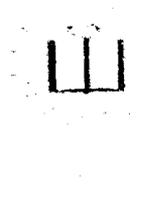




P-3252



WORDPRESS APP INTEGRATOR

PROJECT REPORT

Submitted By

R. SATHIYA

Register No.: 0720300041

*in partial fulfillment for the award of the degree
of*

MASTER OF COMPUTER APPLICATIONS

in

COMPUTER APPLICATIONS

KUMARAGURU COLLEGE OF TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University, Coimbatore)

May, 2010

KUMARAGURU COLLEGE OF TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University, Coimbatore)

COIMBATORE – 641 006.

Department of Computer Applications

PROJECT WORK

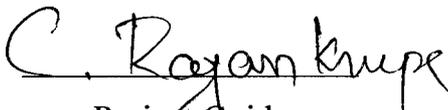
MAY 2010

This is to certify that the project entitled
Wordpress App Integrator
is the bonafide record of project work done by

R. SATHIYA

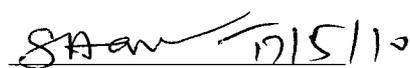
Register No: 0720300041

of MCA (Computer Applications) during the year 2009-2010.


Project Guide


Head of the Department

Submitted for the Project Viva-Voce examination held on 17-05-2010


Internal Examiner


External Examiner

DECLARATION

I affirm that the project work titled **WORDPRESS APP INTEGRATOR** being submitted in partial fulfillment for the award of **MASTER OF COMPUTER APPLICATIONS** is the original work carried out by me. It has not formed the part of any other project work submitted for award of any degree or diploma, either in this or any other University.

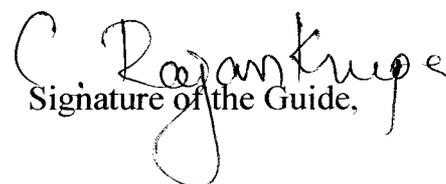


(Signature of the Candidate)

R. SATHIYA

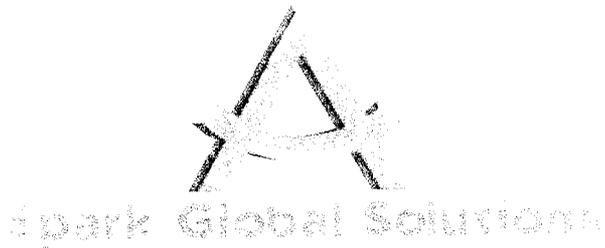
072030041

I certify that the declaration made above by the candidate is true



Signature of the Guide,

With Name & Designation



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April 23, 2010

To Whom It May Concern

We are providing this certificate to **Ms.Sathiya.R (Reg.No:0720300041)**, MCA department from "**Kumaraguru College Of Technology**" for the project "**Wordpress App Integrator**" Completed with our extreme Organization.

Project Duration: December 2009 to April 2010

The developed software have been tested and forwarded to User Acceptance Testing. After Successful implementation of the application we are issuing this certificate.

A handwritten signature in black ink, appearing to read 'Swaminathan', is positioned above the printed name.

Swaminathan
Vice President (Technology & global operations)

ACKNOWLEDGEMENT

First of all, I wish to thank the almighty who have blessed me with good health and wealth to carry out this project successfully.

I wish to express my sincere thanks to **Dr. S. Ramachandran**, Principal, Kumaraguru College of Technology, Coimbatore, for permitting me to undertake this project.

I wish to express earnest thanks to **Dr. Thangasamy**, Dean and **Dr. A. Muthukumar**, course co-ordinator, Master of Computer Applications, Kumaraguru College of Technology, Coimbatore, for their support and encouragement.

My deepest acknowledgement to the project co-ordinator **Mr. S. Hameed Ibrahim**, **Senior Lecturer**, Master of Computer Applications, Kumaraguru College of Technology, Coimbatore, for his timely remarks and comments about the project, which helps us to improve our knowledge and project.

I want to acknowledge my project guide, **Mr. C. Rajan Krupa**, **Senior Lecturer**, Master of Computer Applications, Kumaraguru College of Technology, Coimbatore, for his support and encouragement in making this project a success. His excellent suggestions and timely encouragement helped me complete the project and the project report.

I wish to express my gratitude to my Spark Global Solutions Project guide, **Mr. P. Swaminathan**, Vice President (Technology & global operations), Spark Global Solutions, Chennai, for his useful suggestions and support given throughout the project.

