R.V. College of Engineering

(Autonomous Institution affiliated to VTU)

Department of Information Science and Engineering

Bangalore – 560059

FACULTY EXPERTISE SYTSEM

PROJECT REPORT

Submitted by

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Under the guidance

of

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in partial fulfillment for completion

of

Database Management Systems Lab

Bachelor of Engineering
Department of Information Science & Engineering

R.V. COLLEGE OF ENGINEERING

BANGALORE - 560059

(Autonomous Institution Affiliated to VTU, Belgaum)

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

CERTIFICATE

Certified that the project work entitled " Faculty Expertise System" carried out by Ms. Haripriya Ramesh, USN: 1RV14IS012 and Ms. Khadija Zavery, USN: 1RV14IS015 who are bonafide student of R.V College of Engineering, Bangalore, in partial fulfillment for the completion of **Database Management Systems Lab (12IS64),** the requirement for the award of degree of **Bachelor of Engineering** in **Department of Information Science & Engineering** of the Visvesvaraya Technological University, Belgaum during the year **2016-17**. It is certified that all corrections/suggestions indicated for the internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed by the institution for the said degree.

Signature of	Signature of	Signature of	Signature of
Lab Incharge-1	**Lab Incharge-2**	**HOD**	**Principal**
Prof. B K Srinivas	**Prof. Geetha V**		
Assistant Professor,	**Assistant Professor**		
Department of ISE	**Department of ISE**		

Semester End Examination

Name of Examiners **Signature with date**

1.

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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

DECLARATION

We, Ms. Haripriya Ramesh, USN: 1RV14IS012 and Ms. Khadija Zavery, USN: 1RV14IS015 student of sixth semester B.E., **Department of Information Science & Engineering. ,** hereby declare that the project titled "**Faculty Expertise System**" has been carried out and submitted in partial fulfillment for the completion of **Database Management Systems Lab (12IS64),** the requirement for the award of degree of **Bachelor of Engineering** in **Department of Information Science & Engineering.**

Place: Bangalore **Name** **Signature**

Date: **1.**

2.

ACKNOWLEDGMENT

My project was the result of the encouragement of many people who helped in shaping it and provided feedback, direction and valuable support. It is with hearty gratitude that I acknowledge their contributions to my project.

I would like to thank my project guide Dr. Cauvery N. K., without whom this would not have been possible. I'd like to thank my DBMS lab-in-charge Mrs Padmashree T, Asst Professor, Department of Information Science & Engineering, and Mrs Merin Meleet, Asst Professor, Department of Information Science & Engineering, for the constant help and support extended towards me during the course of the project.

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Last, but not the least, I would like to thank my family and friends who provided me with valuable suggestions to improve my project.

Haripriya Ramesh - 1RV14IS012
Khadija Zavery - 1RV14IS015

ABSTRACT

Faculty Expertise System is a portal for department to maintain the faculty's complete information. It helps the department head and the faculty to view his/her requirement. The Faculty Database Management System manager is designed only for faculty for maintaining and viewing records.

A faculty module will have the responsibility of maintaining his/her personal details, Project details, Workshop details, educational details, patents and paper details, publication details, etc. It will help the Head of Department to check and retrieve the faculty information as and when required. Provision has been provided for the faculty to update, delete or modify any of the relevant data that has been entered through the use of appropriate user interfaces.

Project ensures that it will cover all the responsibilities of a faculty and maintain all the records efficiently.

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Chapter 1

Introduction

1.1 Purpose

The purpose of the proposed system is to help the FACULTY to maintain their complete information. It also helps faculty to update the student details as and when required and retrieve the details. It will department heads to view the required information. The proposed system will help with the maintenance of faculty records in case of any urgent need for the department when it comes to accreditation and faculty information retrieval

1.2 Scope

This system has its scope with every faculty in the department as every one of them needs to give the details to the department. This system provides advanced way to store records of faculties This portal can be used by every staff member (teaching) and making it easy for them. Once the design for the department is set, all the faculty in the college can use this system.

1.3 Motivation

These days everything is stored in databases. But our still teachers still use the traditional files to store information. To get the advantages of technology we are creating student Information Management system which helps the faculty to upgrade themselves from traditional files to database. Also there are many ways to maintain database in an effective and efficient manner. So that the information can be easily stored and retrieved as and when required

1.4 Literature Survey

Having faculty to teach various courses in a college happens in every engineering college. Every teaching staff has some basic information about them that is required by the college or to start from the department. Each teaching staff teaches a bunch of students ranging from 10 students to a whopping 80-90 students. These faculty members may teach in any class within the 8 semesters depending on his domain. The information pertaining to each faculty is kept highly confidential by the department.

