web sites is other companies and their employees. Company sites can be thought of as round-the-clock mini-trade exhibits. Sometimes a company Web site serves as the entrance to an exclusive extranet available only to customers or registered site users. Some company Web sites sell directly from the site, effectively etailing to other businesses.
- → Product supply and procurement exchanges where a company purchasing agent can shop for supplies from vendors, request proposals, and, in some cases, bid to make a purchase at a desired price. Sometimes referred to as e-procurement sites, some serve a range of industries and others focus on a niche market.
- ♦ Specialized or vertical industry portals which provide a "subWeb" of information, product listings, discussion groups, and other features. These

vertical portal sites have a broader purpose than the procurement sites (although they may also support buying and selling).

- ❖ Brokering sites that act as an intermediary between someone wanting a product or service and potential providers. Equipment leasing is an example.
- ❖ <u>Information sites</u> which provide information about a particular industry for its companies and their employees. These include specialized search sites and trade and industry standards organization sites.

This project deals with the development of a Company Web Site for Bharth Earth Movers and also a customized application software for use in the company.

1.4 Need for B2B

Reduced Purchase costs

One of the easiest ways that a company can cut costs is by remodeling the way it purchases spare parts and other raw goods. The National Association of Purchasing Managers says that the average manual purchase order costs a company \$79. This is because locating goods needed and then filling out the necessary paper work is a labor-intensive process. Searching for spare parts online requires much less time and electronically processing an order streamlines the ordering procedure.

N Increased Market efficiency

Using the Internet, companies can quickly and easily get price quotes from numerous suppliers. By increasing the number of sellers, buyers are more likely to get a better price, and vice versa. Just as eBay has created

an efficient market for everything from Barbie dolls to old Atari games, B2B hosts make connections between buyers and sellers that may not have otherwise happened. The vehicle can be delivered to the customer in the shortest time by checking the nearest vehicle available to the customers site. Thus suppressing other potential companies.

স Greater Market intelligence

Related to finding good prices, B2B hosts give producers a better insight into the demand levels in any given market. Spot price levels can quickly be determined in everything from oils to wheels. This allows companies to make better decisions regarding when to buy and when not to.

ম <u>Decreased Inventory levels</u>

Using B2B technologies, companies can better utilize their inventory and raw materials. The Internet allows even more time to be shaved off for companies that use "just in time" loading and off loading techniques. In essence, it allows firms to use less working vehicles to do the same amount of work, freeing some of these vehicles to be used elsewhere.



Requirements Analysis

Dedicated to our beloved Parents

2. REQUIREMENTS ANALYSIS

2.1 Hardware Requirements

- 1. Pentium II 350 Mhz or equivalent
- 2. Color Monitor
- 3. Graphics Card
- 4. 50mb hard disk space
- 5. Internet Connection
- 6. Modem

2.2 Software Requirements

- 1. Windows platform
- 2. Visual Studio 6 -Enterprise Edition
- 3. MS Access
- 4. Personal Web Server
- 5. MS Paint
- 6. MS PowerPoint
- 7. MS Front page

2.3 A glimpse at the technologies and software used

2.3.1 What is Client-Server Technology?

Client-Server computing simply means that two (or more) process run independently in a cooperative manner. The simplest and most common example is the classic two-tierd database application shown.



Here we see a client program communicating with a database engine running on a remote server and the two are connected via a network. The client is responsible for providing an interface to the user. Typically, the client will create an SQL request for data and send that request to the database. The database then evaluates the request, fulfills it and sends the data back to the client.

In case of multi-tiered architectures, the load on the database server will be high and to overcome this a secondary server namely, an application server is used.

The two-tiered client/server model is also known as thin client. In this the PC becomes totally network independent. If it can run Internet Explorer, it is powerful enough to run any of the client/server applications.

2.3.3.2 Oracle

Oracle 8 runs on a wide variety of platforms (Windows NT, Unix and OS/2). A personal edition of Oracle runs on Windows 95/98. Oracle has long enjoyed a reputation as the most powerful database on the market with advanced features optimizing large volume data processing, distributed data management, web connectivity, and robust OLTP (On Line Transaction Processing).

2.3.3.3 Microsoft SQL Server

Microsoft SQL server runs on windows NT only. Although that obviously might be limiting, it also offers some advantages. Historically, the RDBMS engine has had to be written with a separate layer to interact with the operating system, perform its own thread management, and so on. Because SQL server is written for only one operating system, it can be more closely integrated with the operating system.

2.3.4 Reasons for using MS Access as Project Backend

- Easy to modify database.
- Casy coding.
- Ability to transport database easily.
- Call Lesser validations to check for.
- MS Access is available on almost every system.

2.3.5 The Various data access methods

2.3.5.1 Data access Objects (DAO)

The proprietary COM interface to Microsoft's JET database engine version 3.5 and earlier. The Data Access Objects provide support for JET databases, other ISAM (Indexed Sequential Access Method) databases through installable ISAM drivers, and ODBC databases.

With the data control, DAO defaults to JET. To use ODBC direct with the data control, set the default property to 1(use ODBC).

When using DAO objects in code, after creating the workspace object, create a database object for JET data models or create a connection object to ODBC Direct. The DAO object that we interact the most with is RecordSet object. The RecordSet object itself is the program's near exclusive interface to the database. It represents either all of the records in a base table or the rows generated from a query.

2.3.5.1.1 What is [ET?

JET stands for Joint Engine Technology; it is Microsoft's single tier data engine. JET runs locally on each user workstation. Data can be stored locally or on a network server. JET ships as the native database engine in Microsoft Access, and it also ships with Microsoft Visual Basic.

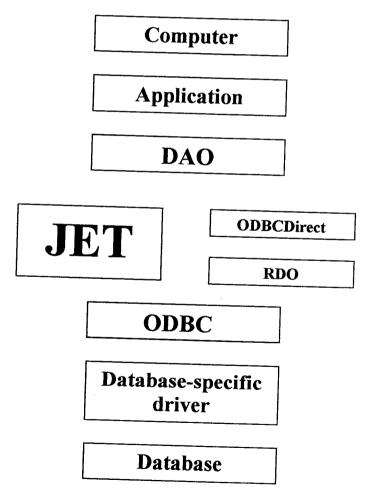
2.3.5.1.2 Open Database Connectivity (ODBC)

A component of the windows open services Architecture that defines a generic standard for accessing databases. ODBC defines a call-level API set and a DQL grammar conformance requirement.

2.3.5.2 Remote Data Objects (RDO)

RDO version 1 was introduced with Visual Basic 4 and was tremendously improved with RDO version 2, released with Visual Basic 5. RDO offers a compelling alternative to DAO for those who do not use the personal database in the system.

The main objects of RDO are rdoEnvironments, which is similar to the DAO workspaces. The rdoEnvironment object contains the rdoConnection collection. Each rdoConnection collection object consists of the rdoQueries, rdoResultsets etc.





2.3.5.3 Differences between RDO and DAO

RDO is table and row oriented, whereas DAO is file and record oriented; RDO places more emphasis on procedures and result sets, whereas DAO's primary emphasis is on the retrieval itself. RDO leaves the details of data retrieval to the ODBC driver.

2.3.5.4 ActiveX Data Objects

ADO allows your application to access any data that is exposed via an OLE DB interface. Further our applications can freely relate any OLE DB data source to any other OLE DB data source. ADO is to OLE DB what RDO is to ODBC. It is essentially a low-overhead wrapper around the OLE DB API. It adds key support for building client/server application residing on traditional networks or on web-based networks, including the internet.

2.3.5.4.1 OLE DB

OLE DB can be considered analogous to ODBC. It provides an interface to applications that make disparate data sources look as though they were the same data source. It logically organizes structured or unstructured data into rows and columns so that it can be accessed in a common way. An OLE DB data consumer is an application that uses OLE DB provided data. A data provider is a software component that exposes its data via an OLE DB interface.

2.3.5.4.2 ADO Objects

ADO supports an event driven access model. Therefore declaration is done using WithEvents clause. The connection object represents an open connection to a data source. The RecordSet is similar to DAO RecordSet.

2.3.6 Introduction to Visual Basic 6.0

Visual Basic is an ideal programming language for developing sophisticated professional applications for Microsoft windows. It makes use Graphical User Interface for creating robust and powerful applications. The Graphical User Interface as the name suggests, uses illustrations for text, which enables users to interact with an application. This feature makes it easier to comprehend things in a quicker and easier way.

2.3.6.1 History

Visual Basic was developed from the BASIC programming language. In the 1970s, Microsoft started developing ROM-based interpreted BASIC for the early microprocessor based computers. In 1982, Microsoft Quick Basic revolutionized Basic and was legimitized as a serious development language for the MS-DOS environment. Later on Microsoft Corporation created the enhanced version of BASIC called Visual Basic for windows.

2.3.6.2 Requirements

In order to run Visual Basic 6.0, a computer must have at least a 486 processor and a minimum of 16 MB of RAM. A complete installation of the most powerful edition i.e. Visual Basic 6.0 Enterprise Edition requires 250 MB of hard disk space and Internet Explorer V 4.0 or higher.

2.3.6.3 Event driven programming

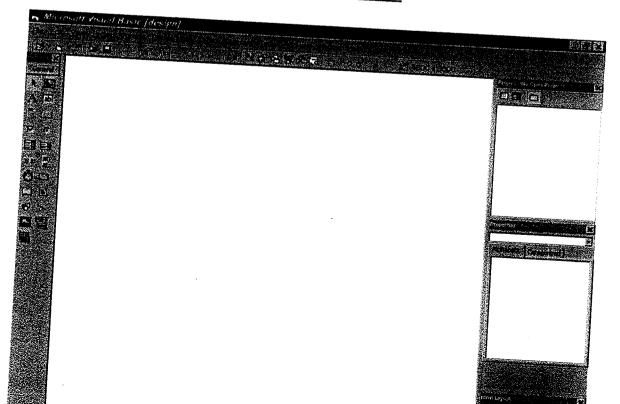
Visual Basic programs are built around events. Events are various things that can happen in a program. The program statements are executed only when a particular event calls a specific part of the code that is assigned to the event.

