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INTERACTIVE BUSINESS OVER THE WEB

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A PROJECT REPORT

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Department of Computer Applications

Bonafide Certificate

Certified that this project report titled **INTERACTIVE BUSINESS OVER THE WEB** is a bonafide work of **Mr.P.Manikandan (Reg No. 71203621024)** who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

C. Rajan Krupa
GUIDE

HEAD OF THE DEPARTMENT

Submitted for the University Examination Held on 30/06/2006

30/6/06
Internal Examiner

30/6/06
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HONEYBEE TECHNOLOGIES
Unique Solution Providers

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15TH JUNE,2006

TO WHOM SOEVER ITMAY CONCERN

This is to certify that Mr.P.MANIKANDAN, Roll No. 03MCA25 Master of Computer Application, final year student of KUMARAGURU COLLEGE OF TECHNOLOGY has completed his project entitled "Interactive Business over the Web" In our concern from January '06 till June'06.

During the period the conduct and attendance found to be good.

Authorized Signatory

R.ANANTHA KANNAN
(DIRECTOR)

ABSTRACT

The main Objective of this project **Interactive Business over the Web** is to deliver relevant information of the services provided in the embedded company. This system very useful for students and others to register and the clients ordering the products.

Major areas of this system focus on service automated processes, personal information gathering and processing, and service. It attempts to integrate and automate the various customer-serving processes within a company.

Each user (student, trainee, and client) is given a unique username and password. By connecting the internet thereby to the portal and giving the appropriate username and password, the system then moves on to the information directory, where the user gets the necessary information. This System believes that it would be an ideal platform to provide crucial referential nodes to various aspects of users, apart from maintaining extensive databases on them.

The technology growth in computers has thrown up a great deal of new possibilities to all the fields. This System is proposed to work over the internet. We can have a centralized access of information from anywhere.

The document discuss the advanced features of this project like online test, online shopping, Registration, Mail System (MS), Knowledge Transfer System (KTS). It describes the different modules of the system and its features.

Registration Module accepts HBT ID, Password and other necessary information from the user and checks for the validation. If the users entered valid information then the system stores that information to the Database.

In online test module users must log into this system with Hall ticket Number, HBT ID and password. If it is valid they can attend the test else the error message will display. In online shopping client must log into this system with HoneybeeID and Password. If it is valid they can order the products that information is stored into order table else the error message will display. They can get the product information from the Product table.

The system was developed in ASP.NET and SQL Server 2000 (Backend).

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I would like convey my sincere thanks to **Mr.R.Anantha Kannan MCA**, Managing Director, Honeybee Technologies, and Coimbatore for his support, Friendship and experience from which I have greatly benefited.

Finally I thank **my lovable parents and friends** who helped me in many ways during the course of project and have made it great success.

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LIST OF TABLES AND FIGURES

LIST OF SYMBOLS, ABBREVATIONS AND NOMANCLATURE

SQL	-	Structured Query Language
MS	-	Mail System
KTS	-	Knowledge Transfer System

CHAPTER 1

INTRODUCTION

1.1 OVERVIEW OF PROJECT

1.1.1 INTERACTIVE BUSINESS OVER THE WEB

Interactive Business over the Web focus on service automated processes, personal information gathering and processing, and service. It attempts to integrate and automate the various customer-serving processes within a company.

Modules in Interactive Business over the Web are:

- Login Processing System. (LPS)
- Student Information Processing. (SIP)
- Trainee Monitoring System. (TMS)
- Client Information Processing. (CIP)
- Admin Management System.(AMS)
- Data Entry System. (DES)
- Online Test
- Online Shopping

1.1.2 Project Scope

- Access all details at a centralized location.
- Quickly search for a variety of information.
- Enhance increased efficiency by eliminating redundant data.
- Automate paper work and access client and others information easily.
- Send mails within a company thru Mail System.
- Share their ideas thru Knowledge Transfer System.

1.2 ORGANIZATION PROFILE

"HONEY BEE TECHNOLOGIES" is the brainchild of two well Educated, Qualified, Experienced Technocrats.

The company was formed and established not long ago, but the seeds were sown almost a decade ago. After completing formal education in Engineering, Science and Electronics, both the promoters – as their thoughts were akin – joined their hands together to create "Honeybee Technologies"

Both had fascination for "Embedded system" and both mastered this wing, in their own ways. After careful analysis of the emerging trends in the software, IT and ITES, the promoters reasoned that "Embedded system" has enormous scope and phenomenal potential. This potential had to be harnessed and nurtured. Their unflinching dedication, to the industry and with thirst for perfection to the smallest details, will definitely pave the way to the unexplored territories and lift the company to higher planes.

HONEYBEE Technologies has a slogan.

"Unique Solution Providers"

This also happens to be the USP of the company, Timely implementation of the projects, untiring Research and Development in Embedded System; Dedicated service to the industry.....

..... These are the watchwords of HBT.

The **objectives** - though many - can easily be summarized as below;

- **CREATING** (embedded system) qualified professionals for the electronic industry.
- **PROVIDING** (the best possible) Technical service to all kinds of electronic industries.

Over a period of time the company forayed into different activities connected with "Embedded system" and finally decided to specialize in it.

Hence the following areas were chosen after much deliberation.

(a) As the promoters are young and brimming with ideas **Research and Development** was earmarked as one area.

There are quite a few products which need to be improved upon in either performance/resultant factor. Either new products are to be launched or existing products has to be improved and updated to keep up with the development and the ever increasing consumer taste/demand.

(b) This R&D has natural corollary and that is, new **Industrial projects**.

HBT is fairly successful in taking up new projects and completing them within stipulated time because of the core competence.

HBT is proud to be associated with a few leading Companies/Organization and has provided solution to those discerning clientele.

(c) Many Upcoming as well as established organizations actively engaged in Embedded Systems, found, while growing and expanding, they needed specialized and specifically trained manpower.

It is sad to note, without any intention to hurt, that today's educational system has a lot, left to be desired. Though we have hundreds and thousands of young and brilliant minds, those are not educated and trained and properly channels so that they become, rationally/scientifically thinking brains.

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While every year our colleges and universities are churning out "Graduates" by thousands, their depth of knowledge or understanding or mastering of the electives are woefully inadequate.

Gone are the days that a graduate was looked up with respect. A graduation has not only become desired but has become minimum qualification. And a graduate though with good academic records and grades, finds himself stranded in job market.

The reasons are many and one of them is LACK of specialization

But ultimately it boils down to one painful factor. That is **"Employability"** many or almost all the prospective employers look for this factor. This lacuna can be overcome only by acquiring additional training or certification.

While many in embedded system field, would like to hire Engineering graduates with electronics base, the newly hired employees can not be entrusted with projects immediately. A lot of screening, sifting, securitization and in-plant training are something the employer would detest.

This extra advantage or edge has to be added to a normal graduate. Having found this gaping chasm, HBT has created a separate Placement and Training division. Here after a systematic selection the graduates are trained in embedded system with a good number of hours in practical apart from theoretical lessons.

After successful completion of the systematic training at HBT, each and every candidate has entered into gainful employment in organizations involved in Embedded System. This division of HBT has carved a niche and increased enrolment shows the concentrated efforts of the HBT to this cause.

CHAPTER 2

SYSTEM REQUIREMENT AND SPECIFICATION

The system requirement and specification provided here are used in the development of this system.

2.1 HARDWARE REQUIREMENTS

Processor	:	Intel Pentium III 800 MHz
Primary Memory (RAM)	:	256 MB
Secondary Memory (Hard disk)	:	40 GB
Monitor	:	Samsung, COLOR, 15inch
Display card	:	SVGA
Mouse	:	Logitech
Keyboard	:	Samsung Standard 101 Keys

2.2 SOFTWARE REQUIREMENTS

Operating System	:	Windows XP and above
Language	:	ASP.NET 2.0(VB)
Back-End	:	MICROSOFT SQL-SERVER 2000.
Server	:	IIS
Browser	:	Internet Explorer, Netscape, Opera

2.3 SOFTWARE OVERVIEW

Web Forms pages are built with ASP.NET technology. ASP.NET is a unified Web platform that provides all the services necessary for you to build enterprise-class applications.

ASP.NET, in turn, is built on the .NET Framework, so the entire framework is available to any ASP.NET application. Your applications can be authored in any language compatible with the common language runtime, including Microsoft Visual Basic, Visual C#, and JScript .NET.

ASP.NET Page Framework and the Web Forms Page

The ASP.NET page framework is a programming framework that runs on a Web server to dynamically produce and manage Web Forms pages. In Visual Studio, Web Forms provides a forms designer, editor, controls, and debugging, which together allow you to rapidly build server-based, programmable user interfaces for browsers and Web client devices.

Web Forms pages run on any browser or client device. However, you can design your Web Forms page to target a specific browser, such as Microsoft® Internet Explorer 5, and take advantage of the features of a specific browser or client device. Within Web Forms pages you can work with HTML elements using properties, methods, and events. The ASP.NET page framework removes the implementation details of the separation of client and server inherent in Web-based applications by presenting a unified model for responding to client events in code that runs at the server.

State Management Facilities

ASP.NET provides intrinsic state management functionality that allows you to save and manage application-specific, session-specific, and developer-defined information. This information can be independent of any controls on the page. It can

be shared between pages, such as customer information or the contents of a shopping cart.

Application Events

ASP.NET allows you to include application-level event-handling code in the optional global.asax file. You can use application events to manage application-wide information and perform orderly application startup and cleanup tasks.

Security

When an ASP.NET application runs, it executes in the context of a special local user on the Web server, called ASPNET, with limited permissions. This enhances the security of your Web application code by restricting its access to Windows resources and processes.

Overview of SQL SERVER 2000

A database is similar to a data file in that it is a storage place for data. Like a data file, a database does not present information directly to a user; the user runs an application that accesses data from the database and presents it to the user in an understandable format.

Database systems are more powerful than data files in that data is more highly organized. In a well-designed database, there are no duplicate pieces of data that the user or application must update at the same time. Related pieces of data are grouped together in a single structure or record, and relationships can be defined between these structures and records.

Although there are different ways to organize data in a database, relational databases are one of the most effective. Relational database systems are an application of mathematical set theory to the problem of effectively organizing data. In a relational database, data is collected into tables (called relations in relational theory).

Relational database theory defines a process called normalization, which ensures that the set of tables you define will organize your data effectively.

CHAPTER 3

SYSTEM ANALYSIS

System Analysis is the process of understanding a problem domain and the user requirements for the purpose of developing a computer application system to serve the needs of the users.

3.1 EXISTING SYSTEM

The existing system was maintained and serviced manually.

The drawbacks are,

- It overloads the work of human resource management.
- Decrease the quality of the people.
- Hard to control.
- Difficult to maintain.
- Difficult to provide services.

3.2 PROPOSED SYSTEM

The proposed system is developed using ASP.NET and MICROSOFT SQL SERVER 2000 as database. It will maintain and serviced thru online.