I wish to thank all my teaching and supporting staff members for their timely help to complete the project successfully.

ABSTRACT

The system “**WORDPRESS APP INTEGRATOR**” mainly aims at fetching the large number of articles from web server and downloads the content. Also this system integrates the articles content from various sources in to a website. It also focuses on the articles sales and inventory.

This system is maintained by the Administrator. Administrator will search the articles by category from various sources where articles reside and that URL will be given as input to fetch large number of articles from that source. Administrator can be downloaded in ‘pdf’ format to local drive from web server.

Content of each article goes to database for integration purpose. Two vital roles play by the system. One is fetching content from local for integration, that is, by giving a location of a directory which contains text files, to extract those files contents to database. Next is, if the articles contents are not in English then the system also enable service of translation.

Contents from database can be integrated in to a portal called “**WORDPRESS**”. Integration of content is nothing but hosting collected articles from various sources to a website. Also date wise integration is possible for updating content frequently.

Also our system focuses on sales and inventory of articles and reports such as whole report and also dates wise reports of sales.

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List of Abbreviations:

Abbreviation	Expansion
IDE	Integrated Development Environment

CHAPTER 1

INTRODUCTION

This chapter is organized into two parts. The first part deals with the organization profile. It provides a brief insight into the history of the organization and the products. The second part gives an introduction about the project.

1.1 ORGANIZATION PROFILE

Spark Global Solutions

Spark Global Solutions, Inc. provides innovative, user-friendly software solutions to the legal industry and is committed to building easy-to-use cross-platform business and technology solutions.

Spark Global Solutions was founded with the vision that legal processes could be improved using tools that have been successfully applied in other business disciplines. Ongoing discussions with industry experts and clients ensure continued innovative solutions built to meet exacting legal process requirements.

By filling the capability gaps and investing in research and development, Spark Global Solutions has built the industry's foremost end-to-end platform for corporations and their outside counsel to holistically manage legal governance, risk and compliance processes.

Today, Spark Global Solutions is essential in ensuring faster, smarter, litigation response to e-discovery and regulatory compliance requests.

Spark Global Solutions looks at problems from new perspectives and incorporates best practices from disparate sources. Concepts and processes are constantly being scrutinized and re-examined using input from clients and industry experts to come up with better, faster and more efficient solutions. Through constant innovation and continual refinement, Spark Global Solutions remains the leading provider of robust software solution for today's complex legal world.

Spark Global Solutions is exceptionally accessible to its clients and partners, who are encouraged to provide creative feedback — ensuring a constant influx of fresh, new perspectives and ideas. Leveraging roundtable discussions, on-site client meetings, learning seminars and working groups, Spark Global Solutions is able to direct its research and development to address unmet needs in the legal industry.

In Spark Global Solution's agile work atmosphere, new concepts move quickly from idea to reality, keeping pace with the ever-changing legal industry. Spark Global Solution's uniquely flexible solutions adapt to multilayered business environments and integrate seamlessly into disparate technology frameworks.

Spark Global Solutions believes in fostering a sense of community within its offices' walls as well as in the greater global neighborhood. Spark Global Solutions provides its employees with the ability to leverage their skills in fresh ways, and to take ownership over their jobs, their communities, and their roles as responsible, innovative, creative individuals.

1.2 PROJECT OVERVIEW

This project '**Wordpress App Integrator**' is a system that integrates contents from various sources to a single website in a quick time.

This project extracts the contents form some particular websites using java and feeds it into wordpress. The articles' sources are,

- ☞ www.articlesbase.com
- ☞ www.ezinearticles.com
- ☞ www.ehow.com
- ☞ www.answers.yahoo.com
- ☞ From local drive

The contents are fed into database form local drive just by specifying the location of contents and its category.

The contents from database can be downloaded into the local drive in the PDF format.

The system also enables to take dump of SQL database using SQL manager tool. The dump(.sql) is stored into specified location of local drive.

Sales are made for

- ☞ Individual PDF file
- ☞ SQL Dump

Customer information and sales information are maintained. Jasper Reports are also generated as user demands.

CHAPTER 2

SYSTEM STUDY AND ANALYSIS

A complete understanding of the requirement is essential for the success of software development. The software scope, initially established by the system engineer and refined during the project planning, is refined in detail. Model of the required data, information and control flow, and operational behaviour are created. Alternative solution are analyzed and allocated to various software elements. The feasibility study evaluates the viability of the project and presents the recommended strategy adopted for the development.