2.3.6.4 IDE environment

IDE refers to Integrated Development Environment because we can access virtually all of the development tools that we need from one screen called the interface .It is the design environment .The Visual Basic IDE is made up of the following components,

- Menu bar Displays commands that are required to build an application.
- * Toolbox Provides a set of controls that are used to place on the form.
- * Project explorer Quick reference to various elements of the project.
- Properties window Exposes characteristics of selected objects.
- * Form layout window Displays where and how a form is at runtime.
- ❖ Toolbar Easy access to commonly used commands.
- ❖ Form designer Helps in designing of the form.
- * Object Browser Allows us to browse through various objects.

The Visual Basic IDE



2.3.7 New features of Visual Basic 6.0

- ❖ VB 6.0 integrated Visual Database Tools and new Data Environment Designer can visually design oracle and Microsoft SQL server databases and create reusable data access queries all without leaving the visual basic environment.
- Highly interactive web pages can be programmed as easily as a visual basic form with the new Dynamic HTML page designer.
- ❖ VB 6.0 introduces ADO (Activex Data Object) as a powerful new standard for data access.
- Data Report Designer can quickly drag-and-drop custom data-bound controls to create forms or reports.
- Custom data-aware Com controls can be created for client or middle-tier and custom OLE DB providers.
- ❖ VB 6.0 supports mobile computing support.
- ❖ More wizards, tools, components...

2.3.8 A few things about html

This specification defines the HyperText Markup Language (HTML), version 4.0, the publishing language of the World Wide Web. In addition to the text, multimedia, and hyperlink features of the previous versions of HTML, HTML 4.0 supports more multimedia options, scripting languages, style sheets, better printing facilities, and documents that are more accessible to users with disabilities. HTML 4.0 also takes great strides towards the internationalization of documents, with the goal of making the Web truly World Wide.

HTML 4.0 is an SGML application conforming to International Standard ISO 8879 -- Standard Generalized Markup Language [ISO8879]). As an SGML application, the syntax of conforming HTML 4.0 documents is defined by the combination of the SGML declaration and the document type definition (DTD). This specification defines the intended interpretation of HTML 4.0 elements and adds syntax constraints that may not be expressed by the DTD alone.

2.3.8.1 What is the World Wide Web?

The World Wide Web is a network of information resources. The Web relies on three mechanisms to make these resources readily available to the widest possible audience:

- 1. A uniform naming scheme for locating resources on the Web (e.g., URLs).
- 2. Protocols, for access to named resources over the Web (e.g., HTTP).
- 3. Hypertext, for easy navigation among resources (e.g., HTML).

The ties between the three mechanisms are apparent throughout this specification.

2.3.8.1.1 Introduction to URLs

Every resource available on the Web -- HTML document, image, video clip, program, etc. -- has an address that may be encoded by a *Uniform Resource Locator*, or "URL"

URLs typically consist of three pieces:

- 1. The naming scheme of the mechanism used to access the resource.
- 2. The name of the machine hosting the resource.
- 3. The name of the resource itself, given as a path.

Consider the URL that designates the current HTML specification:

http://www.w3.org/TR/PR-html4/cover.html

This URL may be read as follows: There is a document available via the HTTP protocol residing on the machine www.w3.org, accessible via the path "/TR/PRhtml4/cover.html". Other schemes you may see in HTML documents include "mailto" for email and "ftp" for FTP.

Here is another example of a URL. This one refers to a user's mailbox:

...this is text...

For all comments, please send email to

Joe Cool.

2.3.8.1.2 Fragment identifiers

Some URLs refer to a location within a resource. This kind of URL ends with "#" followed by an anchor identifier (called the "fragment identifier"). For instance, here is a URL pointing to an anchor named section_2:

http://somesite.com/html/top.html#section_2

<u> 2.3.8.1.3 Relative URLs</u>

A relative URL doesn't contain any naming scheme information. Its path generally refers to a resource on the same machine as the current document. Relative

TRLs may contain relative path components (".." means one level up in the hierarchy efined by the path), and may contain fragment identifiers.

Relative URLs are resolved to full URLs using a base URL. As an example of elative URL resolution, assume we have the base URL http://www.acme.com/support/intro.html". The relative URL in the following markup or a hypertext link:

Suppliers

yould expand to the full URL "http://www.acme.com/support/suppliers.html", while ne relative URL in the following markup for an image

ould expand to the full URL "http://www.acme.com/icons/logo.gif".

n HTML, URLs play a role in these situations:

- Linking to another document or resource.
- Linking to an external style sheet or script.
- Images, objects and applets for inclusion in a page.
- Image maps.
- Form submission.
- Frames
- Citing an external reference.
- Referring to metadata conventions describing a document.

.3.8.2 What is HTML?

To publish information for global distribution, one needs a universally nderstood language, a kind of publishing mother tongue that all computers may

potentially understand. The publishing language used by the World Wide Web is HTML (from HyperText Markup Language).

HTML gives authors the means to:

- Publish online documents with headings, text, tables, lists, photos, etc.
- Retrieve online information via hypertext links, at the click of a button.
- Design forms for conducting transactions with remote services, for use in searching for information, making reservations, ordering products, etc.
- Include spread-sheets, video clips, sound clips, and other applications directly in their documents.

2.3.8.3 A brief history of HTML

HTML was originally developed by Tim Berners-Lee while at CERN, and popularized by the Mosaic browser developed at NCSA. During the course of the 1990s it has blossomed with the explosive growth of the Web. During this time, HTML has been extended in a number of ways. The Web depends on Web page authors and vendors sharing the same conventions for HTML. This has motivated joint work on specifications for HTML.

HTML 2.0 was developed under the aegis of the Internet Engineering Task Force (IETF) to codify common practice in late 1994. HTML+ (1993) and [HTML30] (1995) proposed much richer versions of HTML. Despite never receiving consensus in standards discussions, these drafts led to the adoption of a range new features. The efforts of the World Wide Web Consortium's HTML working group to codify common practice in 1996 resulted in HTML 3.2 Changes from HTML 3.2 are summarized here.

Most people agree that HTML documents should work well across different browsers and platforms. Achieving interoperability lowers costs to content providers since they must develop only one version of a document. If the effort is not made, there is much greater risk that the Web will devolve into a proprietary world of incompatible formats, ultimately reducing the Web's commercial potential for all participants.

Each version of HTML has attempted to reflect greater consensus among industry players so that the investment made by content providers will not be wasted and that their documents will not become unreadable in a short period of time.

HTML has been developed with the vision that all manner of devices should be able to use information on the Web: PCs with graphics displays of varying resolution and color depths, cellular telephones, hand held devices, devices for speech for output and input, computers with high or low bandwidth, and so on.

2.3.8.4 HTML 4.0

HTML 4.0 extends HTML with mechanisms for style sheets, scripting, frames, embedding objects, improved support for right to left and mixed direction text, richer tables, and enhancements to forms, offering improved accessibility for people with disabilities.

2.3.8.4.1 Internationalization

This version of HTML has been designed with the help of experts in the field of internationalization, so that documents may be written in every language and be transported easily around the world. This has been accomplished by incorporating [RFC2070], which deals with the internationalization of HTML.

One important step has been the adoption of the ISO/IEC:10646 standard as the document character set for HTML. This is the world's most inclusive standard dealing with issues of the representation of international characters, text direction, punctuation, and other world language issues.

HTML now offers greater support for diverse human languages within a document. This allows for more effective indexing a file.

2.3.8.4.2 Accessibility

As the Web community grows and its members diversify in their abilities and skills, it is crucial that the underlying technologies be appropriate to their specific needs. HTML has been designed to make Web pages more accessible to those with physical limitations. HTML 4.0 developments in the area of accessibility include:

- Encouraging the use of style sheets (rather than tables) to achieve layout effect.
- Making it easier to provided alternate (textual and aural) descriptions of images for non-visual browsers.
- Providing labels for form fields
- Providing labeled hierarchical groupings for form fields.
- Providing the ability to associate a longer text description with an HTML element.

Authors who design pages with accessibility issues in mind will not only receive the blessings of the accessibility community, but will benefit in other ways as well: well-designed HTML documents that distinguish structure and presentation will adapt more easily to new technologies.

2.3.8.4.3 Tables

The new table model in HTML is based on [RFC1942]. Authors now have greater control over structure and layout (e.g., column groups). The ability of designers to recommend column widths allows user agents to display table data incrementally (as it arrives) rather than waiting for the entire table before rendering.

Note. At the time of writing, some HTML authoring tools rely extensively on tables for formatting, which may easily cause accessibility problems.

2.3.8.4.4 Compound documents

HTML now offers a standard mechanism for embedding generic media objects and applications in HTML documents. The OBJECT element (together with its more specific ancestor elements IMG and APPLET) provides a mechanism for including images, video, sound, mathematics, specialized applications, and other objects in a document. It also allows authors to specify a hierarchy of alternate renderings for user agents that don't support a specific rendering.

2.3.8.4.5 Style sheets

Style sheets simplify HTML markup and largely relieve HTML of the responsibilities of presentation. They give both authors and users control over the presentation of documents -- font information, alignment, colors, etc.

Style information can be specified for specific elements or groups of elements either within an HTML document or in separate style sheets.

The mechanism for associating a style sheet with a document is independent of the style sheet language.

Before the advent of style sheets, authors had limited control over rendering. HTML 3.2 included a number of attributes and elements offering control over alignment, font size, and text color. Authors also exploited tables and images as a means for laying out pages. The relatively long time it takes for users to upgrade their browsers means that these features will continue to be used for some time. However, since style sheets offer more powerful presentation mechanisms, the World Wide Web Consortium will eventually phase out many of HTML's presentation elements and attributes. Throughout the specification elements and attributes at risk are marked as "deprecated". They are usually accompanied by examples of how to achieve the same effects with other elements or style sheets.

This specification includes three Document Type Definitions (DTDs) that may be used to validate HTML 4.0 documents. One for use with framesets, a loose DTD for transitional documents and a strict DTD that excludes presentation elements and attributes.

2.3.8.4.6 Scripting

Through scripts, authors may create "smart forms" that react as users fill them out. Scripting allows designers to create dynamic Web pages, and to use HTML as a means to build networked applications. The mechanisms provided to associate HTML with scripts are independent of particular scripting languages.

2.3.8.4.7 Printing

Sometimes, authors will want to make it easy for users to print more than just the current document. When documents form part of a larger work, the relationships between them can be described using the HTML LINK element or using W3C's Resource Description Language

2.3.8.5 Designing documents with HTML 4.0

We recommend that authors and implementors observe the following general principles when working with HTML 4.0.