The features are,

- The student and trainee will be selected thru online test.
- The embedded products are Buy/Sell thru online.
- Users are send mail thru Mail System (MS).
- Share their ideas thru Knowledge Transfer System (KTS).
- All the peoples with in the company they can maintain their profile and account thru online.

CHAPTER 4

SYSTEM DESIGN

System design is the most creative and challenging phase in the life cycle of system development. The first step to determine is what input data is needed to form the system and the database that has to be designed should meet the requirement of the proposed system. The next step is to determine how the output is produced and in what format.

4.1 INPUT DESIGN

Input screen must be designed, in such a way to give easy way navigation throughout the screen, without violation of the input validation. Input design is the process of converting the user originates inputs into a computer-based format. The goal of the input design is to make the data entry easier, logical and free from error. Errors in the input data are controlled by the input design by setting field level validations.

4.2 OUTPUT DESIGN

The output design has been done in this project by screen or by hard copies. Output design aims at communicating the results of the processing to the users. So that the results of the processing should be communicated to the users in a clean form. Effective output design will improve the clarity and performance of output. Sample Screens are shown in appendix.

The output generation is aesthetic looking and presented in a clear manner. This allows to analyses all or at least a large number of related data at the same time.

4.3 ARCHITECTURE DESIGN

Architectural design is concerned with refining the conceptual design of the system , identifying internal processing functions, decomposing high level functions

into sub functions, defining internal data streams and data stores and establishing relationships and interconnections among functions, data streams and data stores.

4.3.1 Interactive Business Over the Web – Module Overview

It consists of eight modules:

- Login Processing System. (LPS)
- Student Information Processing. (SIP)
- Trainee Monitoring System. (TMS)
- Client Information Processing. (CIP)
- Admin Management System.(AMS)
- Data Entry System. (DES)
- Online Test
- Online Shopping

Login Processing System. (LPS)

This module accepts HBT ID, Password and other necessary information from the user and checks for the validation. If the users entered valid information then the system stores that information to the SignmeUp Table. If the user is new to the system then it will guide them to SignmeUp process.

SignmeUp process contains three divisions.

Student, Trainee and Client can feed their details to Student Form, Trainee Form, and Client Form respectively. Then the details are stored into appropriate tables. After the admin process the students, Trainees and Clients may be accepted or rejected. If the users are accepted then admin will provide unique HBT ID for the accepted user and the system automatically provide random password for the first use. These details are automatically sent to users email ID with the password manager portal address. This portal is used to change the random password to

users specified password. In this Selection process the online test is conducted for students and trainees not for Client. Based on the online test result the students and trainees are selected for Honeybee.

Student Information Processing. (SIP)

Student sub system is used for managing profiles and accounts. Posting Feedback, Access online tutorials, applying for Value Added Seminars, Sending general information thru KTS and Sending mail with in the company.

First the user enters the HBT ID & Password if it is correct then the system will do the task what the user specifies. HBTID and Password values are stored in the Login table. They can manage their profile. Profile management means they can change their E-Mail Id, password, age, personal details, and etc. and also they can manage their account management. Then the existing values are updated by the new values after the user confirmation.

Account management means they can pay their fees thru Online, check their status of the fees details; their mode of payment and classes details. They can also post their own idea and general information thru Knowledge Transfer System (KTS). That information is stored in KTS table.

They can also access the online tutorials. The tutorials are already dumped in the server. They can access those tutorials thru specified user interface. They can apply for Value Added Seminars. And the new seminar information will be intimated thru main page of every user. If the user login to the system the system automatically gets the values from the appropriate table .The user would initiate their participation by posting their interest in a suitable form. The admin will check the applied students and send the approval information to appropriate students. Every student can send their mail with in the company via Mail System (MS).They can send their feedback to selected trainees, and admin. If the user wants to post feedback then the system will guide them to address book page. Because the students will post their feedback to selected trainees so that they can choose the trainees ID thru Addressbook. Password manager process is used to change their old password to new password. First, the user will enter the old password; if it is

correct then they will allow to enter the new password. Finally the old password is replaced by the new password.

Trainee Monitoring System. (TMS)

This system is used for managing profiles and accounts and they can apply for placement activities. Profile management means they can change their E-Mail Id, password, age, personal details, and etc. Then the existing values are updated by the new values after the user confirmation. They can also access the online tutorials. The tutorials already dumped in the server. They can access those tutorials thru specified user interface. They can apply for Value Added Seminars and Placement. And the new seminar information and Placement information will be intimated thru main page of every user. If the user login to the system the system automatically gets the values from the appropriate table.

The user would initiate their participation by posting their interest in a suitable form. The trainees are classified into two types. Payable trainees and Non payable trainees. The payable trainees can attend the placement activities before they can apply it. The admin will check the applied trainees and send the acknowledgement to appropriate trainees. Finally the admin will send all those resumes to appropriate company. The non payable trainees are working for Honey Bee Technologies. The day to day progress of each trainee's information's will specify in the appropriate user sessions. They can also post their own idea and general information thru Knowledge Transfer System (KTS). That information is stored in KTS table. Every Trainee can send their mail with in the company via Mail System (MS).They can send their feedback to selected Students, and admin.

Client Information Processing. (CIP)

Client system is used for Buying / selling the product thru Online. The product information such as product name, manufacturing date, price and etc are stored in product table. The ordering details are stored in order table. If the Client login to the system the system automatically gets the values from the appropriate

table. And the new Product information will be intimated thru main page of every user. The admin will check the ordered products and send the acknowledgement to appropriate Clients. They can maintain their profiles and accounts thru online. Account management means they can pay their payment thru online using credit card. The client can sell their own products to Honey Bee before they must get some approval information from Honey Bee. They can also change the password thru password manager portal .The clients can send mail to admin via Mail System (MS). They can send their feedback to admin.

Admin Management System. (AMS)

Admin module is used for accepting the newly registered Users based on outcome of the online test. And admin will check the posted information for seminar and placement activities. That information was get from the seminar and placement tables. If applied users are eligible for those events then admin will provide Seat Number for each selected users. This information is updated in seminar and placement tables respectively. In feedback analysis process admin will check the posted feedback for every user with in the company. In shopping cart process the admin will check the ordered products and send the acknowledgement to appropriate Clients. Admin can also manage their profile and account management thru online. He can also change the password thru password manager portal .And send the feedback to all the users with in the company. He will also manage & approve the buying and selling process.

Data Entry System. (DES)

This system is used for adding new questions and appropriate answers and also modifies the existing one. The questions and answers are dumped in the database. DEO also adding product and updating product information in product database. The new seminar and placement information is stored in seminar and placement table respectively. He can also add, delete and modifies the existing information to the appropriate seminar, placement, and questions tables. Mainly the

data entry operations are done by DEO. He can also change the password thru password manager portal.

Online Test

In online test module users must log into this system with Email ID, Hall ticket Number and password. If it is valid they can attend the test else the error message will display. That information is stored in OnlineTestLogin table. The questions and answers are already dumped by DEO to the question table. If the user login to the system then it will automatically gets the question one by one in random order. These details are stored in database. Admin will check those details from the result analysis portal.

Online Shopping

In online shopping client must log into this system with HoneybeeID and Password. If it is valid they can order the products else the error message will display. That information is stored in Login table. The Product details are already dumped by DEO to the Product table. If the Client login to the system the system automatically gets the values from the appropriate table. And the new Product information will be intimated thru main page of every user. The admin will check the ordered products and send the acknowledgement to appropriate Clients.
The ordered products details are stored in order table. The selected products details are temporarily stored in TempTable after the confirmation from client those details are stored in order table.

4.4 TABLE DESIGN

The table design containing Field Name, Data Type, Size of the field, Description and information about keys are represented.

Login

FieldName	Data Type	Length	Key	Allow Nulls	Description
EmailID	Char	30	P	N	Email ID
HoneyBeeID	Char	30		N	HoneyBee ID
Password	Char	30		N	Password

Table 4.4.1 Login

Forgot Password

FieldName	Data Type	Length	Key	Allow Nulls	Description
EmailID	Char	30	P	N	Email ID
SecurityQuestion	Char	50		N	Security Question
Answer	Char	30		N	Answer
BirthdayDate	Char	10		N	Date of Birth
HoneyBeeID	Char	30		N	HoneyBee ID

Table 4.4.2 Forgot Password

OnlineTestLogin

FieldName	Data Type	Length	Key	Allow Nulls	Description
EmailID	Char	30	P	N	Email ID
HallTickNo	Int	4		N	Hall Ticket Number
QuesMode	Int	4		N	Question Mode

Table 4.4.3 OnlineTestLogin

SignmeUp

FieldName	Data Type	Length	Key	Allow Nulls	Description
EmailID	Char	30	P	N	Email ID
Password	Char	30		N	Password
RelationShip	Char	15		N	Relationship
FirstName	Char	30		N	First Name
LastName	Char	30		Y	Last Name
Gender	Char	6		N	Gender
Address1	Char	30		N	Address
Address2	Char	30		Y	Address
Address3	Char	30		Y	Address
City	Char	20		N	City
State	Char	20		N	State
Country	Char	20		N	Country
ResidenceNumber	Char	20		Y	Residence Number
MobileNumber	Char	20		Y	Mobile Number
CreditCardNumber	bigint	8		Y	Credit Card number
Flag	int	4		N	Flag Value

Table 4.4.4 SignmeUp

Student

FieldName	Data Type	Length	Key	Allow Nulls	Description
EmailID	Char	30	P	N	Email ID
SQualification	Char	40		N	Qualification
SInstitution	Char	50		N	Institution Name
SPercentage	Char	5		Y	Percentage Mark
SFatherName	Char	30		N	Father Name
Soccupation	Char	20		N	Occupation
SPhoneNumber	Char	20		Y	Phone Number
SMobileNumber	Char	20		Y	Mobile Number
SCourse	Char	50		N	Course
SModeofTraining	Char	20		N	Mode Of Training
STypeofTraining	Char	20		N	Type Of Training

Table 4.4.5 Student

Client

FieldName	Data Type	Length	Key	Allow Nulls	Description
EmailID	Char	30	P	N	Email ID
CCompanyName	Char	30		N	Name of the Company
CRegistrationNumber	Char	15		N	Registration Number
CAddress1	Char	30		N	Address
CAddress2	Char	30		Y	Address
CAddress3	Char	30		Y	Address
CCity	Char	20		N	City
CState	Char	20		N	Sate
CCountry	Char	20		N	Country
CNoOfEmp	Char	10		Y	No Of Employees
CContactName	Char	30		Y	Contact Person Name
CContactPhone	Char	20		Y	Contact Person No

Table 4.4.6 Client

Trainee

FieldName	Data Type	Length	Key	Allow Nulls	Description
EmailID	Char	30	P	N	Email ID
TResumeHeadline	Char	40		N	Resume Headline
TKeySkills	Char	50		N	Key Skills
TObjective	Char	5		Y	Objective
TSSLCIName	Char	30		Y	SSLC Institution Name
TSSLCAMarks	Char	5		Y	SSLC Aggregate Marks
THSLIName	Char	30		Y	HSC Institution Name
THSCAMarks	Char	5		Y	HSC Aggregate Marks
TUGIName	Char	30		Y	UG Institution Name
TUGAMarks	Char	5		Y	UG Aggregate Marks
TPGIName	Char	30		Y	PG Institution Name
TPGAMarks	Char	5		Y	PG Aggregate Marks
TPostPGIName	Char	30		Y	PostPG Institution Name
TPostPGAMarks	Char	5		Y	PostPG Aggregate Marks
TTotalExpY	Char	4		Y	Total Experience in Years
TTotalExpM	Char	3		Y	Total Experience in Months
TCompanyName	Char	20		Y	Company Name
TPositionHeld	Char	20		Y	Position Held
TAddress1	Char	30		Y	Address
TAddress2	Char	30		Y	Address
TAddress3	Char	30		Y	Address
TCity	Char	20		Y	City
TState	Char	20		Y	State
TCountry	Char	20		Y	Country
TMode	Char	20		N	Mode of Training

Table 4.4.7 Trainee

CHAPTER 5

DATA FLOW DIAGRAM

The data flow diagram is graphical representation which depicts the information regarding the flow of control and the transformation of data from input to output.