2.1 EXISTING SYSTEM

At present, no other system does the task which is done by '**Wordpress App Integrator**' that extracting content from one web server and integrate the other web server by the data fetched. Here before, to import content in to web server manual work has to be involved and also it is very tedious for large amount of content hosting. There is no application to download large amount of content from web server.

2.1.1 Drawbacks of the Existing System

- Each URL is manually opened and contents are copied and pasted into notepad.
- Sales and customer information are maintained in Microsoft Excel.
- Manually opening and copying each and every website is very tedious task.
- Duplication of sales may happen.

2.2 PROPOSED SYSTEM

In our System, Every process is automated. The input to the system is a search URL of a corresponding website. In a single click, the system fetches large number of content from that URL and as well as downloaded the content in to local disc. If the website is not a English versioned then the system itself translated the content to English and it is very accurate to avoid duplication of content. Also In a single click, All content belongs to one category from a source can be imported to another web server.

2.2.1 Advantages of Proposed System

The expected benefits of the proposed system are

- If the resulted page based on category is given as input into the portal, automatically all the contents of requested number of pages are inserted into database.
- If the requested page is one and if the first page content is already inserted into DB then the content of second page is automatically inserted.
- Duplicate contents are also checked before inserting into DB.
- Sales and Customer information are maintained and duplication of sales also checked depends on customer.

CHAPTER 3

DEVELOPMENT ENVIRONMENT

3.1 HARDWARE REQUIREMENTS

The hardware support required for deploying the application

Processor	:	Intel Core 2 Duo
Speed	:	3.1 GHZ
Memory	:	2 GB RAM
Hard Disk Capacity	:	250 GB
Monitor	:	15” inch SVGA
Mouse	:	Logitech Mouse (Scroll)
Keyboard	:	108 Keys

3.2 SOFTWARE REQUIREMENTS

The software support required for deployment is

Operating System	:	Windows 7
Software	:	J2EE(Struts Framework)
Scripting Language	:	JSP
Web Server	:	Tomcat 5.5
Database	:	MY SQL
Wordpress Server	:	WampServer 2.0i

CHAPTER 4

SYSTEM DESIGN

INTRODUCTION

“**Wordpress App Integrator**” is a system that enable administrator to fetch large number of articles from various sources at a time. Input to this system is a search URL of a particular source where the admin wants to extract articles. In a time, large numbers of articles contents are goes to database as well as downloaded the articles in ‘pdf’ to local drive.

If admin gives French URL, then the articles contents are translated to English and inserted in to database and also downloaded. This system also extracted content from local drive which contains articles in text files.

Then the articles are moved to sales, article sale is based on category. According to user requirement the articles are to be sold in ‘pdf’ format. Also this portal concentrates on inventory and reports generation.

The whole articles fetched from various sources goes to “Wordpress” terminal. Administrator uploads the articles to “Wordpress” terminal in category wise. Also frequently clears the database for new articles to be post.

4.1 DIAGRAMS

4.1.1 USE-CASE DIAGRAMS

A use case diagram in the Unified Modelling Language (UML) is a type of behavioural diagram defined by and created from a Use-case analysis. Its purpose is to present a graphical overview of the functionality provided by a system in terms of actors, their goals (represented as use cases), and any dependencies between those use cases.

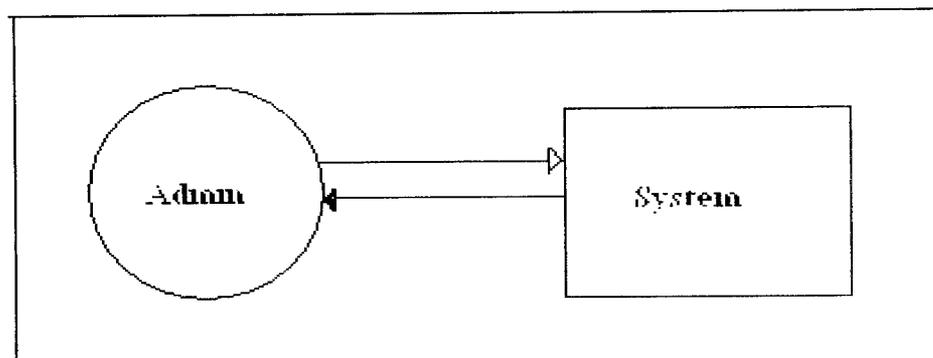
Fig 4.1(a): App Integrator Use-Case Diagram