2.3.8.5.1 Separate structure and presentation

HTML has its roots in SGML which has always been a language for the specification of structural markup. As HTML matures, more and more of its presentational elements and attributes are being replaced by other mechanisms, in particular style sheets. Experience has shown that separating the structure of a document from its presentational aspects reduces the cost of serving a wide range of

platforms, media, etc., and facilitates document revisions

2.3.8.5.2 Consider universal accessibility to the Web

To make the Web more accessible to everyone, notably those with disabilities, authors should consider how their documents may be rendered on a variety of platforms: speech-based browsers, braille-readers, etc. We do not recommend that designers limit their creativity, only that they consider alternate renderings in their design. HTML offers a number of mechanisms to this end (e.g., the alt attribute, the accesskey attribute, etc.)

Furthermore, authors should keep in mind that their documents may be reaching a far-off audience with different computer configurations. In order for documents to be interpreted correctly, designers should include in their documents information about the natural language and direction of the text, how the document is encoded, and other issues related to internationalization.

2.3.8.5.3 Help user agents with incremental rendering

By carefully designing their tables and making use of new table features in HTML 4.0, designers can help user agents render documents more quickly. Authors can learn how to design tables for incremental rendering in the definition of the TABLE element. Implementors should consult the notes on tables in the appendix for information on incremental algorithms.

2.3.9 Active Server Pages

2.3.9.1 Introduction to E-Commerce

The explosive growth of Internet Commerce has captured the public's imagination. Not so long ago creating web sites especially commerce enabled web sites, was a task best fit to MIT graduate students. No choice was left but to wrestle with the impenetrable syntax of a language like Perl or work with a low-level programming language like C++.

Fortunately, Microsoft has developed a technology that enables you to quickly create commercial Web sites: Active Server Pages (ASP). Using Active Server Pages, you can create web sites of the same quality as Dell.com or BarnesandNoble.com.

(Both sites were created using Active Server Pages).

2.3.9.2 What is E-Commerce?

E-Commerce refers to the process of buying or selling a product or service over an electric Network. The most popular medium in which E-Commerce is conducted is the Internet.

E-commerce encompasses three types of business transactions. First, a transaction can occur between a business and a customer. When you think of E-Commerce, this type of transaction is the first thing that springs to mind. A prime example of a business that engages in business-to-customer E-Commerce is Amazon. Amazon promotes itself as the "place to find and discover anything you want to buy online" by selling books, CDs, electronics and videos to customers.

Business-to-customer E-commerce can also include services. A subscription site that doesn't sell any tangible goods can also be engaged in E-Commerce. For example, Match.com –the online dating service- sells subscription to their web site to enable customers to browse their listings for potential romantic partners.

A second general form of description of E-Commerce involves transactions between one business and another. A business that engages in the type of E-Commerce is typically less visible to consumers and therefore, to the general public. A good example of a company that engages in business-to-business E-Commerce is Cisco Systems. Cisco Systems creates much of the physical infrastructure of the Internet that allows business to communicate.

Finally, a form of E-Commerce that has been very popular over the past couple of years involves customer-to-customer transactions. The best-known example of a company that engages in this type of E-Commerce is eBay. eBay enables its customers to auction items to other customers.(eBay collects a fee from every transaction.)

When one thinks of E-Commerce, we typically think of a customer selecting a product from a Website and paying for it online with a credit card. In other words, credit card transactions would appear to be an essential part of E-Commerce. However, E-Commerce might encompass only the activities leading up to the purchase and not the final purchase itself.

2.3.9.4 Microsoft Technologies for E-Commerce

2.3.9.4.1 Microsoft Web Server and Microsoft Database

Microsoft offers two Web servers: the Personal Web Server and Internet Information Sever. It is necessary that one of these Web servers installed on the computer (Advanced Programming requires IIS).

Databases: Microsoft offers two databases which is easy and simple, yet powerful enough too use with- Microsoft Access and Microsoft SQL Server. However, With minor modifications, other databases such as Oracle can also be used.

2.3.9.4.2 Microsoft Personal Web Server

The Microsoft Personal Web Server works with Windows 95, Windows 98, or Windows NT Workstation. A very low traffic web site can be hosted using this and alternatively, a prototype of the Website can be created before transferring the contents of the site to Internet Information Server.

2.3.9.4.3 Microsoft Internet Information Server

When the website is ready to be launched over the Internet, you'll need IIS. Unlike the Personal Web Server, Internet Information Server can support hundreds or even thousands of simultaneous users. Some of the largest web sites on the Internet use Internet Information Server. Microsoft uses IIS for its own Web site www.microsoft.com. The Microsoft site is the fourth busiest site on the Internet receiving 5 million visitors a day.

The Internet Information Server isn't compatible with Windows 95 or Windows 98. You will need Windows NT Server or Windows 2000 Server. It's

2.3.9.4.4 Microsoft Access

To create a commercial Web site, a database to store product and order information is necessary. Microsoft Access is part of Microsoft Office family of products.

Microsoft Access is a desktop database and not a Client/Server database like SQL server. Because Microsoft Access is a desktop Database, you should use it only for prototyping your Website or for low traffic Web sites. In general Microsoft Access cannot support more than 30 concurrent Users.

After creating the website with Microsoft Access, the Database can be upgraded to SQL Server by tools commonly called as "Upsizing Tools". The tools are included with Microsoft Access 2000.

2.3.9.4.5 Microsoft SQL Server

Unlike Microsoft Access, Microsoft SQL Server 7.0 can scale to support thousands of concurrent users and terabyte sized databases. For all intents and purposes, SQL Server can be used to support an online store. Some of the largest Web site on the Internet is using SQL Server including Dell, Buy.com, Barnes and Noble, and 1-800-flowers.com.

There are three versions of SQL Server 7.0:

SQL Server Desktop

SQL Server Standard Edition

SQL Server Enterprise Edition

SQL Server Desktop will work with Windows 95, Windows 98 and Windows NT Workstotics

SQL Server Standard Edition was designed to work with Windows NT Server and Windows 2000 Server.

Finally, the Enterprise Edition is an enhanced version of the standard edition that supports more memory, more processors, clustering, and Online Analytical Processing (OLAP) services.

2.3.9.4.6 Microsoft Visual InterDev

Microsoft Visual InterDev is developing environment for building Websites. At its more basic level, it's a very fancy editor that allows creating and modifying Web pages, on a remote or local server. Visual InterDev can be used for both normal HTML pages and Active Server Pages. Visual InterDev works with any ODBC or OLE DB compliant databases. It also includes server-debugging tools.

2.3.9.5 What is an ASP Page?

An ASP page is any file located on your Web server that has the extension .ASP. This special extension distinguishes an ASP page from a normal HTML file that ends with the extension .HTML or .HTM.

When a user visits a webs site and requests a normal HTML file, the web server simply retrieves the file from the computer's hard drive or memory and sends the file to the user's browser. The browser interprets the HTML content of the file and the visitor sees the Web page.

When someone requests a normal HTML page, the web server doesn't care about the contents of the file. The Web Server's role is to simply retrieve the appropriate file without processing it. The user's Web browser performs all the work of interpreting the content of the files.

On the other hand, when someone requests an ASP page, the Web server takes a more active role. Before the file is sent to the user's Web browser, the Web server first processes it. The Web server interprets and executes any script in an ASP page before sending it to the user's Web browser.

Active Server Pages include server-side scripts. An ASP page can contain scripts written in VBScript or Microsoft Jscript or PerlScript.

The advantage of using scripting languages to build Web pages is that it makes easy to modify a website even after it has been launched. When an ASP page is changed, it is automatically recompiled the next time it is requested.

2.3.9.6 Active Server Pages Contain Objects and Components

An ASP page would be severely limited if it could contain only scripts. Fortunately, an ASP page contains server-side components.

A component is something that typically has methods, properties and collections. A component's method determines the actions taking part in the project. A Component's property can be read or set to specify the state of the component. Component's collections are set of keys and value pairs related to the component.

Active Server pages includes two types of Components

- ♦ The built-in Objects
- ❖ Installed Components

Built in Active Server Page Components

- Request Object
- Server Object

In addition to the built in Objects, several installed components are bundled with ASP. Some of them are...

- 1. Ad Rotator Component
- 2. Browser Capabilities Component
- 3. Content Linking Component

A special set of Objects known as ActiveX Data Objects enables to access a Database from an ASP page. ActiveX components can be used to Insert, Delete, Update rows in a Database Table.

Degian

3. DESIGN

3.1 Database Design

The following tables give a vivid description of the database.

Table Name - History

S.NO	FIELD NAME	DATA TYPE	SIZE	DESCRIPTION
11. 22. 32. 42. 54. 62. 7. 88.	Year_of_manufacture Makername Chasis_no Eng_sr_no Reg_no Dop Hand_of_vehicle Kmsrun	Long Text Text Text Text Date/Time Text Long	4 50 50 50 50 8 50 4	Year of manufacture Makers Name Chasis Number Engine Serial Number Registration Number Date of Purchase Hand of vehicle Kms run at time of purchase
9; 10; 11; 12;	Lastservice Eqchanged Eqnotchanged Next_service	Date/Time Text Text Date/Time	8 250 250 8	Last Service Date Equipments changed Equipments not changed Next Service date

Purpose

The History table maintains the details of the vehicles such as Registration Number, Chassis number and other details along with the service details of the corresponding vehicle.

Table Name - Monthly remarks

S.No	FIELD NAME			DESCRIPTION
1.	Regno	Text	50	Registration Number
2.	Date	Date/Time	8	Date
3.	Remarks	Text	250	Remarks of the Month

Purpose

Table Name - Monthly Report

S.NO	FIELD NAME	DATA TYPE	SIZE	DESCRIPTION
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Regno Totalworking Totalkms Totalhrs Totaldiesel Totaloils Dieselconsum Greaseconsum Month Year	Text Long Long Long Long Long Long Long Long	50 4 4 4 4 4 4 50 4	Registration Number Total working Hours Total Kilometres Total Hours Total Diesel consumed Total oils consumed Diesel consumption per Km Grease consumption per Km Month Year

Purpose

The consolidated values are calculated from the daily report table and stored in the monthlyreport table.