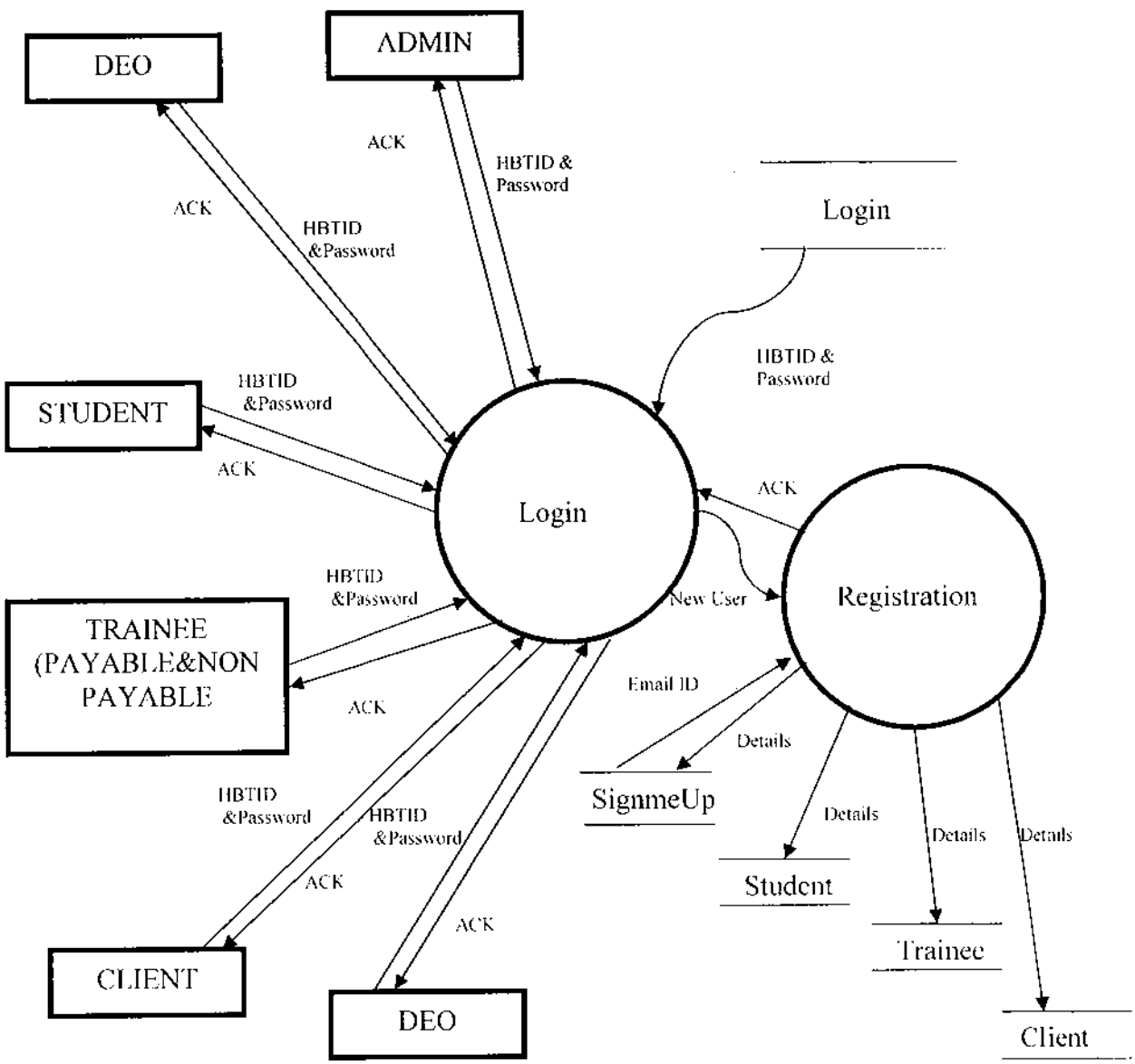


Figure 5.1 Login Processing System

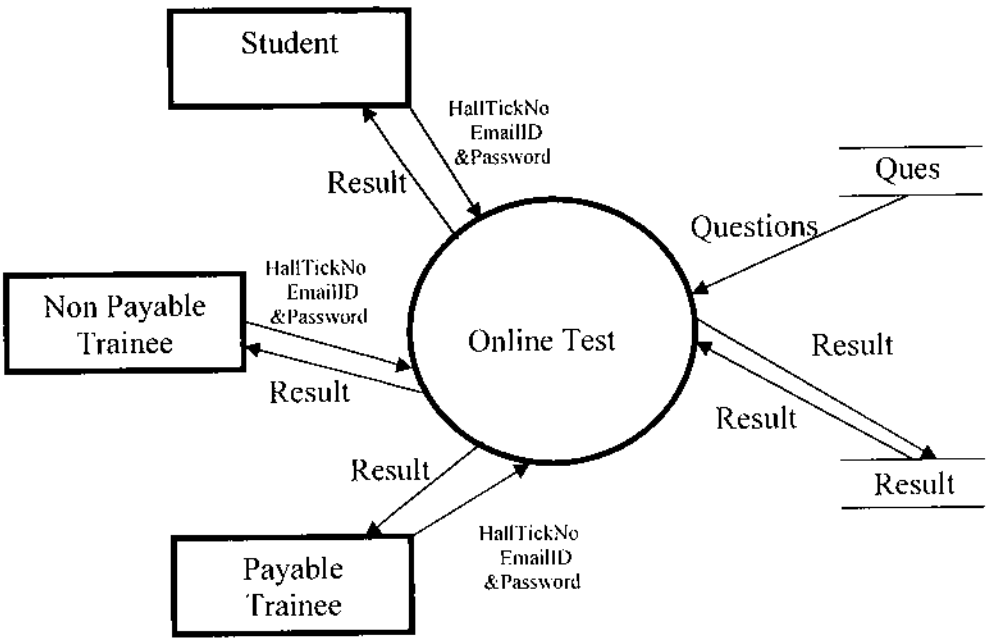


Figure 5.2 Online Test

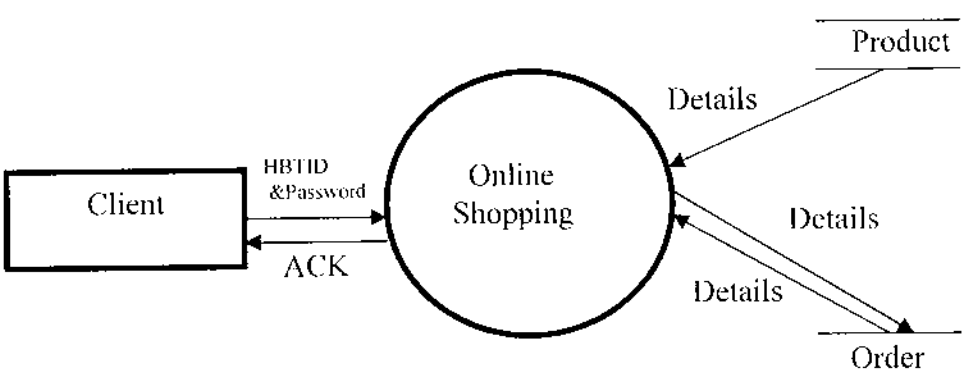


Figure 5.3 Online Shopping

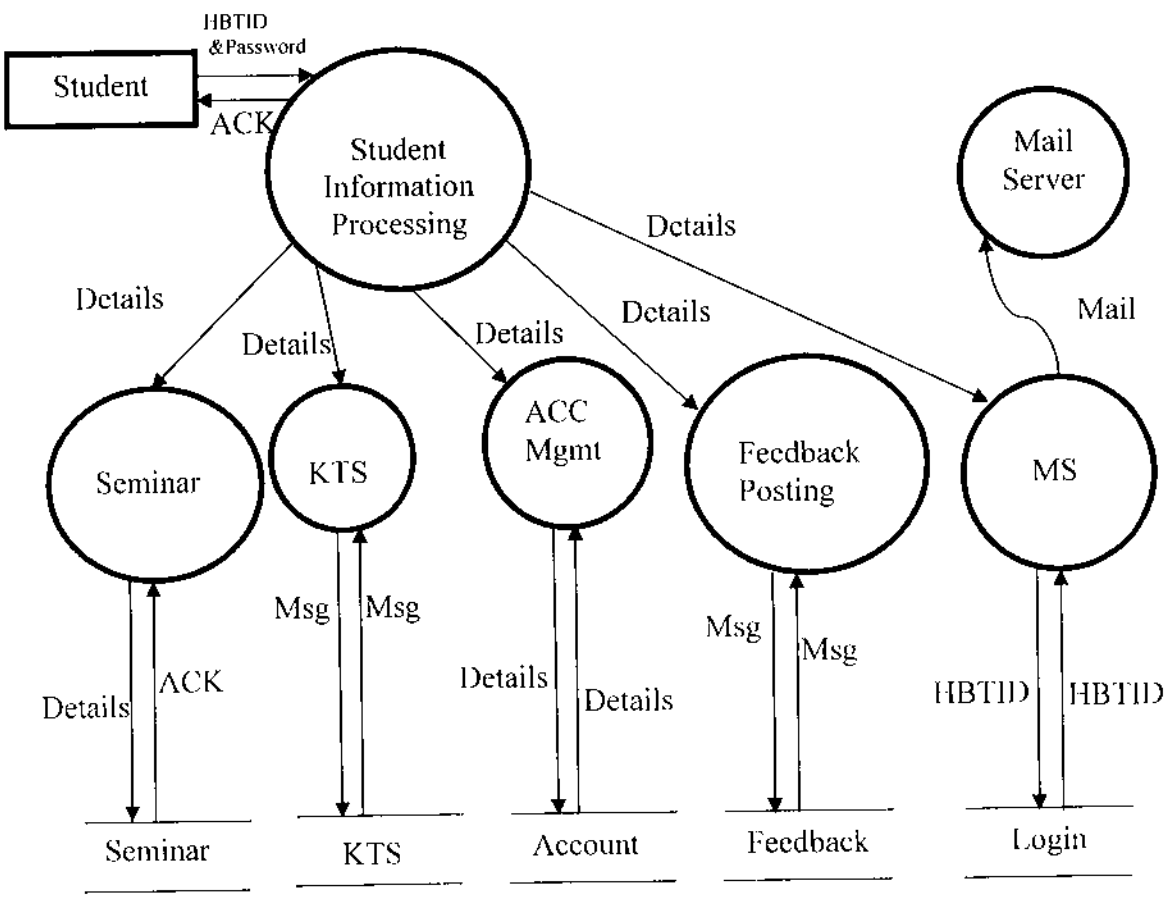


Figure 5.4 Student Information Processing

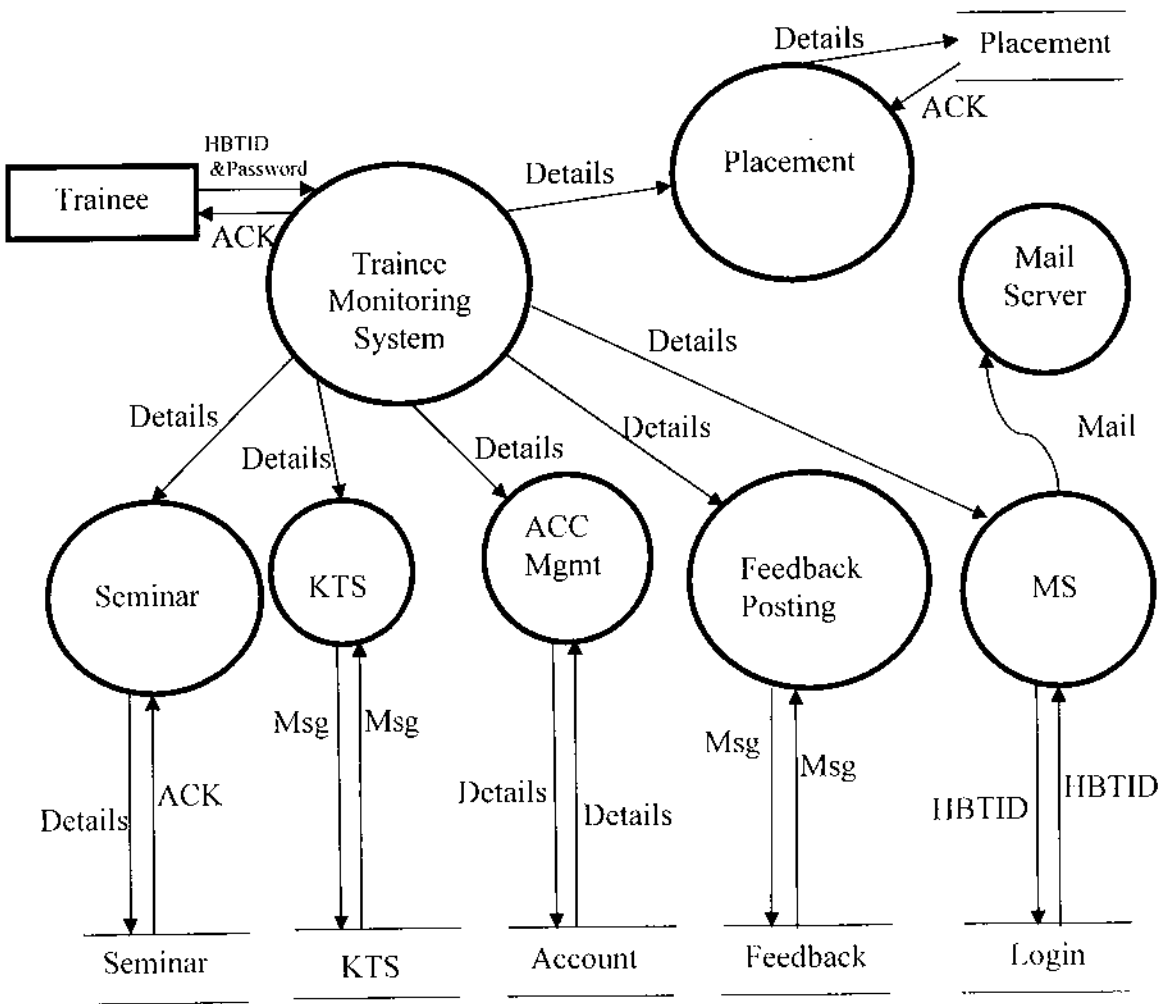


Figure 5.5 Trainee Monitoring System

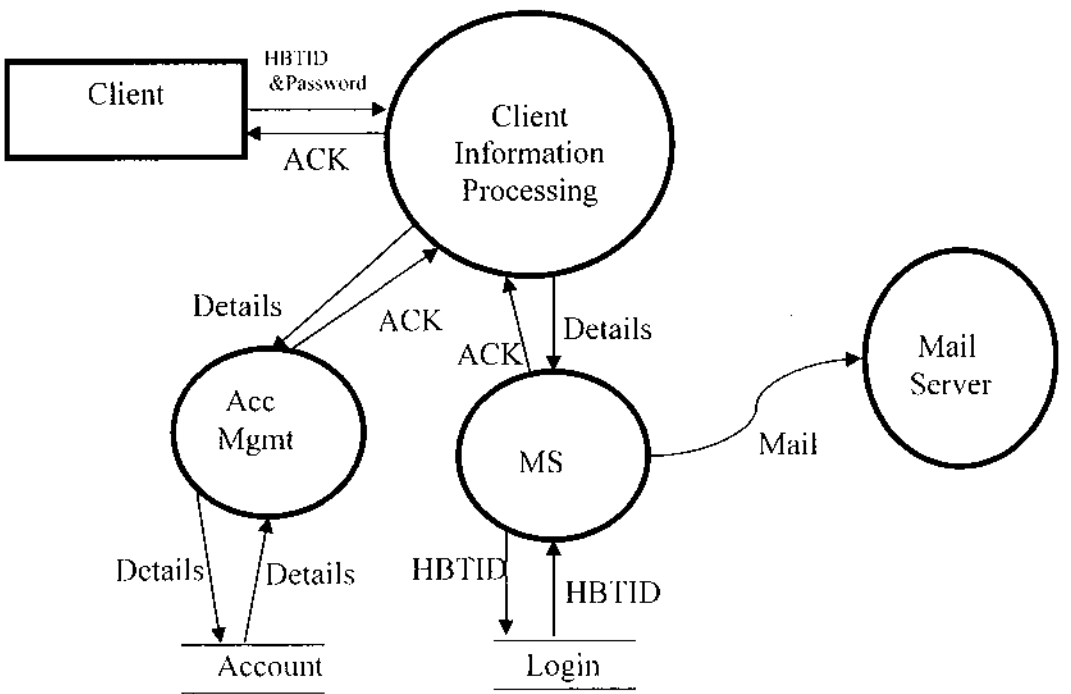


Figure 5.6 Client Information Processing

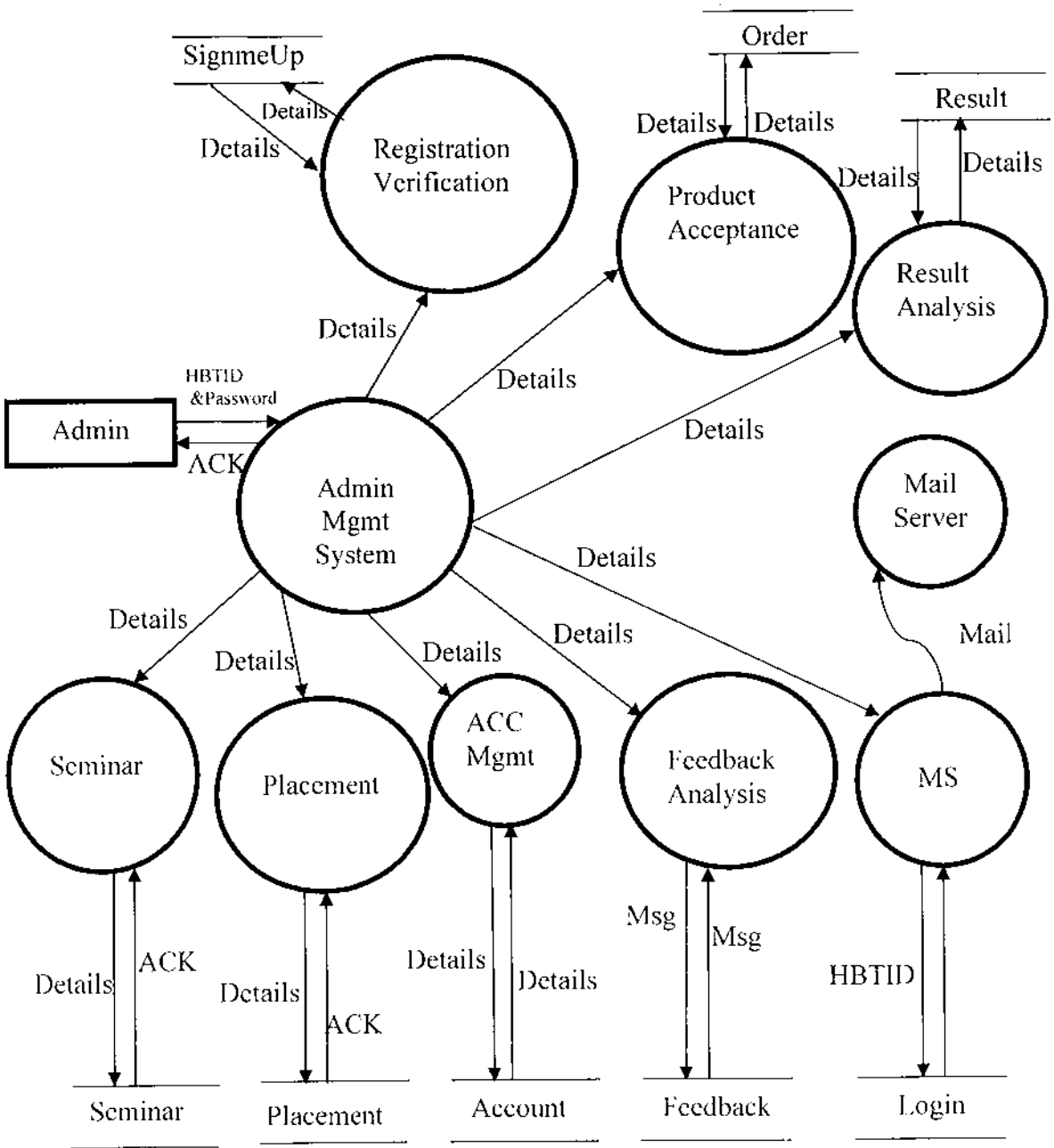


Figure 5.7 Admin Management System

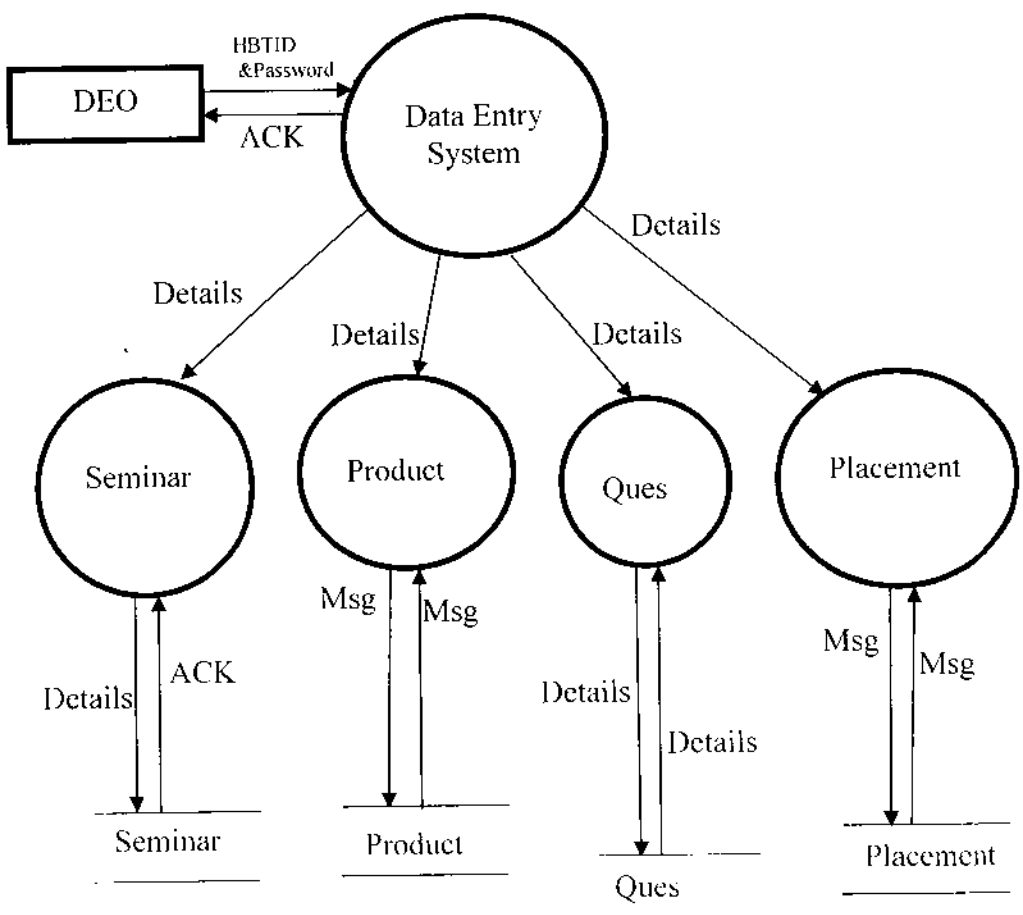


Figure 5.8 Data Entry System

CHAPTER 6

SYSTEM TESTING AND IMPLEMENTATION

6.1 SYSTEM TESTING

System Testing is aimed at ensuring that the system works accurately and efficiently before it can be operated on live data. The testing makes logical assumptions that if all the parts of the system are correct the goal is achieved. It ensures the correctness of the data, correct function of the system. The system was tested with actual data and the flow of the system was checked .The output of this system was compared with that of the existing system and was found to agree.

Testing is an important component of the development of the System. System testing is mainly performed in the intention of finding errors to give the client an error free system.

When validating a system, number of aspects play role. First it must be determined whether the software satisfies the original requirements and global set by user, as specified during analysis. Secondly during analysis. Secondly it must be established whether the system meets specification laid down in the design document.

Testing is a process of executing a program with the intent of finding an error. A good test case is one that has a probability of finding an as-yet-undiscovered error. Successful test is one that uncovers an as-yet-undiscovered error. A series of tests were performed.

The various types of testing are,

- White box testing.
- Black box testing.
- Unit testing.
- Integration testing.
- User acceptance testing.

6.1.1 WHITE BOX TESTING