This use-case talks about the overall processes of this system. Number of actors in this system is one. Every activity has been done by the administrator. To fetch articles contents from a source, the administrator passes the search URL to the system. Then the system fetches the articles contents from the source and stored in to DB. If the administrator gives French URL the activity includes translation activity which translates the French content and then stored in to DB. In both the activity, while contents are affecting database, download is also takes place. The downloaded articles are to be sold by the administrator, and the records are keep track in DB for inventory purpose and to avoid duplication. Also administrator can import contents from local drive, then that also goes to DB for wordpress integration. Articles are hosting to wordpress by updating the wordpress database in date wise, also administrator clears database for articles update in wordpress.

Data Flow Diagram

Level – 0

There is only one actor (administrator) interacts with the “Wordpress App Integrator” system. And the system response is also sends to the administrator.

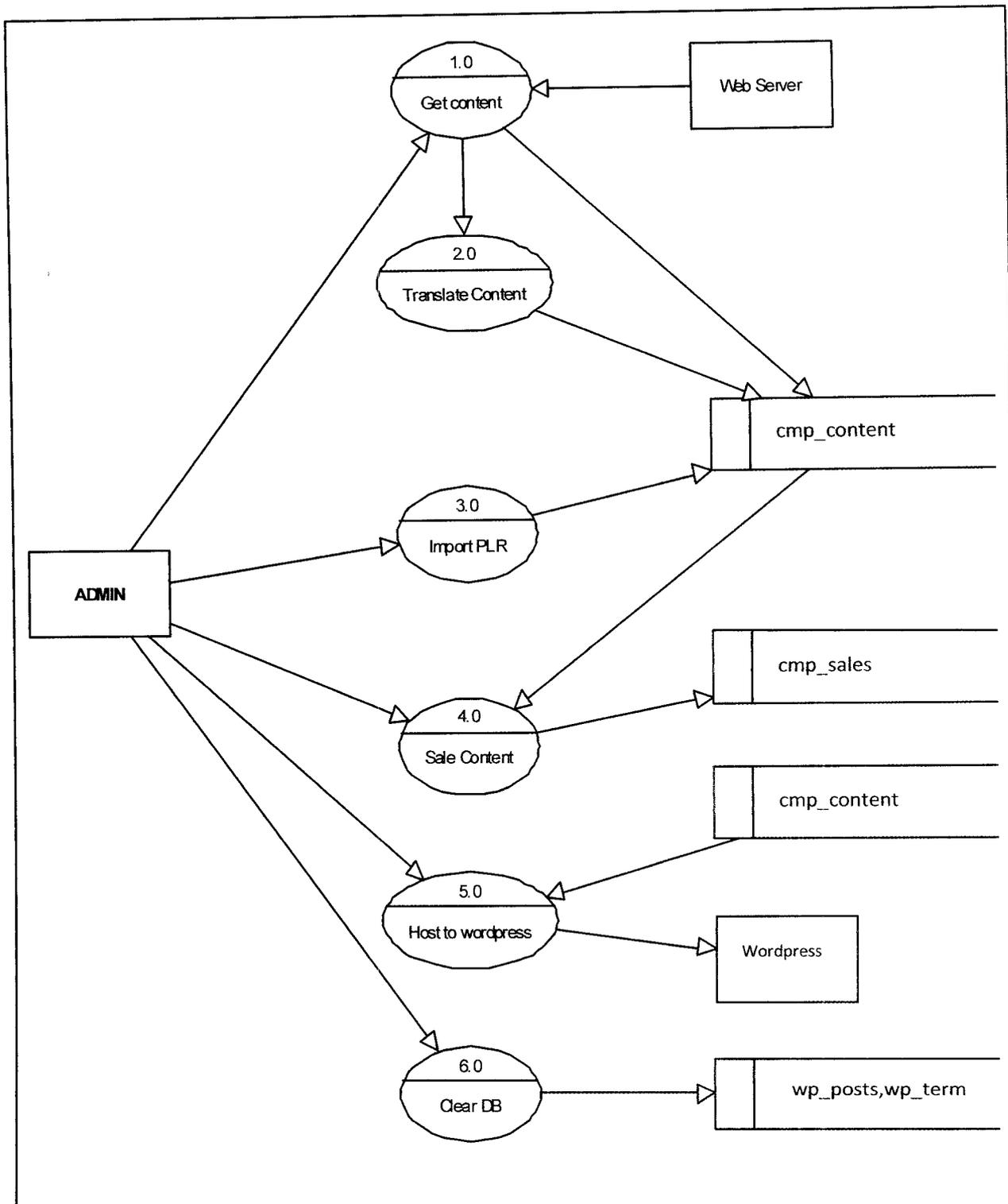


Level – 1

Level – 1 dataflow illustrate the data flow over the system.

- 1.0. Admin gives the URL to the system to extract articles from the source. The articles contents for the given URL are fetched from web server of the particular website.
- 2.0. If the website is French website then the content are translated in to English, then goes to database if it is already in English then content directly goes to database with URL and article id to avoid duplication of fetching.
- 3.0. Local drive content is also inserted in to Data Base by the administrator.
- 4.0. The content reside on database are passed to sales from the content data source. Admin sells the articles which are downloaded in to local drive. And the sales data are stored in to database for inventory and reports generation.
- 5.0. Also the articles contents are passed to wordpress upload terminal from the data source. Admin upload the data in to wordpress in date wise. And the content goes to wordpress web server.
- 6.0. Admin updates or clears the data source of wordpress for content updating in wordpress website.

Diagram:



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4.2 DATABASE DESIGN

A database is a collection of inter-related data stored with minimum redundancy to serve many users quickly and efficiently. The general objective of database design is to make the data access easy, inexpensive and flexible to the user. An elegantly designed database can play a strong foundation for the whole system.