From the beginning of the college to till date, such faculty information is maintained in traditional files. If a faculty or the department heads want to access any of the information related to the faculty, they have to search a bunch of files to get the required information. Also keeping such files for very long duration is tedious. To overcome all these issues we can go for developing a database management system for mentors. The proposed system aim's to provide a new service known as Faculty Expertise System, so that the staff can store and manage their own information through database which is advanced.

Chapter 2

Software Requirements Specification

2.1 Overall Description

The proposed system has been designed to help the faculty store detailed information of themselves and allows them to update the information at any time. The data of the faculty is secured at every instance of time . The admin/department heads can also view the permitted information and will not have any authority to change or modify the information.

2.2 Specific Requirements

The requirements of the Data-based management information system are to develop:

A web based front end for entering student details including the Name, date of join, address, qualification, designation etc.

A web based front end for searching the information relating to a given EID. GUI for update and retrieve details of faculty.

2.2.1 Functionality

The two main user groups Faculty and Admin(head of department) and other heads.

Therefore, the requirements could be efficiently analyzed depending on the user group and the functionalities they should be allowed to perform.

2.2.1.1 Functional Requirement –User

The Head of the department is the administrator of the database .

Each faculty has his separate account to keep track of his data

Every faculty possesses a unique user name and a password after registration.

Faculty members can create new faculty records and update already existing student details with ease.

Each faculty has his separate account to view his/her data separated by a ESSN, user name and password.

Faculty is the one who can view their personal, bank, project, workshop, paper, course, and doctorate details.

2.2.1.2 Security Requirements

It is of utmost importance to ensure that there is restriction on who can access the database. Faculty must provide a unique username and his password and can access their system. Each Faculty has his password with which he can edit or delete his account..

2.2.2 Performance Requirement

The PCs used must be at least Pentium 4 machines so that they can give optimum performance of the product.

In addition to these requirements, the system should also embrace the following requirements:- Reliability: The system should have little or no downtime and be able to handle multiple concurrent users.

Ease of Use: The general and administrative views should be easy to use and intuitive. Online help and documentation should be provided.

System and Browser compatibility Testing: The system should be accessible on the following browsers - Microsoft Internet Explorer 9.0+, Google Chrome and Mozilla 3.6+.

2.2.3 Design Constraints

The designers must design the database is such a way that any change in the information of a student should be updated and saved effectively in the database despite the fact that multiple counsellors access the database.

2.2.4 Hardware Requirement

Operating System: Windows xp ,Windows Vista, Windows 7,Windows 8.,Linux

Processor: Pentium 3.0 or higher

RAM: 256 Mb or more

Hard Drive: 10 GB or more

2.2.5 Software Requirement

Front End : PHP(Personal Home Page)

Back End : Microsoft SQL server studio 2005

Operating System : Microsoft Windows 7, Linux

2.2.6 Interfaces

Two Types of interfaces are generally provided in this Project. Faculty are authorized to create, update and view student details and Admin only to view the information.

2.2.6.1 User Interfaces

The database designed should be very easy to use and user friendly.

Admin cannot modify the details of others.

Only the Faculty can update a record.

Both the administrator(Head of Department) and user(Faculty) can view information.

2.2.6.2 Communication Interfaces

Communication between database and front end pages is through PHP , which is auto configured application for virtual server in a computer which is automatically configured for XAMP Server. XAMP server is licensed software powered with database usage which is connected with frontend with a connection string used is PHP pages. We can have two types of authentication that are administrator and SQL server. It has inbuilt API for connectivity.

Chapter 3

High level design

3.1 Design Considerations

3.1.1 Assumptions and Dependencies

3.1.1.1 Assumptions

- It is assumed new faculty record is created and updated only by the faculty himself.
- Faculty information in each domain is to be recorded.