White box testing is a test case design method that uses the control structure of the procedural design to derive test cases. Using white box testing, the software engineer can derive test case that guarantee that all independent paths within a module have been exercised at least once and exercise all logical decisions on their true and false sides, executes all loops at their boundaries and within their operational bounds, and exercise internal data structures to ensure their validity.

6.1.2 BLACK BOX TESTING

Black box testing focuses on the functional requirements of the software. That is, black box testing enables the software engineer to derive sets of input conditions that will fully exercise all functional requirements for a program. Black box testing attempts to find errors in the following categories

1) Incorrect or missing functions
2) Interface errors
3) Errors in data structures or external database access
4) Behavior of performance errors
5) Initialization and termination of errors.

6.1.3 UNIT TESTING

Unit testing focuses verification effort on the smallest unit of software design-the software component or module. Using component-level, design descriptions as a guide, important paths are tested to uncover errors within the boundary of the module. The relative complexity of tests and uncovered errors is limited by the constrained scope establishment for unit testing. The unit is white-box oriented, and step can be conducted in [parallel for multiple components.

6.1.4 INTEGRATION TESTING

Integration testing is a systematic technique for constructing the program structure while at the same time conducting tests to uncover errors associated with interfacing. The objective is to take unit tested components and build a program structure that has been dictated by design. All the components are combined in advance. The entire program is tested as a whole. A set of errors is encountered.

6.1.5 USER ACCEPTANCE TESTING.

A user acceptance test has the object of telling the user on the validity a reliability of the system. It verifies that the systems procedures operate to system. Specifications and that the integrity of vital data is maintained. Performance of an acceptance test is actually the users show. User motivation and knowledge are critical for the successful performance of the system.