Table Name – Default Spare part reminders

.NO	FIELD NAME	DATA TYPE	SIZE	DESCRIPTION
1.	Regno	Text	50	Registration Number
2.	Date	Date/Time	8	Date
3.	StartingKm	Long	4	Starting Km
4.	ClosingKm	Long	4	Closing Km
5.	Sparepartname	Text	4	Spare Part Name
6.	Sparepartcode	Text	4	Spare Part Code

Purpose

The Default Spare part reminders table holds all the details of the spare parts being changed and when to change it.

Table Name - Daily Items

s.No	FIELD NAME	DATA TYPE	SIZE	DESCRIPTION
1. 2. 3. 4. 5.	Regno Date Oil Oilfilter Dieselfilter	Text Date/Time Long Long Long Long	50 8 4 4 4	Registration Number Date Oil(Litres) Oil Filter Diesel Filter

Purpose

The Daily Items table contains the details of the daily items to be changed for each vehicle.

Table Name - Passwd

S.NO	FIELD NAME	DATA TYPE	SIZE	DESCRIPTION
1. 2. 3. 4. 5.	Username Password Entry Report Modi	Text Text Long Long Long	50 50 4 4 4	User name Password Entry Level Report Level Modification Level

Purpose

The details of the username, password and permissions of various access levels are stored in the Passwd table.

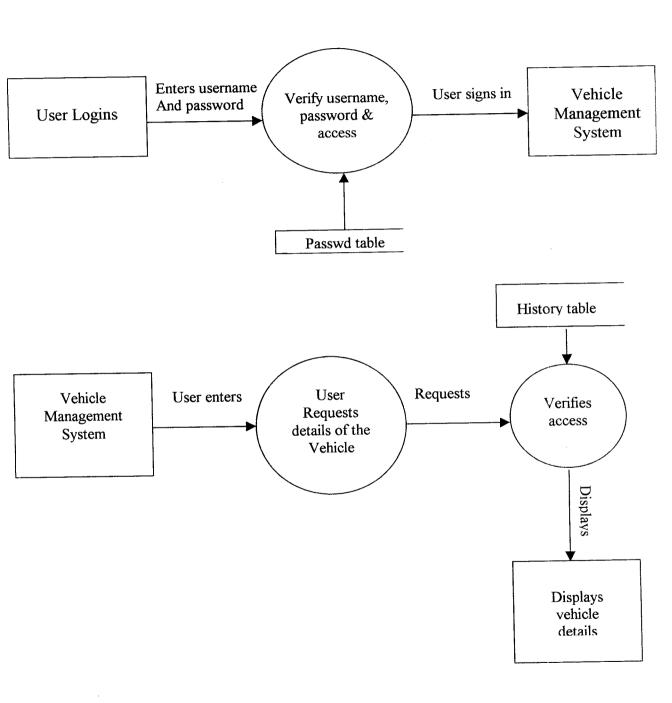
Table Name – Daily report entry

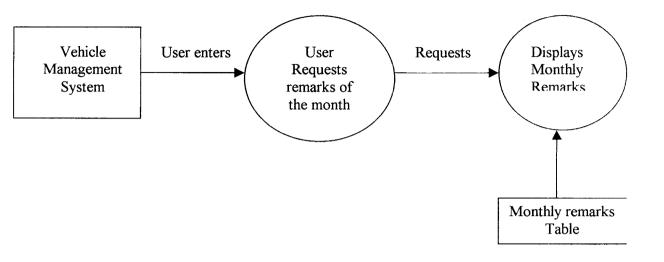
S.NO	FIELD NAME	DATETYPE	SIZE	DESCRIPTION
	1 - P			
			,	
1.	Date	Date/Time	8	Date
1. 2.	Regno	Text	50	Registration Number
3.	Sitename	Text	50	Site Name
4.	Starting	Long	4	Starting Km
5.	Closing	Long	4	Closing Km
6.	Working	Long	4	Working Km
7.	Totalbill	Long	4	Total Billing Hours
8.	Diesel	Long	4	Diesel(Ltrs)
9.	Engoils	Long	4	20-40 Engine Oils(Ltrs)
10.	Gradeoils	Long	4	60-98-100-140 oils(Ltrs)
11.	Grease	Long	4	Grease(Ltrs)
12.	Oldoils	Long	4	Old Oil(Ltrs)
13.	Cumhours	Long	4	Cumulative Hours
14.	Spareparts	Text	250	Spare Parts Changed
15.	Remarks	Text	250	Remarks

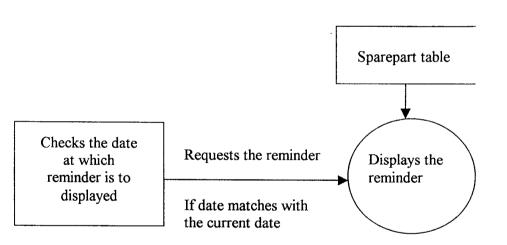
Purpose

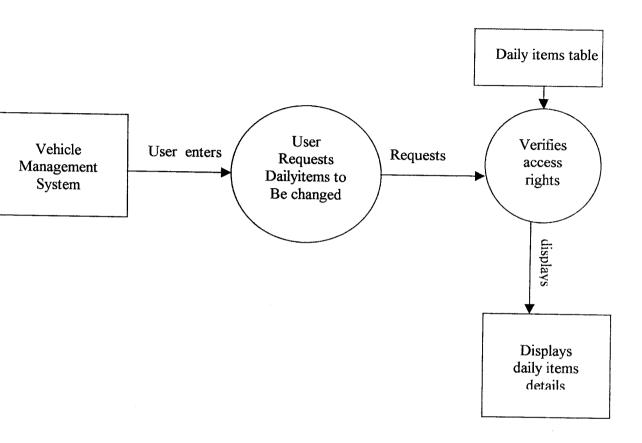
The Daily Report table contains the details regarding the quantity of the various oils, diesel consumed and also the working hours of the vehicle. Furthermore, this table the site in which the vehicle is currently working and also its current status.

3.2 Dataflow Diagrams









Implementation

4. IMPLEMENTATION

4.1 Vehicle Management System

The Vehicle Management System application was created using Visual Basic 6.0 as the front-end and MS Access as the backend.

- Data Access Method ADO coding.
- Security for users Entry Level, Report level, Modification Level.
- All Errors are trapped in the front end.
- Easy Interface
- Standard tool bars in all the forms
- Reports using Data Reports
- Only the Vehicle Registration Number is required to generate reports.
- · Help facility on all the forms

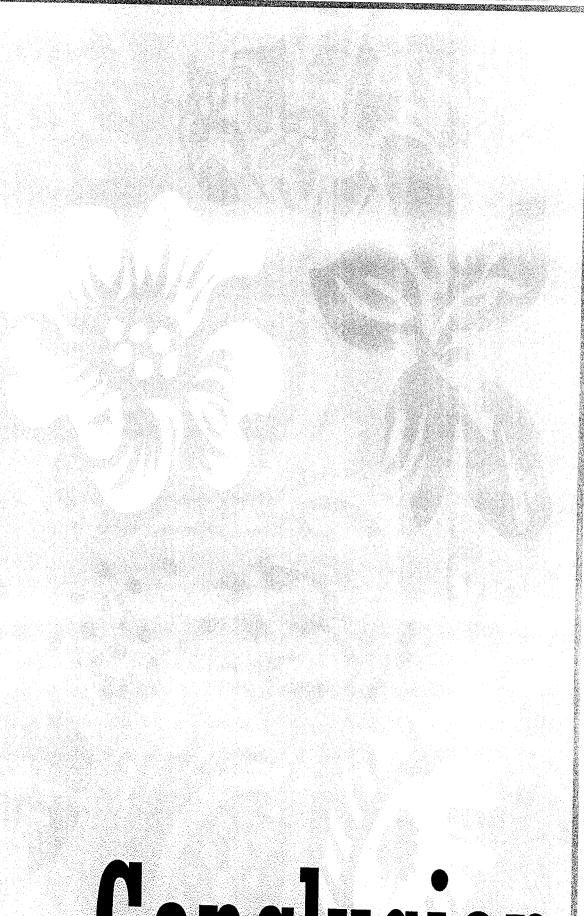
The Sample coding is given in APPENDICES A & B

4.2 B2B Portal

The B2B portal was created using HTML and ASP. ASP Pages are used for data access from the system. The B2B portal presents an Internet Format of the Vehicle Management System with all the features including security and help. This Portal will be linked to the Companies Website to provide a centralized database.

All manipulations performed in the application can also be carried out in the web site and can be carried out from any part of the world once posted on the web. Various reports and administrator facilities are implemented in the web site and hence provide excellent support for the members using it.

The sample coding and the user interfaces are given in the APPENDICES – C & D.



5. CONCLUSION

The Project on "B2B Portal and Vehicle Management System" was successfully completed with its focus mainly on the e-commerce buzz word B2B. It is an emerging technology and in near future all most every day to day activity will have its place in the B2B e-commerce. The main aim was to create an interactive website featuring the various operations in a huge vehicle management system and presenting the user with immediate access of information regarding the status of the vehicle at any given time. Various tools such as Graphs and Charts were used to give a visual idea and an user friendly interface.

We thoroughly enjoyed doing the project and hope this experience will be beneficial for us in future endeavors.