The details about the relevant data for the system are first identified. According to their relationship, tables are designed through the following method.

- The data type for each data item in the table is decided.
- The tables are then normalized.

The tables are normalized so that they can provide better response time, have data integrity, avoid redundancy and be secure.

DATABASE STRUCTURE:

This system uses many numbers of tables to store the details of agents and clients. It also contains the table about transactions.

4.2.3 (a): Table Name: cmp_content

This table contains all the extracted contents from website.

Field Name	Data type	Constraint
Id	INT(10)	Primary
Content_id	Varchar(50)	
Title	Longtext	
Cmp_url	Longtext	
Content	Longtext	
Category	Varchar(45)	
File_name	Varchar(100)	
Source	Varchar(25)	
Created_date	Date	
Download_flag	Tinyint(1)	

4.2.3 (b): Table Name: cmp_download

This table contains the lists of branches downloaded Files.

Field Name	Data type	Constraint
ID	Int(10)	Primary
File_name	Varchar(100)	

4.2.3 (c): Table name: cmp_customer

This table contains the list of Customer details.

Field Name	Data type	Constraint
Customer_id	Varchar(10)	Primary Key
Name	Varchar(50)	
Address	Varchar(150)	
Email_id	Varchar(50)	
Phone_no	Varchar(15)	

4.2.3 (d): Table name: cmp_sales

This table contains the sales details.

Field Name	Data type	Constraint
Id	Int(10)	Primary key
Cutomer-id	Varchar(10)	Foreign Key References customer table
Sold_Date	Date	
File_sold	Varchar(45)	
Price	Double	
Sale_type_flag	Tinyint(1)	

4.2.4 MODULAR DESIGN

Modular design — or "modularity in design" — is an approach that subdivides a system into smaller parts (modules) that can be independently created and then used in different systems to drive multiple functionalities. Besides reduction in cost (due to lesser customization, and less learning time), and flexibility in design, modularity offers other benefits such as augmentation (adding new solution by merely plugging in a new module), and exclusion.

This system is also modularized to reduce the complexity of the system. This contains various modules.

A) Data Extraction Module:

- ☞ Data extraction module extracts articles' contents from various websites such as articles base, ezine articles, ehow, yahoo answers and content from local drive.
- ☞ Contents of requested number of webpages will get stored into database.
- ☞ In yahoo answers website the French contents are extracted and they are translated to English using **Google Translator** tool.
- ☞ If the needed articles are located in the local drive then if the location of the article is given as input the those contents will get inserted into Database.