6.2 SYSTEM IMPLEMENTATION

Implementation is the last stage in the project where the theoretical design is turned into a working system. Here the most crucial stage in achieving a new successful system and in giving confidence on the new system for effective and efficient results.

6.2.1 IMPLEMENTATION PROCESS

The system is developed in such a way that the existing facilities are enough for implementation. The hard ware facilities are made sufficient enough to implement the newly developed. The first step in implementation the approval from the users. The data entry through various screens that the system is capable of producing is shown to the staff. When the Administrator department is satisfied, he is asking to give approval to the new system. The system has been successfully implemented in the organization with full cooperation of the management. Finally the system is handed over to the organization.

CHAPTER 7

CONCLUSION AND FUTURE ENHANCEMENT

7.1 CONCLUSION

The **"Interactive Business Over the Web"** is successfully designed and developed to fulfilling the necessary requirements, as identified in the requirements analysis phase, such as the system is very much user friendly, form level validation and field level validation are performing very efficiently.

The new computerized system was found to be much faster and reliable and user friendly then the existing system, the system has been designed and developed step-by-step and tested successfully. It eliminates the human errors that are likely to creep in the kind of working in which a bulk quantity of data and calculations has to be processed.

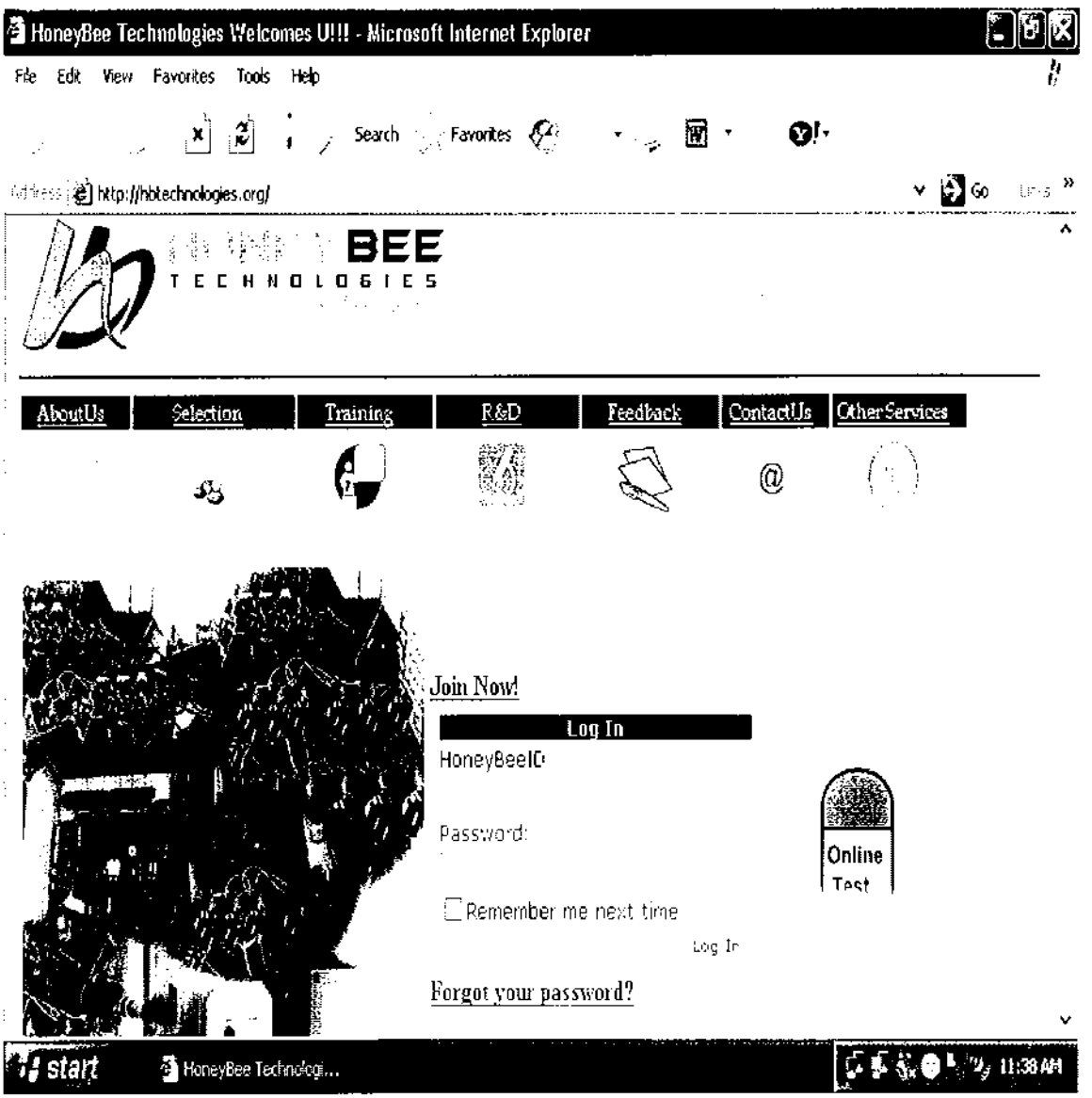
7.2 FUTURE ENHANCEMENT

Every system should allow scope for further development or enhancement. The system can be adapted for any further development. The system is so flexible to allow any modification need for the further functioning of programs. Video conferencing methods can implement for Training In near future.