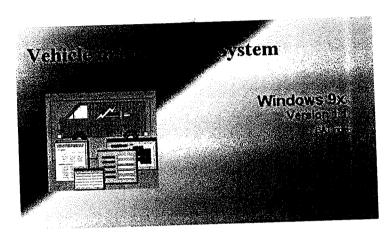
APPENDIX

APPENDIX-A

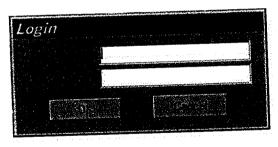
<u>APPENDIX - A</u>

Visual Basic User Interfaces

Splash Screen



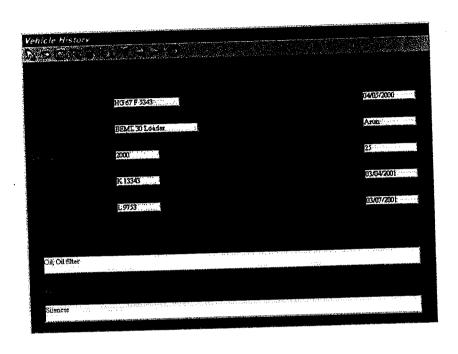
Login Sc



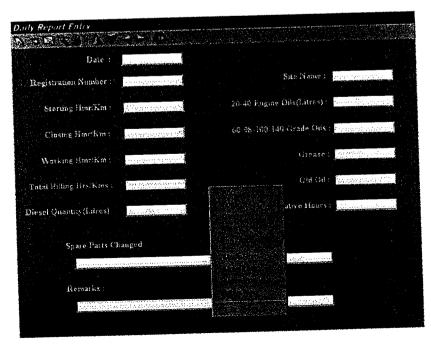
Main Screen



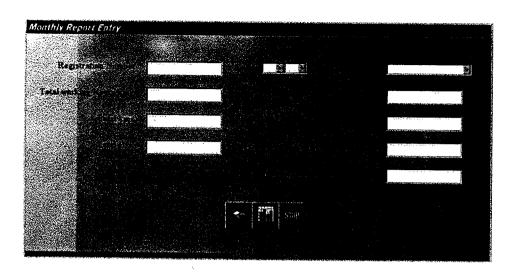
<u> History of Vehicle</u>



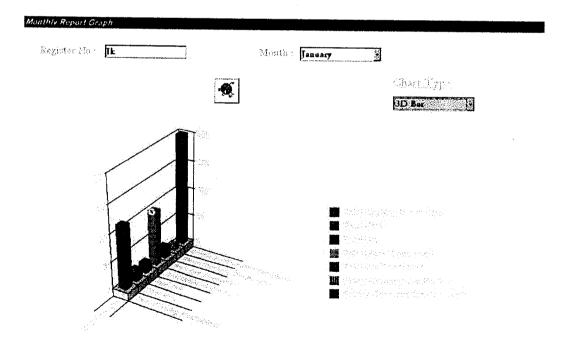
Daily Report Entry



Monthly Report Entry

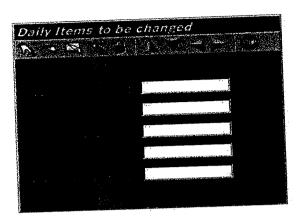


Monthly Report Graph

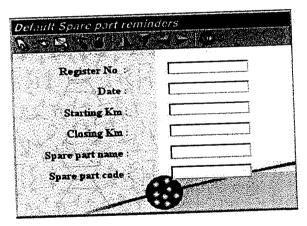




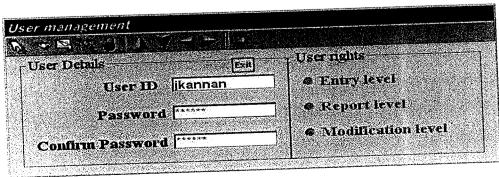
Daily Items to be changed



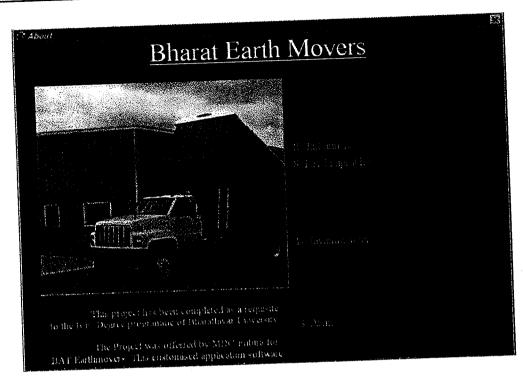
Default Spare part reminders



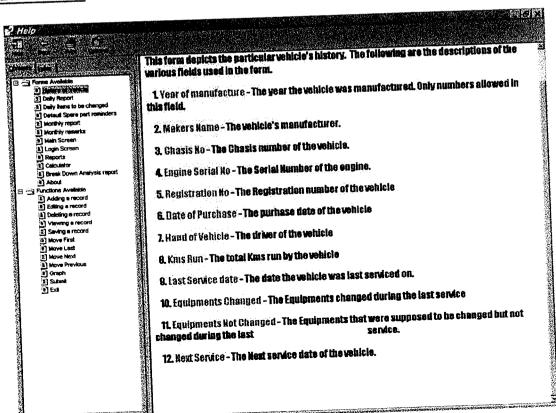
User Management Screen



out Screen



<u> Help Interface</u>



APPENDIX-B

APPENDIX - B

Visual basic 6.0 coding used in forms

1. Entry Level Interfaces

Option Explicit

New ADODB.Recordset

There are several forms using the same coding listed here, the only thing that changes is the number of text boxes. These forms form the source of data entry.

Dim cnn As New ADODB.Connection, rst As New ADODB.Recordset, cmd As ADODB.Command, rst2 As

```
Dim entry As Integer, report As Integer, modi As Integer
Private Sub Form_Load()
str = App.Path & "\vehicle.mdb"
strsql = "select * from dailyitems"
strsql1 = "select * from passwd"
cnn.Provider = "Microsoft.Jet.OLEDB.3.51"
cnn.Open str, "admin"
rst.Open strsql, cnn, adOpenKeyset, adLockOptimistic
rst2.Open strsql1, cnn, adOpenKeyset, adLockOptimistic
rst2.MoveFirst
  Do Until (rst2(0) = sasIII)
  rst2.MoveNext
  Loop
entry = rst2(2)
report = rst2(3)
modi = rst2(4)
Text1.Enabled = False
Text2.Enabled = False
Text3.Enabled = False
Text4.Enabled = False
Text5.Enabled = False
If entry \Leftrightarrow 0 Then
```

Toolbar1.Buttons(2).Enabled = False Toolbar1.Buttons(3).Enabled = False Toolbar1.Buttons(4).Enabled = False Toolbar1.Buttons(7).Enabled = False Toolbar1.Buttons(8).Enabled = False

Dim str As String, strsql As String, strsql1 As String Dim Msg, Style, Title, Help, Ctxt, Response, MyString

Public tinsI As Variant, sasIII As Variant

```
mndel.Enabled = False
mnedit.Enabled = False
mnfirst.Enabled = False
mnlast.Enabled = False
mnnext.Enabled = False
mnpre.Enabled = False
mnview.Enabled = False
End If
If report <> 0 Then
Toolbar1.Buttons(2).Enabled = False
Toolbarl.Buttons(3).Enabled = False
Toolbarl.Buttons(4).Enabled = False
 mndel.Enabled = False
 mnedit.Enabled = False
 mnview.Enabled = False
 End If
 Toolbar1.Buttons(5).Enabled = False
 mnsave.Enabled = False
 End Sub
 Private Sub Form_MouseUp(Button As Integer, Shift As Integer, X As Single, Y As Single)
 If Button = vbRightButton Then
 dailyitems.PopupMenu mnclk
  End If
  End Sub
  Private Sub mnadd_Click()
  Text1.Enabled = True
  Text2.Enabled = True
  Text3.Enabled = True
  Text4.Enabled = True
   Text5.Enabled = True
   Text1.Text = ""
   Text2.Text = ""
   Text3.Text = ""
   Text4.Text = ""
   Text5.Text = ""
   Text1.SetFocus
    rst.AddNew
    End Sub
    Private Sub mndel_Click()
    Text1.Enabled = \overline{False}
    Text2.Enabled = False
    Text3.Enabled = False
    Text4.Enabled = False
    Text5.Enabled = False
    tinsI = InputBox("Enter Vehicle register no", "Daily Items to be changed")
    If Len(tinsI) = 0 Then Exit Sub
```