3.1.1.2 Functional Dependencies

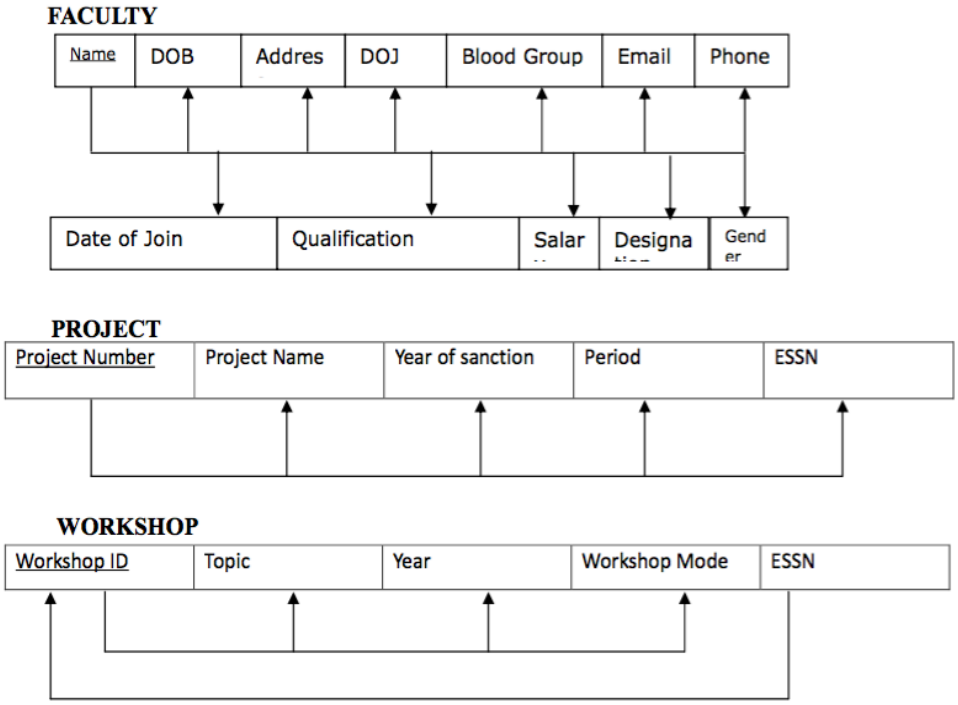

Figure 3.1 Functional Dependency

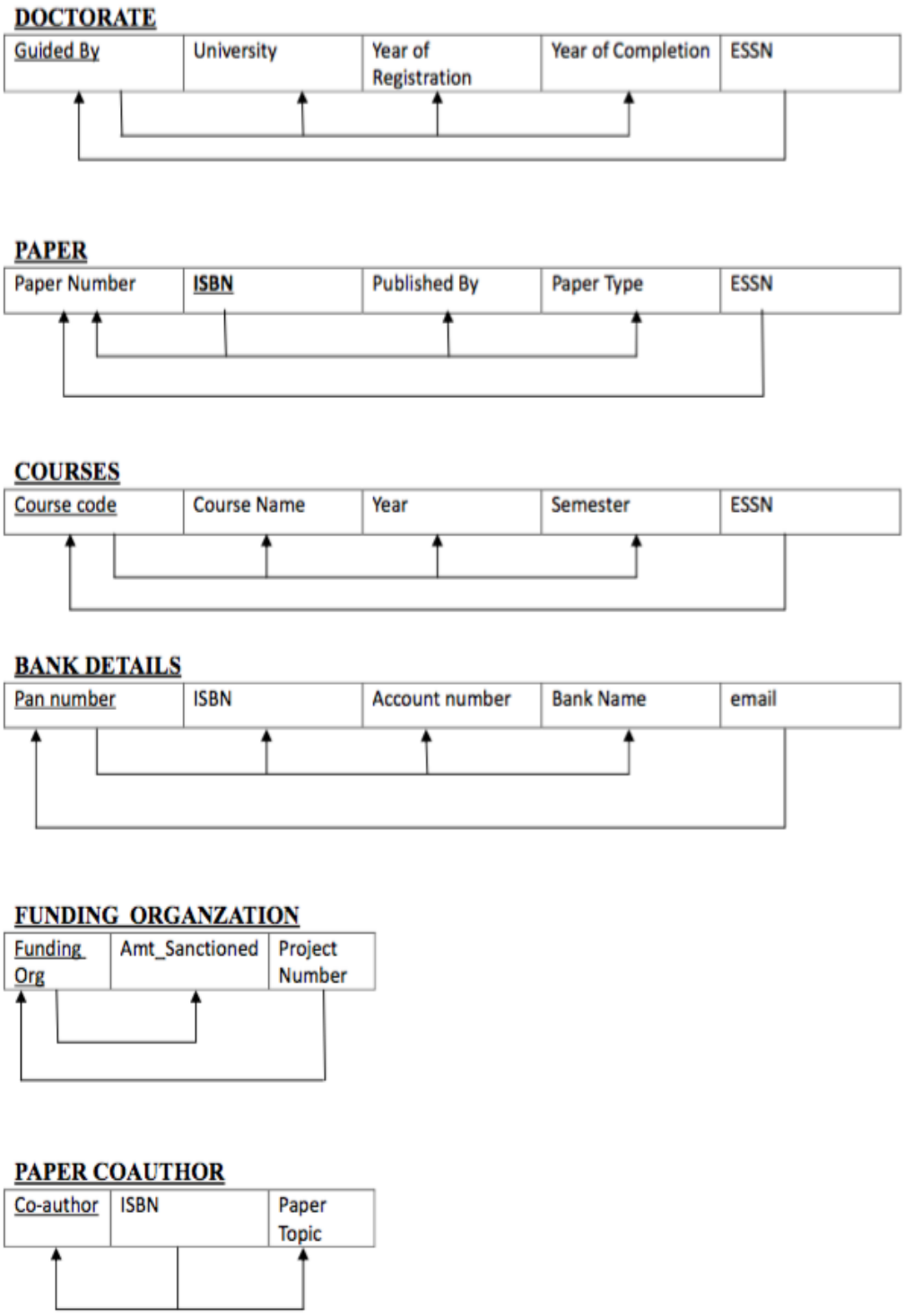

Figure 3.1 Functional Dependencies (contd.)

3.1.2 General Constraints

The design involves the production of technical and visual prototypes. This stage has some non- technical aspects such as gathering of web content; content can be one of the biggest problems in web projects. For the server side programming and other technical aspects of the design emphasis will be laid on such design concepts. The goal is to make the system easier to adapt, enhance, test and use.

Some of the general constraints are:

- Clarity of the information: Each information inserted in the project shall be clear, without ambiguity.
- Structuring: For guaranteeing reusability of data and its information for different views and layouts the structuring of data and separation of content, layout, and structure should be supported in future.
- Verifiability of the information: Each item of information inserted in the project shall be verifiable.