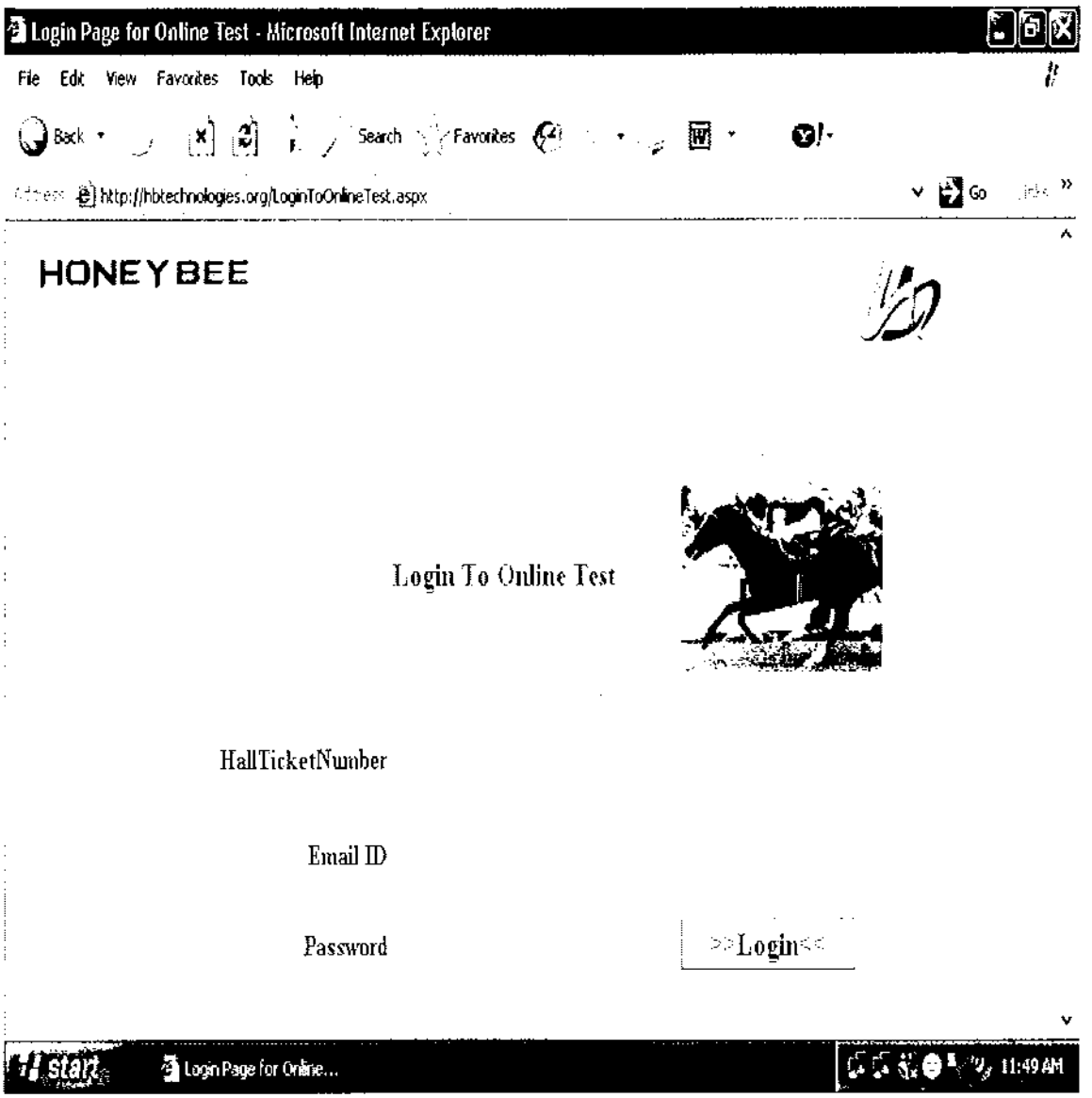
Since the objectives may be brought broad in future, the system can be easily modified accordingly, as the system has been modularized. The future expansion can be done in a concise manner in order to improve the efficiency of the system.

APPENDICES

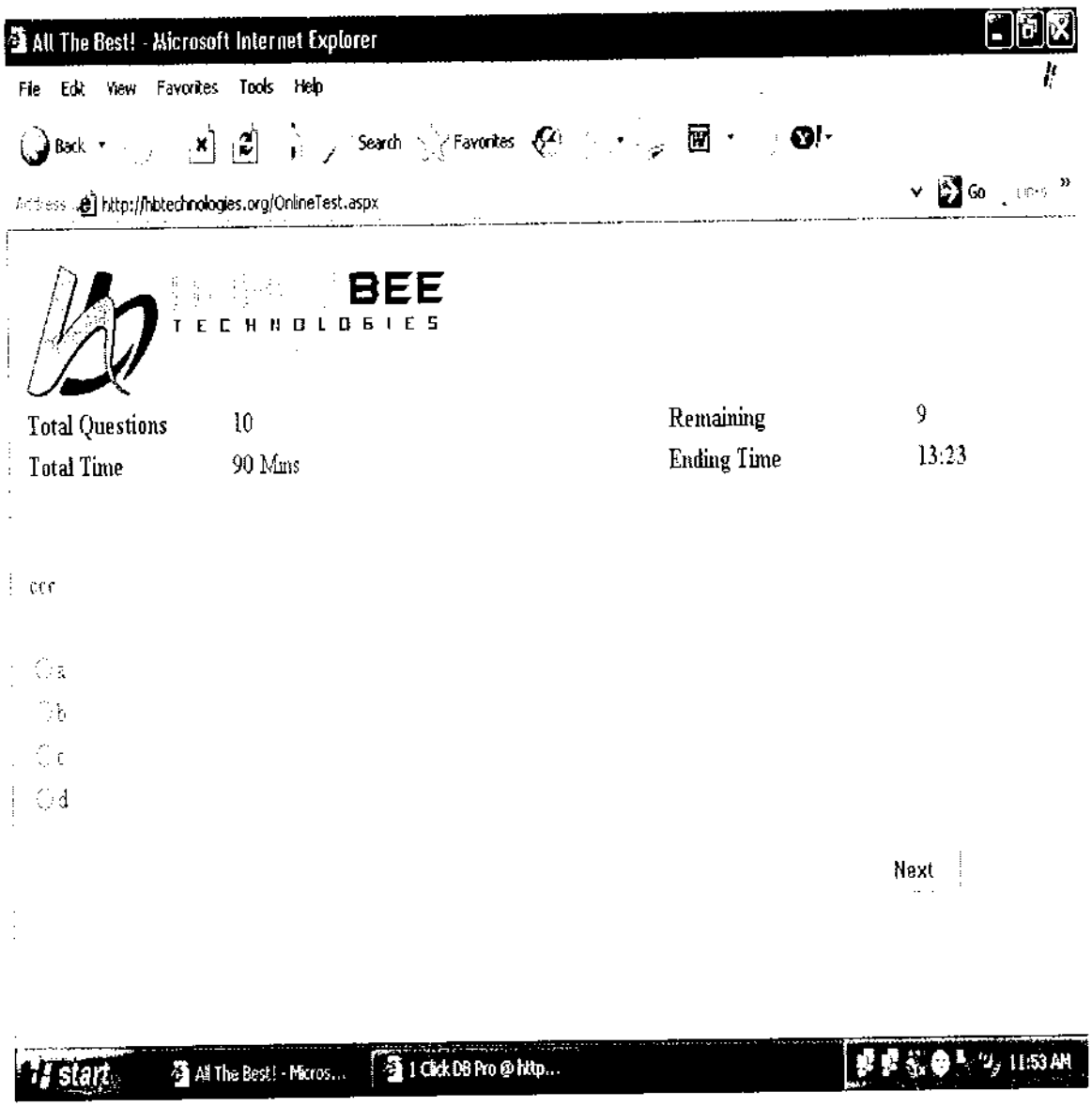
APPENDIX 1



Honey Bee Technologies Home Page



Online Test Login



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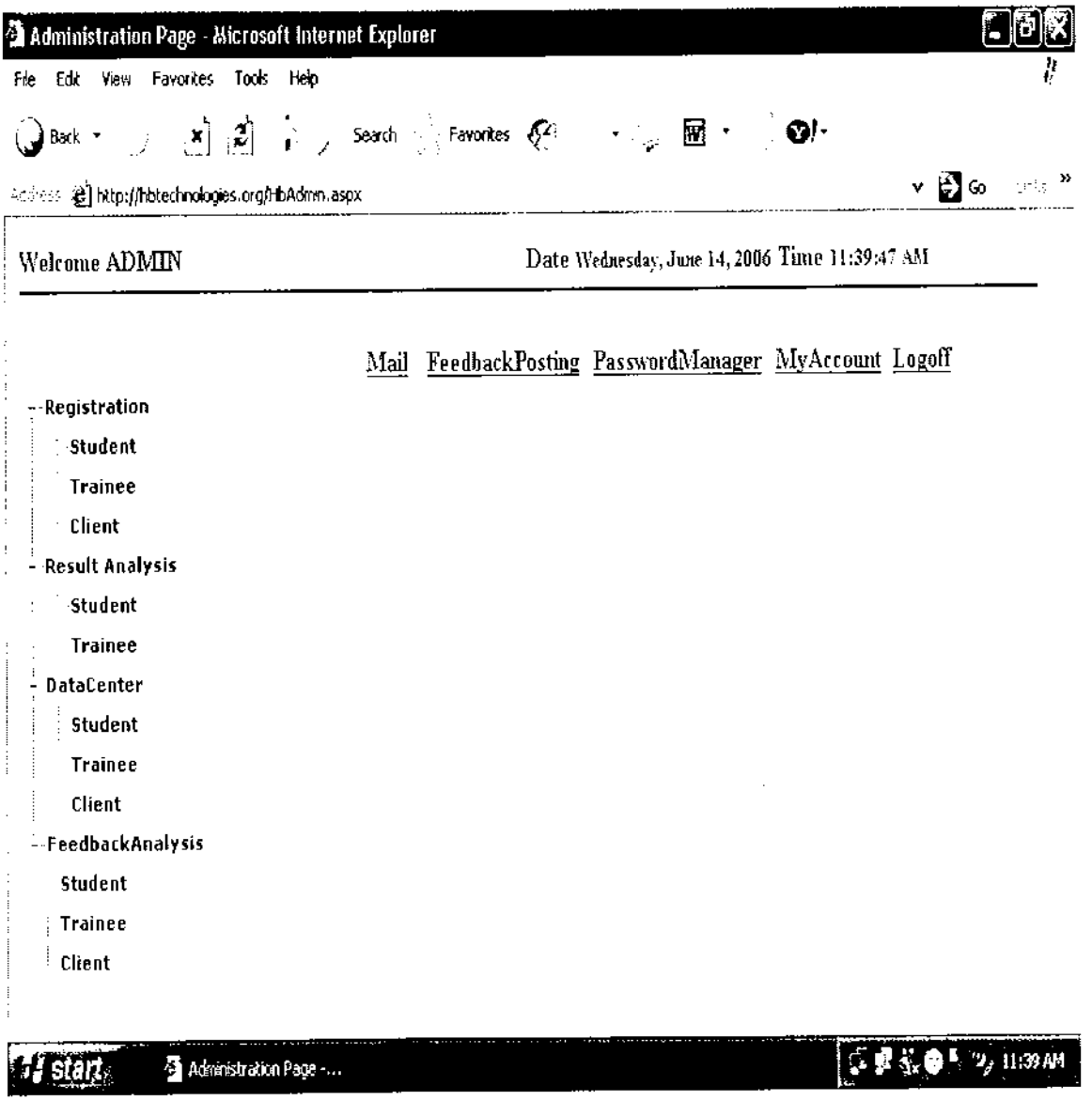