rst.MoveFirst

symila tineI <> ret(0)

```
rst.MoveNext
    If rst.EOF Then
    rst.MoveLast
   GoTo nextv2
   End If
   Loop
      Text1.Text = rst(0)
      Text2.Text = rst(1)
      Text3.Text = rst(2)
      Text4.Text = rst(3)
      Text5.Text = rst(4)
     Msg = "Confirm Delete..."
     Style = vbYesNo + vbQuestion + vbDefaultButton1
     Title = "Daily items"
     Response = MsgBox(Msg, Style, Title, Help, Ctxt)
   If Response = vbYes Then
   rst.Delete
  rst.MoveNext
  If rst.EOF Then rst.MoveLast
   Text1.Text = rst(0)
     Text2.Text = rst(1)
     Text3.Text = rst(2)
     Text4.Text = rst(3)
     Text5.Text = rst(4)
  End If
  End Sub
 Private Sub mnedit_Click()
 Text1.Enabled = True
 Text2.Enabled = True
 Text3.Enabled = True
 Text4.Enabled = True
 Text5.Enabled = True
 tinsI = InputBox("Enter Vehicle register no", "Daily items")
 rst.MoveFirst
 If Len(tinsI) = 0 Then
 Exit Sub
 Toolbar1.Buttons(5).Enabled = False
 mnsave.Enabled = False
 Text1.Enabled = False
 Text2.Enabled = False
Text3.Enabled = False
Text4.Enabled = False
Text5.Enabled = False
End If
Do While tinsI <> rst(0)
rst.MoveNext
If rst.EOF Then
rst.MoveLast
Dim r As Variant
r = MsgBox("Vehicle not found, Try again", , Title)
Exit Sub
```

```
nd If
00p
 Text1.Text = rst(0)
 Text2.Text = rst(1)
 Text3.Text = rst(2)
 Text4.Text = rst(3)
 Text5.Text = rst(4)
Toolbar1.Buttons(5).Enabled = True
mnsave.Enabled = True
End Sub
Private Sub mnexit_Click()
cnn.Close
Unload Me
End Sub
Private Sub mnfirst_Click()
rst.MoveFirst
   Text1.Text = rst(0)
   Text2.Text = rst(1)
   Text3.Text = rst(2)
   Text4.Text = rst(3)
   Text5.Text = rst(4)
 End Sub
 Private Sub mnlast_Click()
 rst.MoveLast
    Text1.Text = rst(0)
    Text2.Text = rst(1)
    Text3.Text = rst(2)
    Text4.Text = rst(3)
    Text5.Text = rst(4)
  End Sub
  Private Sub mnnext_Click()
   rst.MoveNext
  If rst.EOF Then rst.MoveLast
     Text1.Text = rst(0)
     Text2.Text = rst(1)
     Text3.Text = rst(2)
      Text4.Text = rst(3)
      Text5.Text = rst(4)
   End Sub
   Private Sub mnpre_Click()
    rst.MovePrevious
    If rst.BOF Then rst.MoveFirst
       Text1.Text = rst(0)
```

```
nd Sub
rivate Sub mnsave_Click()
n Error Resume Next
Msg = "Update database"
Style = vbYesNo + vbQuestion + vbDefaultButton1
Title = "Daily items"
Response = MsgBox(Msg, Style, Title, Help, Ctxt)
If Response = vbYes Then
If Len(Text1.Text) \Leftrightarrow 0 Then
 rst(0) = Text1.Text
 If Text2.Text <> Null Or Text2.Text <> "" Then
    rst(1) = Text2.Text
 Elsc
    rst(1) = "Not Available"
 End If
If Text3.Text <> Null Or Text3.Text <> "" Then
     rst(2) = Text3.Text
 Else
    rst(2) = "Not Available"
 End If
 If Text4.Text <> Null Or Text4.Text <> "" Then
     rst(3) = Text4.Text
 Else
    rst(3) = "Not Available"
 End If
 If Text5.Text 	<> Null Or Text5.Text <> "" Then
     rst(4) = Text5.Text
 Else
     rst(4) = "Not Available"
  End If
  Else
    MsgBox ("Reg No required")
    Text1.SetFocus
    GoTo ending 11
  End If
  rst.Update
  Toolbar1.Buttons(5).Enabled = False
  mnsave.Enabled = False
  Text1.Enabled = False
  Text2.Enabled = False
  Text3.Enabled = False
  Text4.Enabled = False
  Text5 Enabled = False
  Else
   Text1.SetFocus
```

```
ending11:
End Sub
Private Sub mnview_Click()
Text1.Enabled = False
Text2.Enabled = False
Text3.Enabled = False
Text4.Enabled = False
Text5.Enabled = False
nextv1:
tinsI = InputBox("Enter Vehicle register no", "Daily items")
If Len(tinsI) = 0 Then Exit Sub
rst.MoveFirst
Do While tins l \Leftrightarrow rst(0)
rst.MoveNext
If rst.EOF Then
 rst.MoveLast
 GoTo nextv1
 End If
 Loop
   Text1.Text = rst(0)
   Text2.Text = rst(1)
   Text3.Text = rst(2)
    Text4.Text = rst(3)
    Text5.Text = rst(4)
 End Sub
 Private Sub Text5_KeyUp(KeyCode As Integer, Shift As Integer)
 If KeyCode = 13 Then
 Msg = "Update database"
    Style = vbYesNo + vbQuestion + vbDefaultButton1
    Title = "Daily items"
    Response = MsgBox(Msg, Style, Title, Help, Ctxt)
    If Response = vbYes Then
    If Len(Text1.Text) \Leftrightarrow 0 Then
    rst(0) = Text1.Text
    If Text2.Text <> Null Or Text2.Text <> "" Then
       rst(1) = Text2.Text
    Else
        rst(1) = "Not Available"
    End If
    If Text3.Text <> Null Or Text3.Text <> "" Then
        rst(2) = Text3.Text
    Else
        rst(2) = "Not Available"
     End If
     If Text4.Text > Null Or Text4.Text > "" Then
```

```
If Text5.Text 	<> Null Or Text5.Text <> "" Then
     rst(4) = Text5.Text
  Else
     rst(4) = "Not Available"
  End If
 Else
  MsgBox ("Reg no required")
  Text1.SetFocus
  GoTo ending2
  End If
  rst.Update
  Msg = "More..."
  Style = vbYesNo + vbQuestion + vbDefaultButton1
  Title = "Daily items"
  Response = MsgBox(Msg, Style, Title, Help, Ctxt)
  If Response = vbYes Then
  Text1.Text = ""
  Text2.Text = ""
  Text3.Text = ""
  Text4.Text = ""
  Text5.Text = ""
  Text1.SetFocus
  rst.AddNew
  ElseIf Response = vbNo Then
  cnn.Close
  Unload Me
  End If
  Else
   Text1.SetFocus
  End If
ending2:
End If
End Sub
Private Sub Text2 KeyPress(KeyAscii As Integer)
If Not (KeyAscii >= 47 And KeyAscii <= 57) And Not (KeyAscii = 8) Then
KevAscii = 0
End If
End Sub
Private Sub Toolbar1_ButtonClick(ByVal Button As MSComctlLib.Button)
Select Case Button.Index
Case 1
Text1.Enabled = True
Text2.Enabled = True
Text3. Enabled = True
```

Text4.Enabled = True

```
Text1.Text = ""
Text2.Text = ""
Text3.Text = ""
Text4.Text = ""
Text5.Text = ""
Text1.SetFocus
rst.AddNew
Case 2
Text1.Enabled = True
 Text2.Enabled = True
 Text3.Enabled = True
 Text4.Enabled = True
 Text5.Enabled = True
 tinsI = InputBox("Enter Vehicle register no", "Daily items")
 rst.MoveFirst
 If Len(tinsI) = 0 Then
 Exit Sub
 Toolbar1.Buttons(5).Enabled = False
  mnsave.Enabled = False
  Text1.Enabled = False
  Text2.Enabled = False
  Text3.Enabled = False
  Text4.Enabled = False
  Text5.Enabled = False
  End If
  Do While tins I \Leftrightarrow rst(0)
   rst.MoveNext
   If rst.EOF Then
   rst.MoveLast
   Dim r As Variant
   r = MsgBox("Vehicle not found, Try again", , Title)
   Exit Sub
   End If
   Loop
    Text1.Text = rst(4)
      Text2.Text = rst(1)
      Text3.Text = rst(2)
      Text4.Text = rst(0)
      Text5.Text = rst(3)
    Toolbar1.Buttons(5).Enabled = True
```

Case 3

```
nextv1:
tinsI = InputBox("Enter Vehicle register no", "Daily items")
If Len(tinsI) = 0 Then Exit Sub
rst.MoveFirst
Do While tins I \Leftrightarrow rst(0)
rst.MoveNext
If rst.EOF Then
rst.MoveLast
GoTo nextv1
End If
Loop
Text1.Text = rst(4)
  Text2.Text = rst(1)
  Text3.Text = rst(2)
  Text4.Text = rst(0)
  Text5.Text = rst(3)
Case 4
Text1.Enabled = False
Text2.Enabled = False
Text3.Enabled = False
Text4.Enabled = False
Text5.Enabled = False
nextv2:
tinsI = InputBox("Enter Vehicle register no", "Daily items")
If Len(tinsI) = 0 Then Exit Sub
rst.MoveFirst
Do While tins l \Leftrightarrow rst(0)
rst.MoveNext
If rst.EOF Then
rst.MoveLast
GoTo nextv2
End If
Loop
 Text1.Text = rst(4)
  Text2.Text = rst(1)
  Text3.Text = rst(2)
  Text4.Text = rst(0)
  Text5.Text = rst(3)
  Msg = "Confirm Delete..."
  Style = vbYesNo + vbQuestion + vbDefaultButton1
  Title = "Daily Items to be changed"
  Response = MsgBox(Msg, Style, Title, Help, Ctxt)
If Response = vbYes Then
rst.Delete
rst.MoveNext
If rst.EOF Then rst.MoveLast
  Text1.Text = rst(0)
  Text2.Text = rst(1)
  Text3.Text = rst(2)
  Text4.Text = rst(3)
  Text5.Text = rst(4)
```

End If

On Error Resume Next

ending1:

```
Msg = "Update database"
Style = vbYesNo + vbQuestion + vbDefaultButton1
Title = "Daily items"
Response = MsgBox(Msg, Style, Title, Help, Ctxt)
If Response = vbYes Then
If Len(Text1.Text) \Leftrightarrow 0 Then
rst(0) = Text1.Text
If Text2.Text ⇔ Null Or Text2.Text ⇔ "" Then
   rst(1) = Text2.Text
Else
   rst(1) = "Not Available"
End If
If Text3.Text > Null Or Text3.Text > "" Then
    rst(2) = Text3.Text
 Else
    rst(2) = "Not Available"
 End If
 If Text4.Text <> Null Or Text4.Text <> "" Then
     rst(3) = Text4.Text
 Else
    rst(3) = "Not Available"
 End If
 If Text5.Text <> Null Or Text5.Text <> "" Then
    rst(4) = Text5.Text
 Else
    rst(4) = "Not Available"
 End If
 Else
    Text1.SetFocus
    GoTo ending1
 End If
  rst.Update
  Toolbar1.Buttons(5).Enabled = False
  mnsave.Enabled = False
  Text1.Enabled = False
  Text2. Enabled = False
  Text3.Enabled = False
  Text4.Enabled = False
  Text5.Enabled = False
  Else
   Text1.SetFocus
  End If
```

```
Text2.Text = rst(1)
  Text3.Text = rst(2)
  Text4.Text = rst(3)
  Text5.Text = rst(4)
Case 8
rst.MoveLast
  Text1.Text = rst(0)
  Text2.Text = rst(1)
  Text3.Text = rst(2)
  Text4.Text = rst(3)
  Text5.Text = rst(4)
Case 9
rst.MovePrevious
If rst.BOF Then rst.MoveFirst
   Text1.Text = rst(0)
   Text2.Text = rst(1)
   Text3.Text = rst(2)
   Text4.Text = rst(3)
   Text5.Text = rst(4)
 Case 10
 rst.MoveNext
 If rst.EOF Then rst.MoveLast
    Text1.Text = rst(0)
    Text2.Text = rst(1)
    Text3.Text = rst(2)
    Text4.Text = rst(3)
    Text5.Text = rst(4)
  Case 12
  cnn.Close
  Unload Me
  End Select
```

2. User Management coding

End Sub

The addition of users is similar to the addition of vehicles. The only caution is that the password should be confirmed and the user can assign only one level of administration.