3.2 System Block Diagram

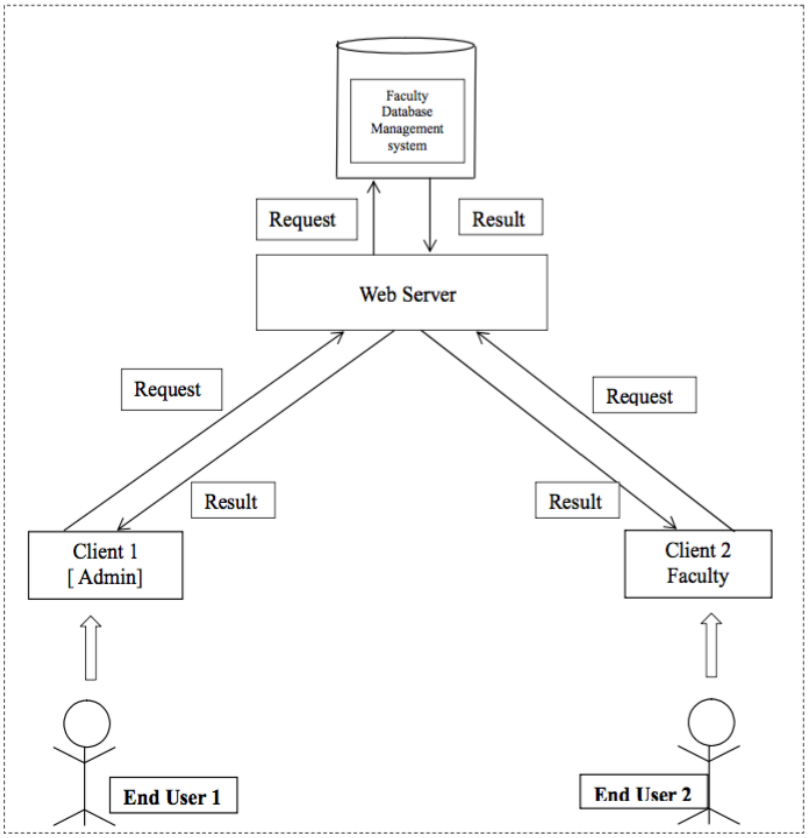

Fig: 3.2 System Block Diagram

3.3 Entity Relationship Diagram

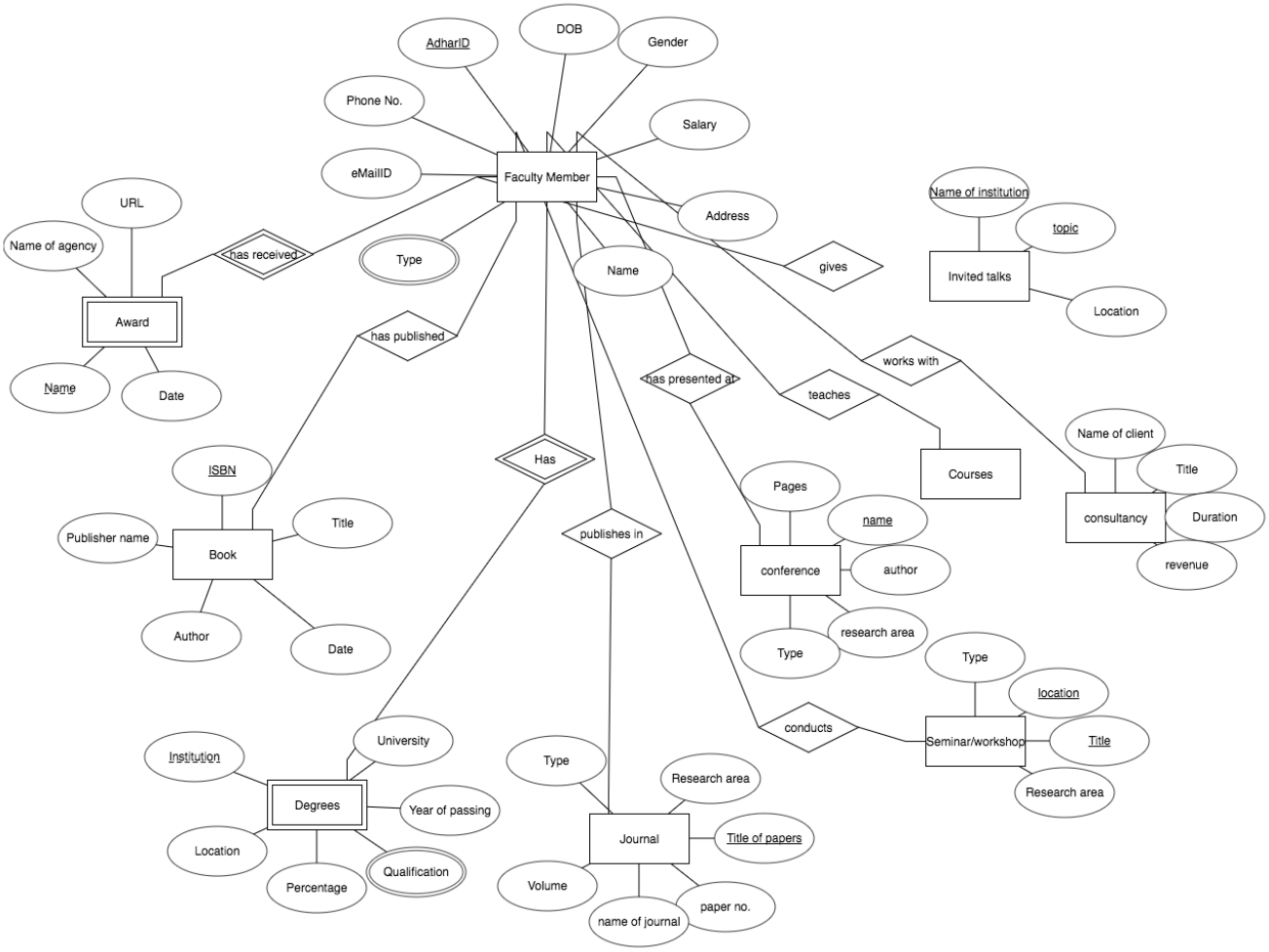

Fig: 3.3 E-R Diagram

3.4 Data Flow Diagram

3.4.1 Level 0 Diagram

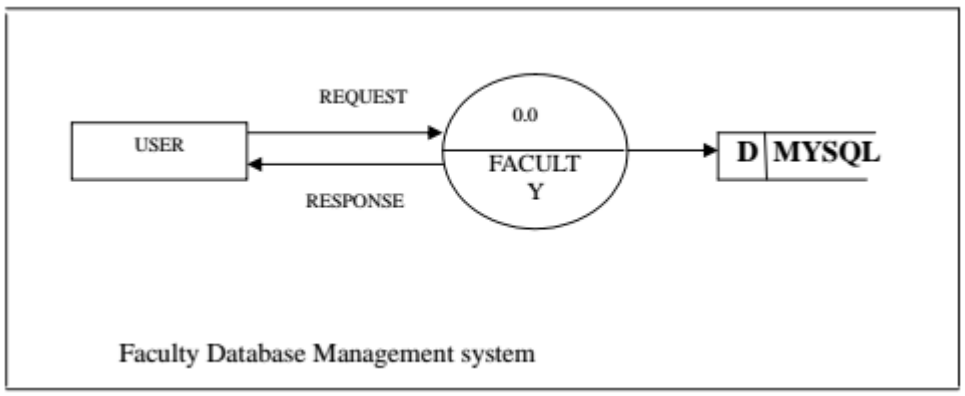

Fig. 3.4.1 dataflow diagram level 0

3.4.1 Level 1 Diagram

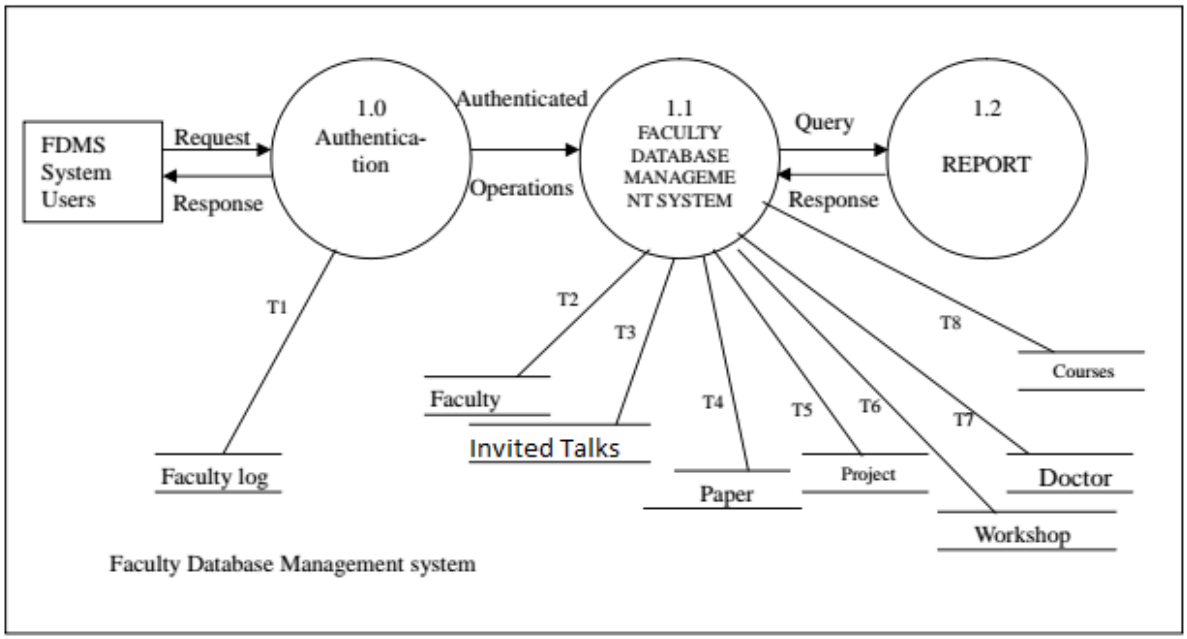

Fig. 3.4.2 dataflow diagram level 1

Chapter 4

Detailed Design

4.1 Schema Diagram

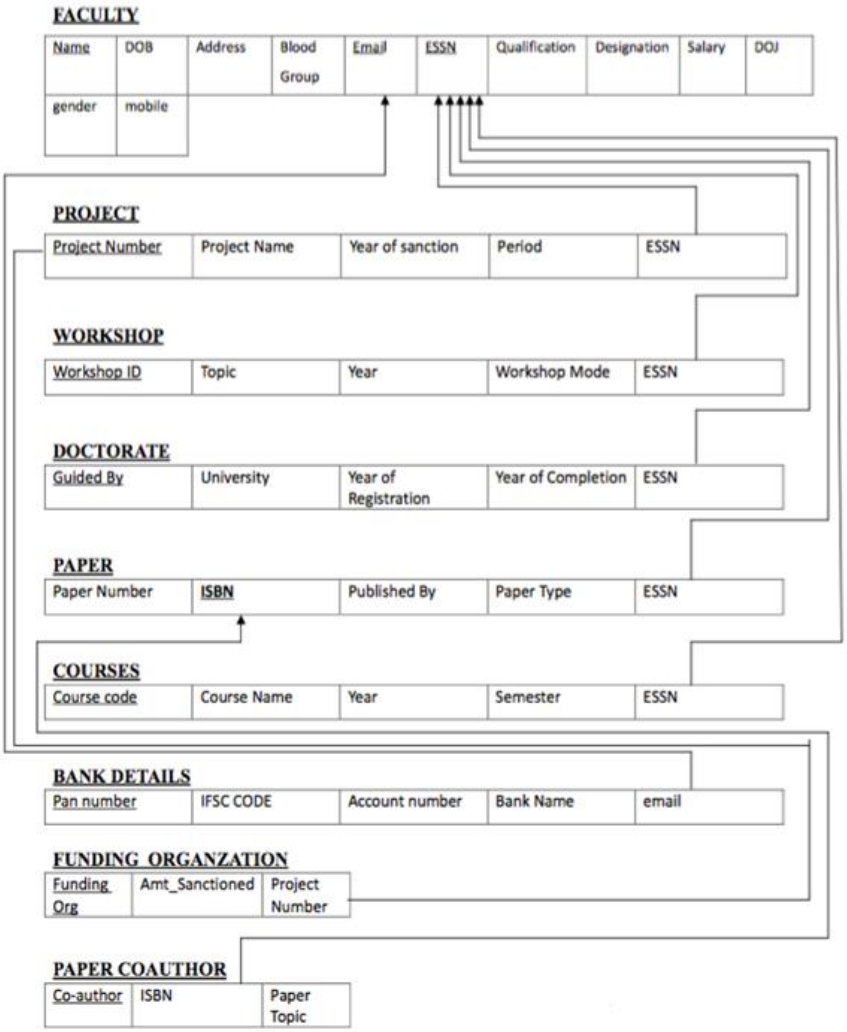

Fig. 4.1 Schema diagram

4.2 Definition of tables

```
CREATE TABLE `award` (
 `award_name` varchar(255) NOT NULL,
 `award_eid` varchar(255) NOT NULL,
 `url` varchar(255) NOT NULL,
 `date` datetime NOT NULL,
 `agency_name` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `book` (
 `ISBN` varchar(255) NOT NULL,
 `role` int(255) NOT NULL,
 `book_chapter` varchar(25) NOT NULL,
 `chapter_names` varchar(255) DEFAULT NULL,
 `title` varchar(255) NOT NULL,
 `edition` int(255) NOT NULL,
 `other_authors` varchar(255) NOT NULL,
 `publisher_name` varchar(255) NOT NULL,
 `date` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE `conducts` (

 `seminar_title` varchar(255) NOT NULL,
 `seminar_SSN` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;


CREATE TABLE `conference` (

 `conf_name` varchar(255) NOT NULL,
 `date_from` varchar(255) NOT NULL,
 `date_to` varchar(255) NOT NULL,
 `venue` varchar(255) NOT NULL,
 `conf_type` text NOT NULL,
 `pages` int(11) NOT NULL,
 `abstract` varchar(255) NOT NULL,
 `research_area` varchar(255) NOT NULL,
 `title` varchar(255) NOT NULL,
 `author` varchar(255) NOT NULL,
 `other_authors` varchar(255) NOT NULL,
 `url` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `consultancy` (