Admin Home Page

Result Analysis for Student

My Home Page Logoff

Name	Anantha kannan	Gender	Male
Address	180 dr rajendra prasath road coimbatore Tamilnadu India	Phone Number	04222490009 9894990200
Qualification	Mca	Institution	Kalasalingam college of Engine
Percentage	75%	Selected Courses	PCB Design
Fathers Details	Ramasamy.T Business 222689	Credit Card Number	0
		ModeofTraining	Direct
		TypeofTraining	Fulltime

Score Not Attended! Status

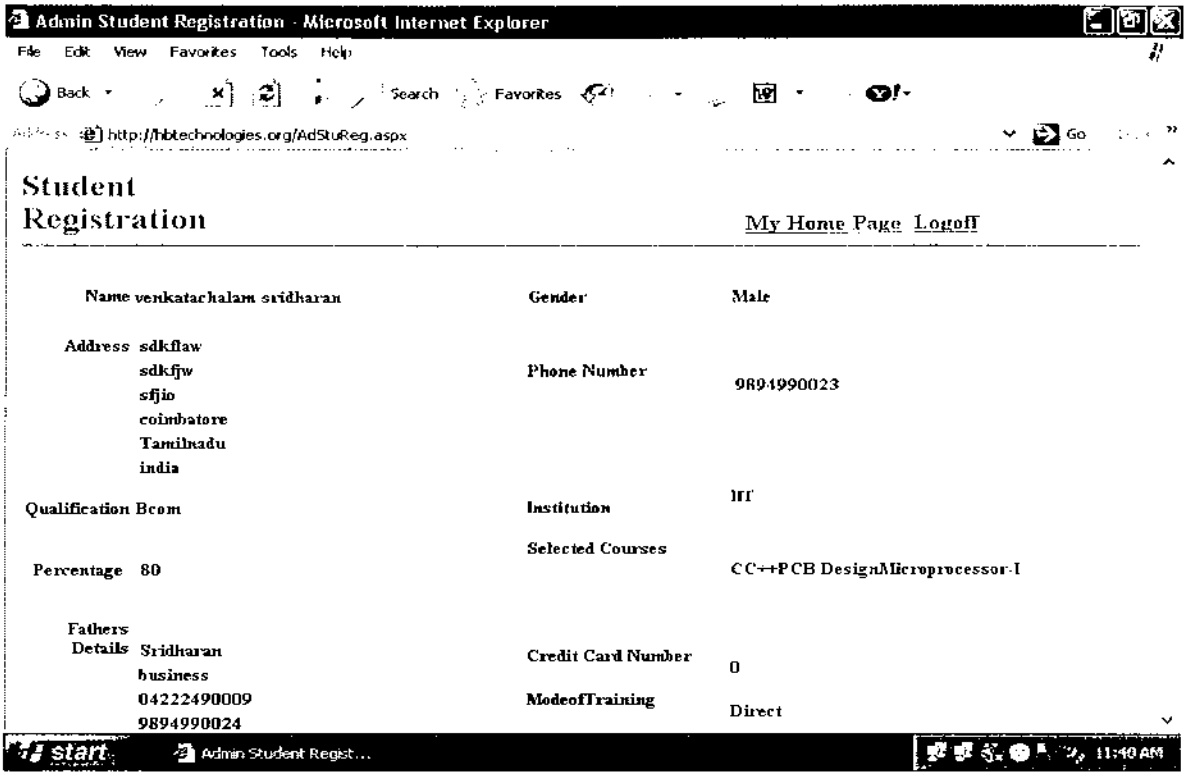
|< << >> >|

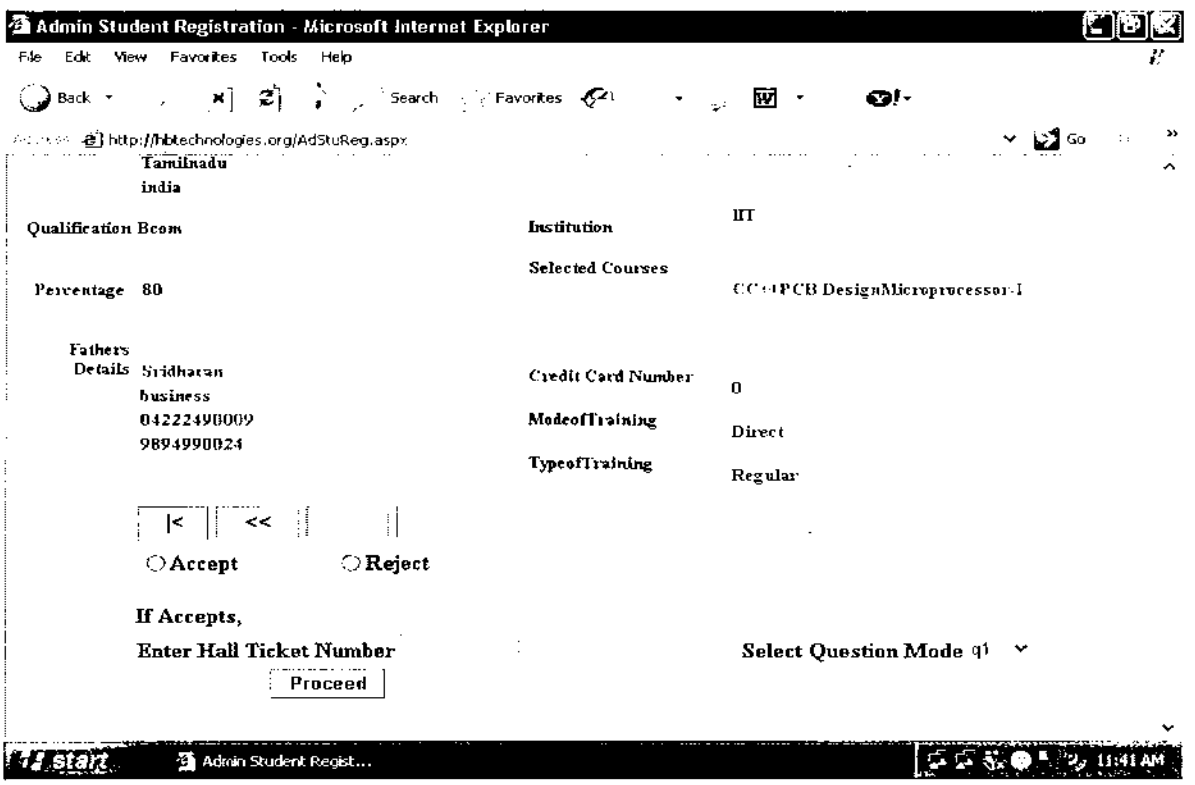
○Accept ○Reject

If Accepts, Enter HoneyBee ID

@hhtechnologies.org

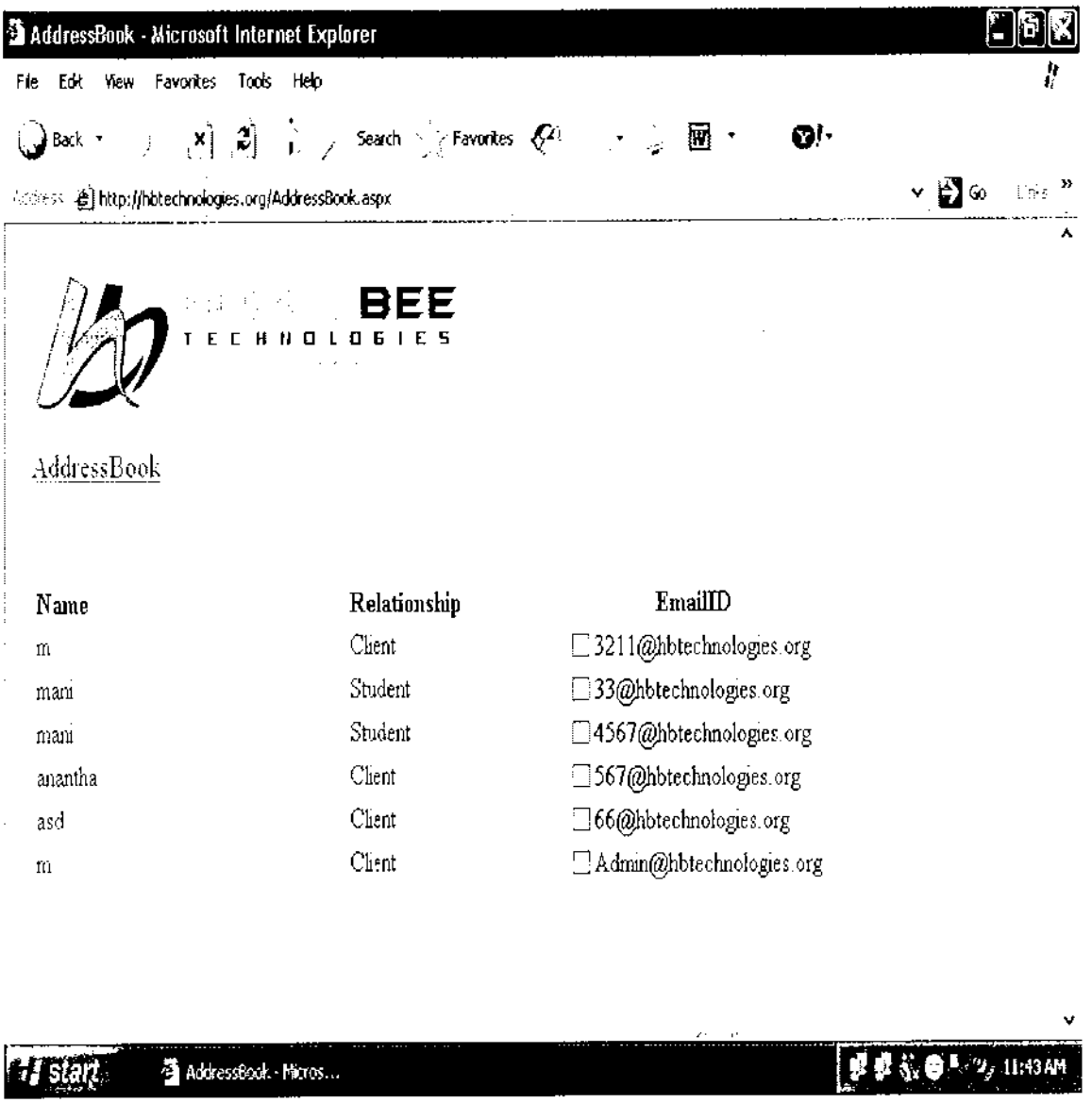
Result Analysis Page



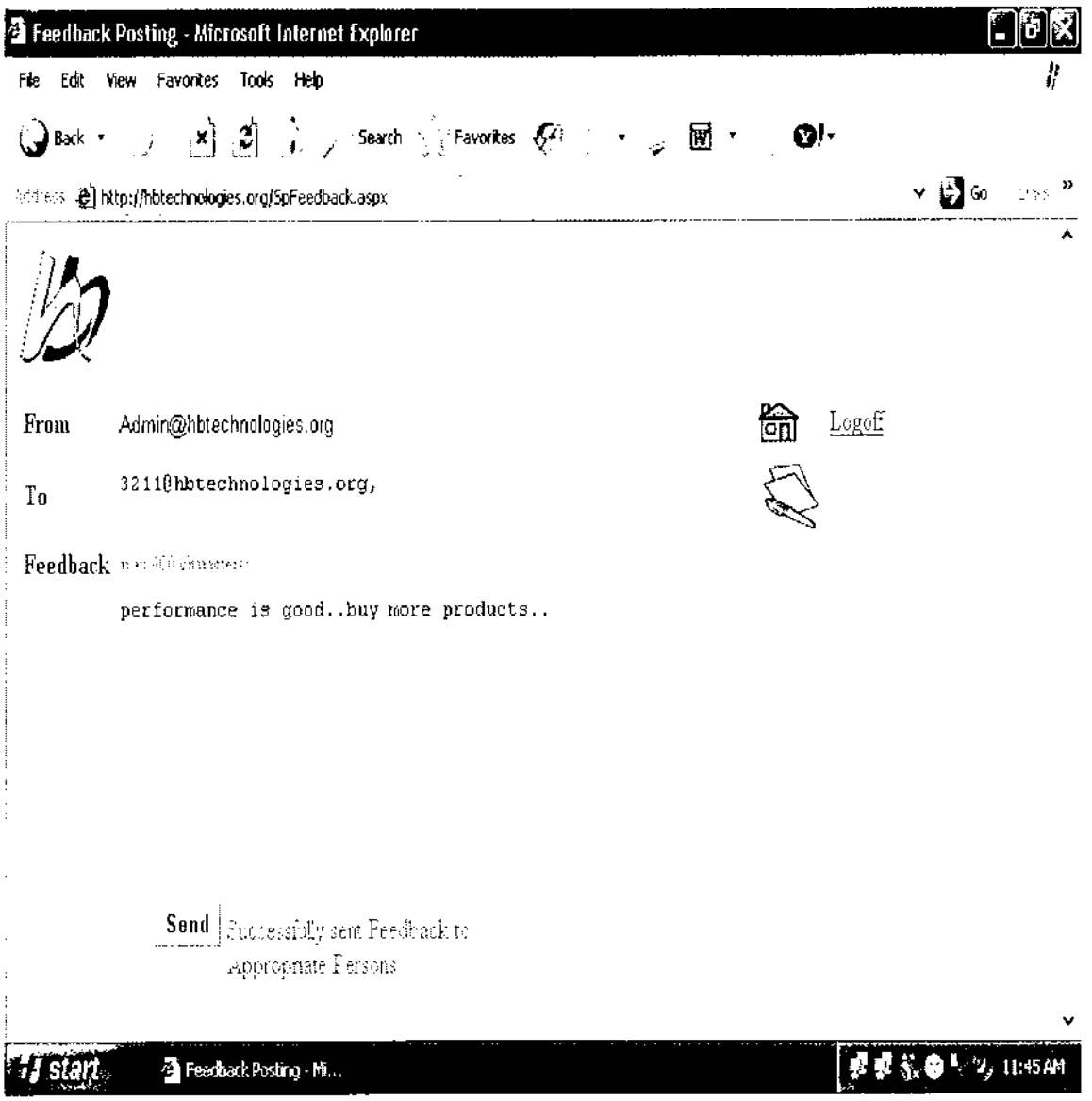


Student Registration Verification Process

Password Manager Home Page



Address Book



Feedback Posting

From Admin@hbtechnologies.org

To 33@hbtechnologies.org,4567@hbtechnologies.org
,567@hbtechnologies.org,

Subject Meeting

Body

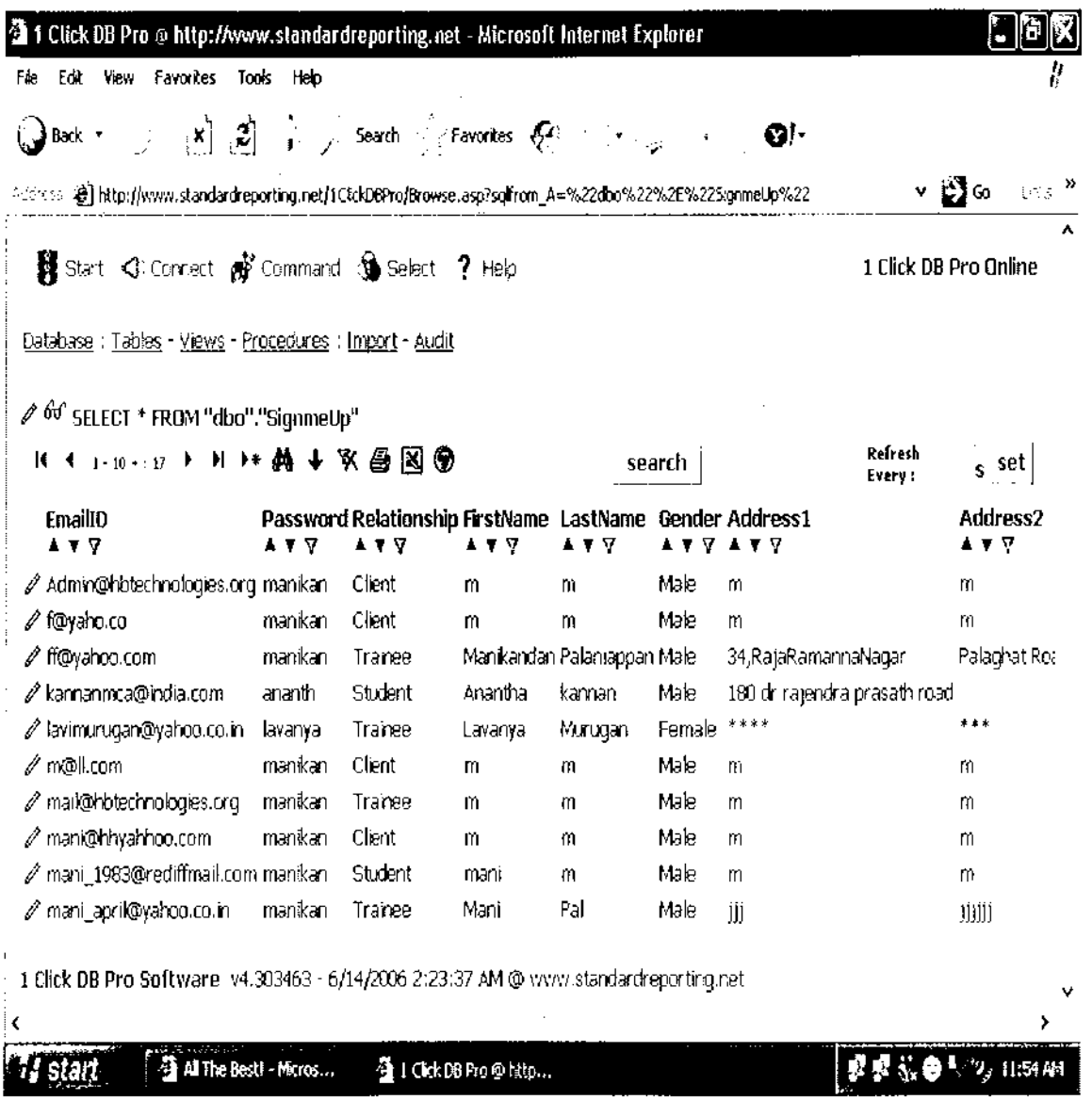
hai friends..please attend the meeting..

Send

Mail System


ContactUs - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://hbtechnologies.org/ContactUs.aspx