3. Graph Generator coding

Option Explicit
Dim cnn As New ADODB.Connection, rst As New ADODB.Recordset, cmd As ADODB.Command, rst2 As New ADODB.Recordset
Dim Str As String, strsql As String, strsql1 As String

Private Sub Combo2 Click() If Combo2.Text = "Bar" Then MSChart1.chartType = VtChChartType2dBar ElseIf Combo2.Text = "3D Bar" Then MSChart1.chartType = VtChChartType3dBar MSChart1.chartType = VtChChartType2dPie End If End Sub Private Sub Command1 Click() rst.MoveFirst Do While Text1. Text \Leftrightarrow rst(0) rst.MoveNext If rst.EOF Then rst.MoveLast MsgBox ("Vehicle not found, Enter Again") Text1.Text = "" Text1.SetFocus Exit Sub End If Loop rst2.Open "select * from monthlyreport where regno= " & "" & Text1.Text & " and month = " & "" & Combol. Text & "'", cnn If rst2.EOF = True ThenMsgBox "Required month not available" Combo1.SetFocus rst2.Close Exit Sub End If For i = 1 To 7 MSChart1.Column = iMSChart1.Data = rst2(i)Next i rst2.Close End Sub Private Sub Command2 Click() cnn.Close Unload Me End Sub Private Sub Form Load() Command1.Picture = ImageList1.ListImages(1).Picture Command2.Picture = ImageList1.ListImages(3).Picture str = App.Path & "\vehicle.mdb" strsql = "select * from monthlyreport" cnn.Provider = "Microsoft.Jet.OLEDB.3.51" cnn.Open str, "admin" rst. Open strsql, cnn, adOpenKeyset, adLockOptimistic

End Sub

4. Sample codes for Report Generators

Dim cnn As New ADODB.Connection, rst As New ADODB.Recordset, cmd As ADODB.Command, rst2 As

New ADODB.Recordset

Dim str As String, strsql As String, strsql1 As String

Dim Msg, Style, Title, Help, Ctxt, Response, MyString

Public tinsI As Variant, sasIII As Variant

Dim entry As Integer, report As Integer, modi As Integer

DataEnvironment1.rsCommand2.Open "select * from dailyreport where regno=" & "" & Text1.Text & "", cnn,

adOpenDynamic, adLockOptimistic

rotdaily.Show

End Sub

DataEnvironment1.rsCommand3.Open "select * from monthlyreport where regno=" & "" & Text1.Text & "", Private Sub Command3_Click()

cnn, adOpenDynamic, adLockOptimistic

rptmonthly.Show

End Sub

Private Sub Command5_Click()

DataEnvironment1.rsCommand4.Open "select * from sparepart where regno=" & """ & Text1.Text & """, cnn,

adOpenDynamic, adLockOptimistic

rptsparepart.Show

End Sub

Private Sub Command6_Click()

DataEnvironment1.rsCommand5.Open "select * from history where reg_no= " & """ & Text1.Text & """, cnn,

adOpenDynamic, adLockOptimistic

sparepartschanged.Show

End Sub

Private Sub Command7_Click()

DataEnvironment1.rsCommand5.Open "select * from dailyreport where regno=" & "" & Text1.Text & "", cnn,

adOpenDynamic, adLockOptimistic

Sparepartschangeddaily.Show

End Sub

Private Sub Command9 Click()

cnn.Close

Unload Me

End Sub

Private Sub Form Load()

str = App.Path & "\vehicle.mdb"

cnn.Open (str)

Command1.Picture = ImageList2.ListImages(2).Picture Command2.Picture = ImageList2.ListImages(9).Picture Command3.Picture = ImageList2.ListImages(10).Picture Command4.Picture = ImageList2.ListImages(12).Picture Command5.Picture = ImageList2.ListImages(15).Picture Command6.Picture = ImageList2.ListImages(5).Picture Command7.Picture = ImageList2.ListImages(13).Picture Command8.Picture = ImageList2.ListImages(14).Picture Command9.Picture = ImageList2.ListImages(1).Picture End Sub

Private Sub Command1_Click()

DataEnvironment1.rsCommand1.Open "select * from History where reg_no=" & "'" & Text1.Text & "'", cnn, adOpenDynamic, adLockOptimistic rpthistory.Show

End Sub

TDDFMNTY_C

APPENDIX - C

HTML and ASP user interfaces

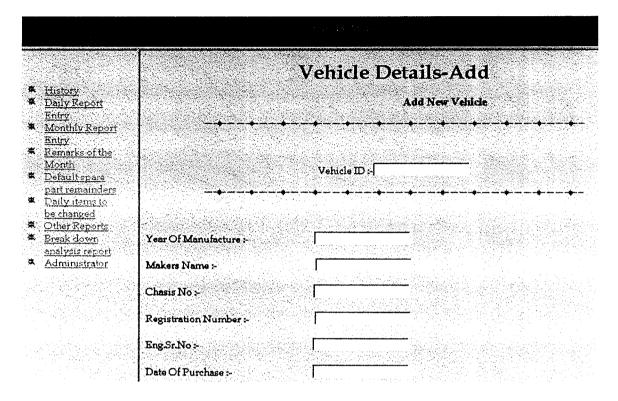
Administrator Screen

	Administrator Area	
	AND CONTRACT OF THE CONTRACT O	Delica de la Real de Partir de Maria de la California de la California de la California de la California de la
History Daily Report	Section and the section of the secti	
Entry.	Restricted Entry	
Monthly Report	1,000,1007	
Entry		esperio de Calaba de Calabado
Remarks of the Month		
Defaultspare		
part remainders	#####################################	
Daily items to	물리부족과 보고 그림 교통은 중요를 잘 먹는 시기를 다	
<u>be changed</u>	Members	
Other Reports Break down	vehides	
analysis report		
Administrator	문화 경찰에 되고 보는 바이를 중 없는 것도 되었다.	
하면 얼마 얼마 됐다. 하는 얼마 나는 그리고 있다고 있다.		

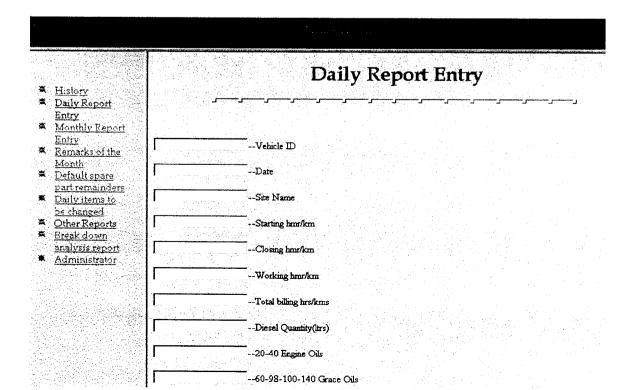
Default Spare part Reminders

		004 0 7
	DEFAULT SPARE PART REMAINDERS	
# History		
A Daily Report	주로 보고 있는 사람들은 생각이 들어 있는데 이번 사람들이 되었다. 그 사람들이 되었다. 	
Entry Monthly Report	그렇게 한 근무를 하는 것이 하고 말을 만든다는 것이다. 그 그 그 그 그	
Entry	경우 보床 한다면 복인 경기 없는 그 그 말을 받을 때 그가 그 있는데 그	
Remarks of the	된다. 하나 사람들은 마르 <u>게 하고 얼굴하고</u> 하는데 모든데 모든데	
Month 5 14 word	vehicle ID	
□ Default spare □ part remainders	(1945년 1945년 1945년 1944년 1944년 1947년 1	
# Daily items to	starting km- !	
be changed		
<u>Other Reports</u>	Changing km-	
★ Break down analysis report	Spare part name-	
anarysis rapyr.	BRITER	

Adding Vehicles to the Database



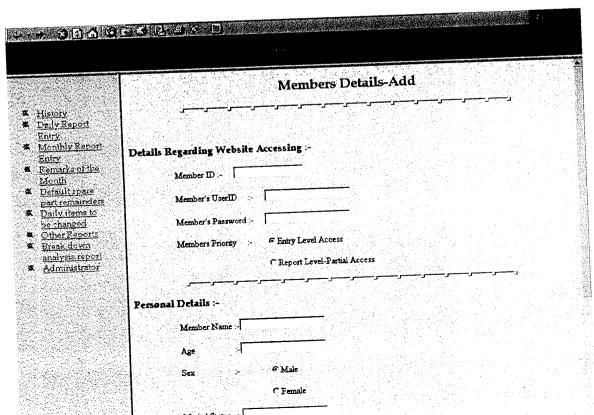
Daily Report Entry



Daily Items to be Changed

	DAILY ITEMS TO BE CHANGED
K <u>History</u> K <u>Daily Report</u>	
Entry. Monthly Report	Yehicle ID-
Entry Remarks of the Month	Oi-
Default spare part remainders	Oil Fiker-
Maily items to be changed	Diesel Filter
★ Other Reports ★ Break down	
analysis report	
★ Administrator	
	통하는 경험 경험 경험 등 기업을 받는 것이 되었다. 그 전 경험 전

Adding new Members



APPENDIX-D

APPENDIX - D

HTML and ASP code

```
Vehicles - Add
<html>
<head>
<title>History of the Vehicle</title>
</head>
<body background=" themes/expeditn/exptextb.jpg" bgcolor="#FFFFF" text="#000000"
link="#993300" vlink="#666600" alink="#CC3300"><!--mstheme--><font face="Book Antiqua,
Times New Roman, Times">
<b><blink><font face="Transit511 BT" size="5" color="#00CCFF">History
Of the Vehicle</font></blink></b>
<b><font face="Times New Roman" size="5" color="#800000"><bli>blink>
<marquee behavior="slide">Add New Vehicle</marquee>
</blink></font></b>
<form method="post" action="history_add.asp">
 <input type="text" name="T1" size="20">--<font face="Times New Roman"><b>Vehicle
 ID</b></font>
 <img src="_themes/expeditn/exphorsa.gif" width="600" height="10">
 <font face="Times New Roman" size="3"><b><input type="text" name="T2" size="20">--
 Year Of Manufacture</b></font>
 <font face="Times New Roman" size="3"><b><input type="text" name="T3" size="20">---
Makers
 Name</b></font>
 <font face="Times New Roman" size="3"><b><input type="text" name="T4" size="20">--
Chassis
 Number</b></font>
 <font face="Times New Roman" size="3"><b><input type="text" name="T5" size="20">---
 Engine
 Serial Number</b></font>
  <font face="Times New Roman" size="3"><b><input type="text" name="T6" size="20">--
 Registration
 Number</b></font>
  <font face="Times New Roman" size="3"><b><input type="text" name="T7" size="20">--
 Date
```

```
<font face="Times New Roman" size="3"><b><input type="text" name="T5" size="20">--
Engine
 Serial Number</b></font>
 <font face="Times New Roman" size="3"><b><input type="text" name="T6" size="20">--
Registration
 Number</b></font>
  <font face="Times New Roman" size="3"><b><input type="text" name="T7" size="20">--
Date
  Of Purchase </b></font>
  <font face="Times New Roman" size="3"><b><input type="text" name="T8" size="20">---
Hand
  of Vehicle</b></font>
  <font face="Times New Roman" size="3"><b><input type="text" name="T9" size="20">--
  run at Time Of Purchase</b></font>
   <font face="Times New Roman" size="3"><b><input type="text" name="T10" size="20">-
 -Last
   Service Details</b></font>
   <font face="Times New Roman" size="3"><b><input type="text" name="T11" size="20">-
  -Equipments
   Changed During Last Service</b></font>
   <font face="Times New Roman" size="3"><b><input type="text" name="T12" size="20">-
  -Equipments
   Supposed to be changed but not</b></font>
       <font face="Times New Roman"
  size="3"><b>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
  nbsp; \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \&
  bsp;        
    changed During Last Service</b></font>
    <font face="Times New Roman" size="3"><b><input type="text" name="T13"</pre>
   size="20">--Next
    Service Date</b></font>
   <img src="_themes/expeditn/exphorsa.gif" width="600" height="10">
    <input type="reset" value="Reset" name="B1"><input type="submit"</pre>
   value="Save" name="B2">
      
   </form>
    </body>
    </html>
    History add.asp
```