 `client_name` varchar(255) NOT NULL,
 `title` varchar(255) NOT NULL,
 `start_date` date NOT NULL,
 `completion_date` date NOT NULL,
 `author1` varchar(255) NOT NULL,
 `author2` varchar(255) NOT NULL,
 `revenue` int(255) NOT NULL,
 `summary` varchar(255) NOT NULL,
 `lab` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE `courses` (

 `course_title` varchar(255) NOT NULL,
 `program` varchar(255) NOT NULL,
 `semester` int(11) NOT NULL,
 `year` int(11) NOT NULL,
 `no_of_students` int(11) NOT NULL,
 `pass_percentage` int(11) NOT NULL,
 `course_SSN` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE `degrees` (
 `qualification` varchar(255) NOT NULL,
 `institution` varchar(255) NOT NULL,
 `location` varchar(255) NOT NULL,
 `university` varchar(255) NOT NULL,
 `join_year` varchar(255) NOT NULL,
 `pass_year` int(11) NOT NULL,
 `percentage` int(11) NOT NULL,
 `degree_eid` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `delivers` (
 `IT_SSN` varchar(255) NOT NULL,
 `IT_title` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;


CREATE TABLE `faculty` (

 `name` text NOT NULL,
 `eid` varchar(255) NOT NULL,
 `email` varchar(255) NOT NULL,
 `dob` date NOT NULL,
 `password` varchar(255) NOT NULL,
 `designation` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE `faculty_type` (
 `fac_type` varchar(255) NOT NULL,
 `fac_SSN` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE `has_published` (
 `book_SSN` varchar(255) NOT NULL,
 `book_ISBN` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE `invited_talks` (

 `institution` varchar(255) NOT NULL,
 `it_title` varchar(255) NOT NULL,
 `date` date NOT NULL,
 `participation` varchar(255) NOT NULL,
 `research_area` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `journal` (