Go
BEE
TECHNOLOGIES
For
ContactPerson
Training
Miss Radhika
R&D
Mr Srinvas Sarma
General Enquiry
Mr Venkatachalam
Phone Numbers
914222490009
914225374295
914225372295
Address
130,Dr Rajendra Prasath Road,100 ft Road,
Near Karpagam Cine Complex,
Coimbatore-641012
Send Mail to....
mail@hbtechnologies.org
CONTACT US
start
ContactUs - Microsoft...
1 Click DB Pro @ http...
11:52 AM

Contact Us



Database sample Page

BIBLIOGRAPHY

Text Books

1. David Solomon, David Solomon's (2001), "**Sams Teach Yourself Visual Basic Dot Net in 21 Days**", Crimson Publications.
2. Elias M.Awad, (1997), "**System Analysis and Design**", Golgotha Publications.
3. P.Radhaganesan, "**Basic Visual Basic Dot Net Programming**".
4. Roger S Pressman (1997), "**Software Engineering**", Tata McGraw-Hill Publishing Company.
5. Stephen Walther (2004), "**ASP.NET Unleashed** ", SciTech Publications.

Websites

1. http://www.en911.com/ebook/1-1.htm
2. http://www.exforsys.com
3. http://samples.gotdotnet.com/QuickStart/aspplus/default.aspx?url=/quickstart/aspplus/doc/default.aspx