<%

T1=TRIM(request("T1"))
T2=TRIM(request("T2"))
T3=TRIM(request("T3"))
T4=TRIM(request("T4"))

```
T7=TRIM(request("T7"))
T8=TRIM(request("T8"))
T9=TRIM(request("T9"))
T10=TRIM(request("T10"))
T11=TRIM(request("T11"))
T12=TRIM(request("T12"))
T13=TRIM(request("T13"))
%>
<html>
<head><title>Add Products</title></head>
<body bgcolor="gray">
<%
set con=server.createobject("ADODB.Connection")
con.open "accessDSN1"
sqlstring="insert into history values( " &_
T1 & ", " &
T2 & ", " &_
" " & T3 & ", " &
T4 & ", " &
" " & T5 & "", " &
""&T6&","&
""&T7&","&
T8 & ", " &
T9 & ", " &
" " & T10 & "', " &
" " & T11 & ". " & ¯
" " & T12 & ", " &
" " & T13 & "')"
 con.execute sqlstring
 con.close
 %>
 <center>
 <%=T1%>was added to the database
 </center>
 >
 <a href="123.asp">Back</a>
 </body>
 </html>
```

Administrator - Add

```
Administrator - Modify
<html>
<head>
<title>Vehicle Details</title>
</head>
<body background="_themes/expeditn/exptextb.jpg" bgcolor="#FFFFFF" text="#000000"</pre>
link="#993300" vlink="#666600" alink="#CC3300"><!--mstheme--><font face="Book Antiqua,
Times New Roman, Times">
<h1 align="center">Vehicle Details</h1>
<h3 align="center"><font face="Times New Roman" size="4"
 color="#008080"><b>Modification</b></font></h3>
 <hr align="center">
 <form method="POST" action="adm_vehicles_modify_1.asp">
   
  Vehicle ID :-<input type="text" name="T1" size="20"><input</pre>
 type="submit" value="Get Details" name="B3">
  <hr align="center">
 </form>
 </body>
 </html>
 adm vehicles modify l.asp
  <%
  t1=request("T1")
  set Con=server.createObject("ADODB.Connection")
  Con.Open "accessDSN1"
  set rs=server.CreateObject("ADODB.Connection")
  'rs. ActiveConnection = Con
  'rs.CursorType=3
  salstring= "select * from history where vehicle_id=" &t1
```

```
t1=rs("vehicle id")
t2=rs("year of manufacture")
t3=rs("makers name")
t4=rs("chasis no")
t5=rs("eng sr no")
t6=rs("reg no")
t7=rs("date of purchase")
t8=rs("hand of vehicle")
t9=rs("kms_run_during_purchase")
t10=rs("last_service_details")
tl1=rs("equipment changed")
t12=rs("equipment not changed")
t13=rs("next service date")
rs.close
%>
<html>
<head>
<title>Vehicle Details</title>
</head>
<body background="_themes/expeditn/exptextb.jpg" bgcolor="#FFFFF" text="#000000"
link="#993300" vlink="#666600" alink="#CC3300"><!--mstheme--><font face="Book Antiqua,
Times New Roman, Times">
<h1 align="center"><!--mstheme--><font color="#660033">Vehicle Details<!--mstheme--
></font></h1>
<h3 align="center"><!--mstheme--><font color="#660033"><font face="Times New Roman"
size="4" color="#008080"><b>Changes</b></font><!--mstheme--></font></h3>
<!--msthemeseparator--><img src="_themes/expeditn/exphorsa.gif"
width="600" height="10">
<form method="post" action="adm vehicles modify 2.asp">
  
 Vehicle ID :-<input type="text" name="t1"</pre>
value="<%=server.HTMLEncode(t1)%>" size="20">
 <!--msthemeseparator--><img src=" themes/expeditn/exphorsa.gif"
width="600" height="10">
  
 Year Of Manufacture
```

```
  <input type="text" name="t2" value="<%=server.HTMLEncode( t2 ) %>" size="20">
```

Makers Name

<input type="text" name="t3" value="<%=server.HTMLEncode(t3) %>" size="20">

Registration Number

 $\ \&nbs$

<input type="text" name="t4" value="<%=server.HTMLEncode(t4) %>" size="20">

Eng.Sr.No

<input type="text" name="t5" value="<%=server.HTMLEncode(t5) %>" size="20">

Chasis No

<input type="text" name="t6" value="<%=server.HTMLEncode(t6) %>" size="20">

Date Of Purchase

<input type="text" name="t7" value="<%=server.HTMLEncode(t7) %>" size="20">

Hand Of Vehicle

Support to manifesti nomenitori velvenito (20/ - convertitati Encode (12) 9/ \"

```
t7=TRIM(request("t7"))
t8=TRIM(request("t8"))
t9=TRIM(request("t9"))
t10=TRIM(request("t10"))
tll=TRIM(request("tll"))
t12=TRIM(request("t12"))
t13=TRIM(request("t13"))
sqlstring="update history set " &_
"vehicle id=" & t1 & "," &
"year_of_manufacture=" & t2 & "," &_
"makers name="" & t3 & ""," &_
"chasis no=" & t4 & "," &
"eng sr no=" & t5 & "," & _
"reg_no="" & t6 & ""," &_
"date_of_purchase="" & t7 & ""," &_
"hand of vehicle=" & t8 & "," &
"kms_run_during_purchase=" & t9 & "," &_
 "last_service_details="" & t10 & ""," &_
 "equipment_changed="" & t11 & ""," &
 "equipment_not_changed=" & t12 & "," &_
 "next service date="" & t13 & "" " &
 "where vehicle id=" & t1
 con.execute sqlstring
 con.close
 %>
 <html>
 <head><title>Add Products</title></head>
 <body bgcolor="gray">
 <center>
 <%=T1%> was updated in the database
  </center>
  <a href="modify_vehicles.asp">Back</a>
  </body>
  </html>
```

<u>Administrator - Delete</u>

<html>

```
<head>
<title>Vehicle Details</title>
</head>
<body background="_themes/expeditn/exptextb.jpg" bgcolor="#FFFFFF" text="#000000"</pre>
link="#993300" vlink="#666600" alink="#CC3300"><!--mstheme--><font face="Book Antiqua,
Times New Roman, Times">
<h1 align="center"><!--mstheme--><font color="#660033">Vehicle Details<!--mstheme--
></font></h1>
<h3 align="center"><!--mstheme--><font color="#660033"><font face="Times New Roman"
size="4" color="#008080"><b>Deletion</b></font><!--mstheme--></font></h3>
<!--msthemeseparator--><img src="_themes/expeditn/exphorsa.gif"
width="600" height="10">
<form method="POST" action="adm_vehicle_delete.asp">
  
 Vehicle ID :-<input type="text" name="T1" size="20">
  <!--msthemeseparator--><img src="_themes/expeditn/exphorsa.gif"
 width="600" height="10">
   
  <input type="submit" value="Delete" name="B4"><input type="reset"</pre>
 value="Reset" name="B5">
 </form>
 <!--mstheme--></font></body>
 </html>
 adm vehicle delete.asp
 <%
 t1=request("T1")
  set con=server.createobject("ADODB.Connection")
  con.open "accessDSN1"
  sqlstring="delete * from history where vehicle_id=" & tl
  con.execute sqlstring
  %>
  <html>
  <head><title>Delete Vehicle !!!</title></head>
  <body bgcolor="gray">
  <center>
```

```
<%=T1%> vehicle was removed to the database
</center>
<a href="delete vehicles.asp">Back</a>
</body>
</html>
History reports
<html>
<head>
<title>HISTORY REPORT</title>
</head>
<body background="_themes/indust/indtextb.jpg" bgcolor="#FFFFF" text="#000000"</pre>
link="#3366CC" vlink="#666666" alink="#996600"><!--mstheme--><font face="Trebuchet MS,
Arial, Helvetica">
<!--msthemeseparator--><img src=" themes/indust/indhorsa.gif" width="600"
height="10">
<h2 align="center"><!--mstheme--><font color="#333399">REPORTS<!--mstheme--
></font></h2>
<!--msthemeseparator--><img src="_themes/indust/indhorsa.gif" width="600"
height="10">
 
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width="600" height="10">
  
 <input type="submit" value="Generate" name="B1"><input type="reset"</pre>
value="Reset" name="B2">
</form>


<!--mstheme--></font></body>
```

Members Entry

<hr>

```
<%
t1=request("T1")
t2=request("T2")
set Con=server.createObject("ADODB.Connection")
Con. Open "accessDSN1"
set rs=server.CreateObject("ADODB.Connection")
sqlstring= "select * from members where member_uid="" &t1 & """
set rs=Con.Execute( sqlstring )
 t3=rs("member_uid")
 t4=rs("member pwd")
 t5=rs("member priority")
 rs.close
 if cSTR(t2)=cSTR(t4) and t5=1 then
 %>
 <title>Restricted Area</title>
 </head>
 <body background="_themes/indust/indtextb.jpg" bgcolor="#FFFFF" text="#000000"</pre>
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<%
 else if cSTR(t2)=cSTR(t4) and t5=2 then
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Bibliography

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- 5. www.mcp.com
- 6. www.earthmoverssupply.com