 `journal_type` text NOT NULL,
 `rarea` varchar(255) NOT NULL,
 `author1` varchar(255) NOT NULL,
 `author2` varchar(255) NOT NULL,
 `author3` varchar(255) NOT NULL,
 `journal_name` varchar(255) NOT NULL,
 `paper_title` varchar(255) NOT NULL,
 `abstract` varchar(255) NOT NULL,
 `key_words` varchar(255) NOT NULL,
 `impact_factor` int(11) NOT NULL,
 `citation` varchar(255) NOT NULL,
 `url` varchar(255) NOT NULL,
 `add_info` varchar(255) NOT NULL,
 `volume` varchar(255) NOT NULL,
 `paper_no` varchar(255) NOT NULL,
 `page_no` varchar(255) NOT NULL,
 `date` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE `patent` (

 `type` varchar(255) NOT NULL,
 `title` varchar(255) NOT NULL,
 `date` varchar(255) NOT NULL,
 `applicant1` varchar(255) NOT NULL,
 `applicant_others` varchar(255) NOT NULL,
 `details` varchar(255) NOT NULL,
 `url` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE `presented_at` (
 `conf_name` varchar(255) NOT NULL,
 `conf_SSN` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

4.3 Definition of relations and the cardinality ratios of the participating entities

S. No	Participating Entity 1	Relation	Participating Entity 2	Cardinality Ratio
1.	Faculty	Has received	Award	1:N
2.	Faculty	Has published	Book	M:N
3.	Faculty	Has	degrees	1:N
4.	Faculty	Publishes_in	Journal	M:N
5.	Faculty	Conducts	Seminar_Workshop	M:N
6.	Faculty	presents_at	Conference	M:N
7.	Faculty	teaches	Courses	1:N
8.	Faculty	works_with	Consultancy	M:N
9.	Faculty	gives	Invited_talks	M:N
10.	Faculty	has	Patents	1:N

Chapter 5

Implementation

5.1 Selection of the platform

The platform selected for the project is windows which supports Microsoft SQL Server 2005 as it is compatible with PHP in the front end, MYSQL in the back end and is supported by the Microsoft SQL Server.