B) Download Module:

- ☞ This project enables to download each and every article from database.
- ☞ The download of articles is depending on the categories currently in the database.
- ☞ The contents will be downloaded in the local drive named as category name and the date of download to achieve uniqueness in folder name.

C) WordPress Module:

- ☞ WordPress is an open source blog publishing application and can be used for basic content management
- ☞ Wordpress database will be automatically created when wordpress is installed.
- ☞ This system is used to push the content from database created to wordpress database.
- ☞ The wordpress db dump is taken using SQL manager.
- ☞ There is also option to clear Wordpress Database if required.

D) Sales Module:

- ☞ Two kinds of sales are possible by this system
 - Individual file sales
 - SQL dump file sales
- ☞ Individual files are the downloaded file.
- ☞ Downloaded files are sold according to requested category by the customer.
- ☞ Duplication of sales to a particular customer is avoided.
- ☞ SQL dump file is also sold similarly to make the customer to host the contents into his blog.

E) Reports Module:

- ☞ Jasper reports are created by the system.
- ☞ Reports are either created as a PDF file or viewed using IReportViewer according to the user demand.
- ☞ Various reports such as
 - Customer List
 - Date wise Sales, etc., are generated.

CHAPTER 5

SYSTEM IMPLEMENTATION AND TESTING

5.1 IMPLEMENTATION

The system is implemented using Eclipse IDE, Tomcat Server, Wamp Server WordPress and MYSQL

5.1.1 Implementation of Business Logic

The business logic is implemented using Eclipse J2EE Galileo.

5.1.2 Implementation of Database Communication

For database communication, MYSQL is used along with JAVA. MYSQL is the most popular Open Source SQL database management system. MYSQL has many inbuilt functions to carry out the operations with database. These functions are used as a part of JAVA file. Using these functions the queries are executed and the operations on database are carried out. The inputs are received from action script file of IDE. The operations are performed according to the command received from IDE. Those operations are performed and the results are returned to the IDE using XML files.

5.2 SYSTEM VERIFICATION

System Verification is the process of evaluating software to determine whether the products of a given development phase satisfy the conditions imposed at the start of that phase. Verification is ensuring that the product has been built according to the requirements and design specifications- i.e., you built it right. Verification is the assurance that the products of a particular development phase are consistent with the requirements of that phase and preceding phase(s).

In this “**Wordpress App Integrator**” project, review of interim work steps is done to ensure they are acceptable. Before starting of this project the requirement has been fully analyzed for verification. In data access, it verifies whether the right data is being accessed in terms of the right place and in the right way.

5.3 SYSTEM VALIDATION

System Validation is the process of evaluating software during or at the end of the development process to determine whether it satisfies specified requirements. Validation checks that the product design satisfies or fits the intended usage (high-level checking) — i.e., you built the right product. This is done through dynamic testing and other forms of review. Validation ensures that the product actually meets the user's needs, and that the specifications were correct in the first place.

In this project validation is achieved using java script. Any wrong entry display error messages or warnings. All the fields are validated to make user to know about wrong data usage. Validation also determines if this project complies with the requirements and performs functions for which it is intended and meets the organization's goal and user needs. Validation has been done against the null entry, wrong format of URL, limit and date exceeds.

5.4 TESTING

Testing is a critical element of software quality and assurance and represents the ultimate review of specification design and coding. It is a vital activity that has to be enforced in the development of any system. This could be done in parallel during all the phases of system development. The feedback received from these tests can be used for further enhancement of the system under consideration. The main type of test carried out in Personal Financial Advisor is Unit Testing and Integration Testing.

5.4.1 Unit Testing

A series of stand-alone tests are conducted during Unit Testing. Each test examines an individual component that is new or has been modified. A unit test is also called a module test because it tests the individual units of code that comprise the application. Unit tests focus on functionality and reliability, and the entry and exit criteria can be the same for each module or specific to a particular module. Unit testing is done in a test environment prior to system integration. If a defect is discovered during a unit test, the severity of the defect will dictate whether or not it will be fixed before the module is approved.

In **Wordpress App Integrator** each component i.e. each form is tested individually to verify that the detailed design for unit has been correctly implemented. Initially the flow of control and data through that page is checked. In a page, each control is further tested in unit testing. The process is done in all the forms of the system. For every form inputs are varied and tested day by day.

CHAPTER 6

CONCLUSION AND FUTURE ENHANCEMENT

6.1 CONCLUSION

The project 'Wordpress App Integrator' enables the user to extract thousands of contents in a single click. This system helps to release a blog with the needed contents in a simple way. By buying the SQL dump the customer can easily load all the contents of dump to their database just by running the dumped sql script from MySql browser.

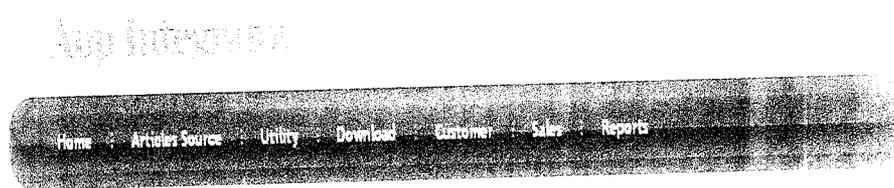
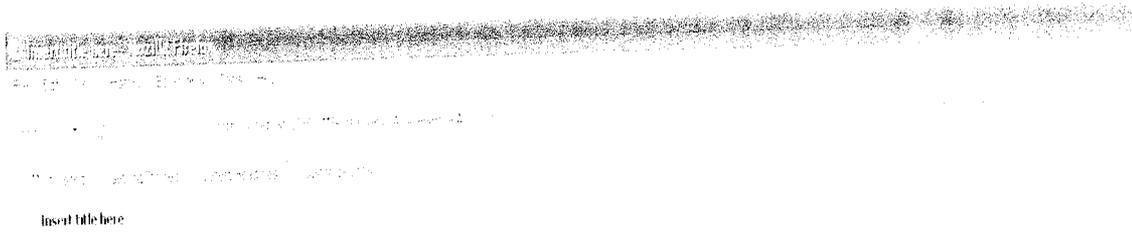
Thus this project saves the time and work of user from manually copying and using the content by opening all the urls from the needed websites.

6.2 FUTURE ENHANCEMENT

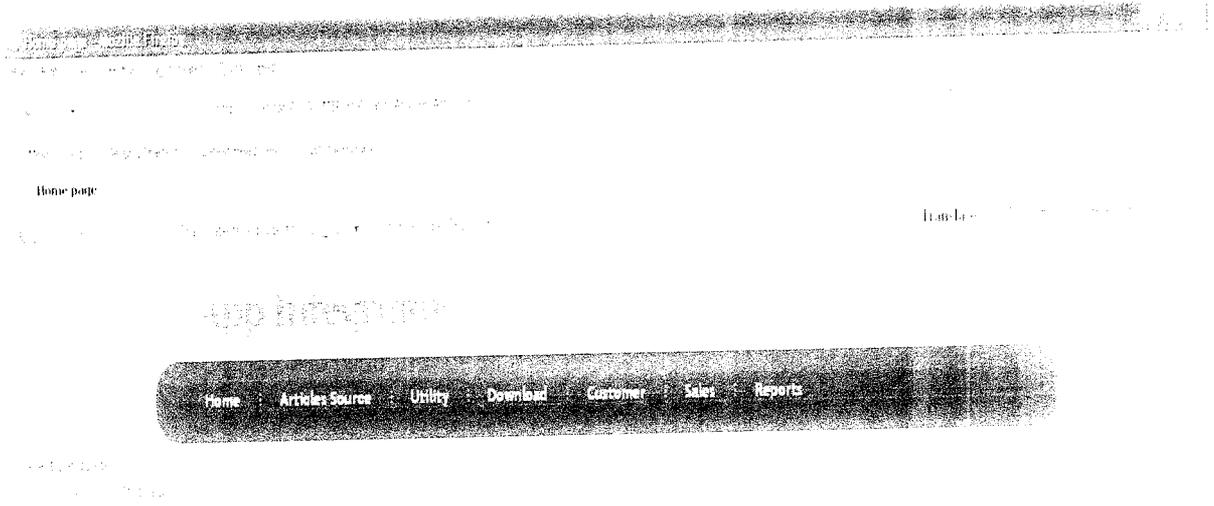
- ☞ In this system contents from particular 4 websites are extracted. In future, if needed, it can extend to extract content from other websites on demand.
- ☞ Now English contents are directly extracted and stored into database. In future other language contents are need to be extracted and translated using Google Translator and then stored into database to avoid exact duplication of contents in website since duplicate contents are avoided to display under search engines.

APPENDIX-SCREEN SHOTS

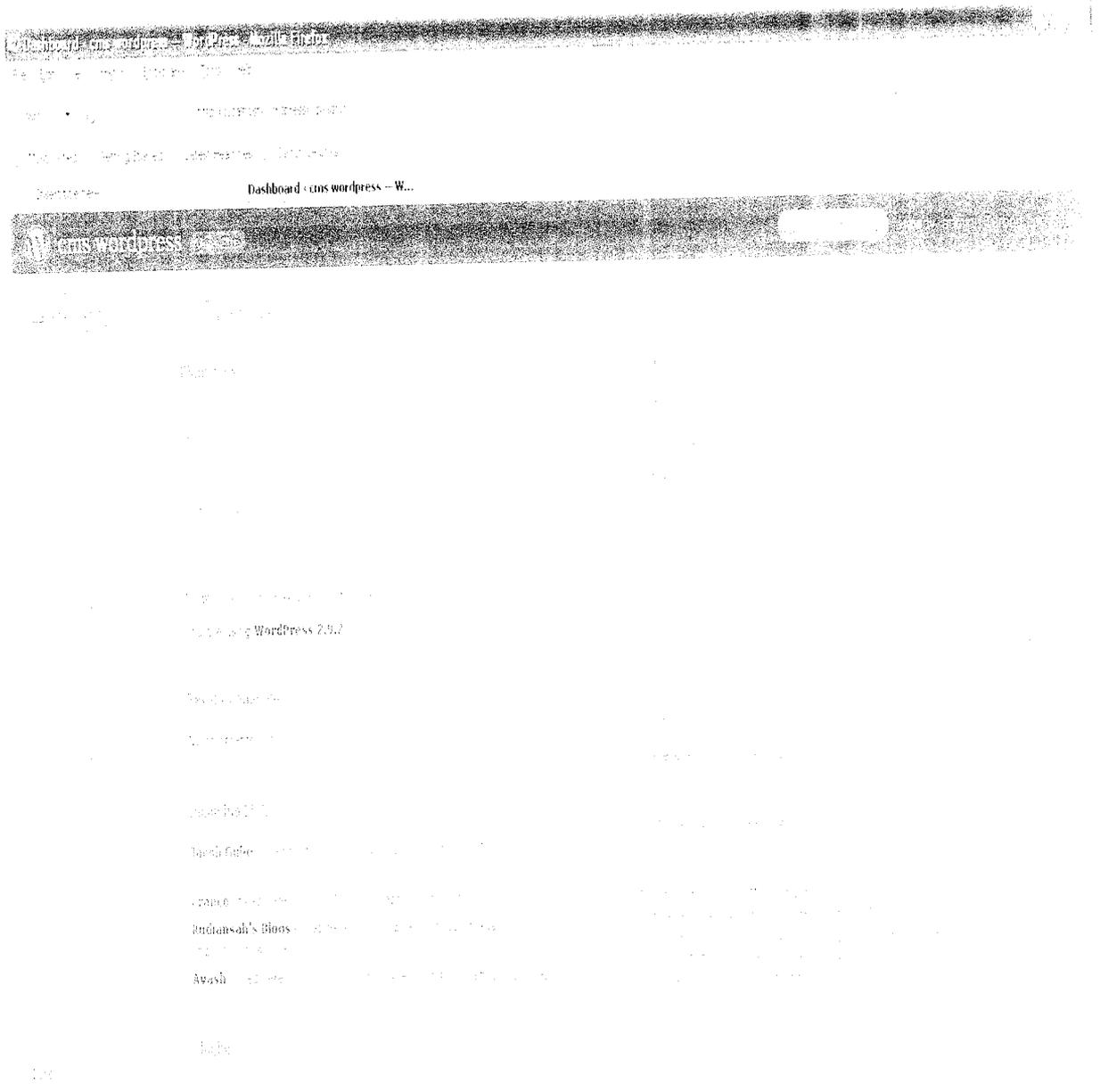
Home:



French Content In Yahoo Answers:



Wordpress home:



Wordpress localhost page-Sample:



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[Contact](#)
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QUESTION: cholesterol? or ms w...

The body's cholesterol levels are controlled by the liver. The liver produces cholesterol and also breaks it down into smaller particles that can be transported through the bloodstream. The liver also regulates the amount of cholesterol in the blood by producing or breaking down cholesterol as needed.

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Customer Information:



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