5.2 Selection of the programming language

Web applications are an extension of a web server PHP(Personal Home Page). Web applications are either service oriented or presentation oriented. A presentation oriented web application produces interactive web pages containing mark up languages like (XML and HTML) and dynamic content in response to requests (PHP). PHP is used in programming between back end and front end.

5.2.1 Front End: PHP

The programming language used for the development work is PHP. The reason for selection of this language includes among many others the following few.

- Open Source, PHP is completely free.
- PHP can be easily embedded directly into HTML.
- Platform independent can run on Windows Linux or Mac servers.
- Run faster on the internet and easily integrate AJAX, Callback etc.
- Interfaces very easily with Apache/MySQL
- Lots of good books and on-line help.
- It's available with documentation in many languages.
- Easy to learn compared to many other scripting languages. It has a syntax that is easy to parse and is actually rather human-friendly.
- Lots of hosting services have it ready to use, no special configuration.
- Pretty easy to access other web-based tools through PHP i.e. google maps, etc.
- Lots of good source code out there to use and/or learn from, as well as many useful libraries for working with PDFs, graphics, etc.

5.2.2 BACK END: MYSQL(Microsoft SQL server Express)

MySQL is a relational database management system (RDBMS) that runs as a server providing multi-user access to a number of databases.

- MySQL is an open source tool.
- MySQL is a popular choice of database for use in web applications, and is a central component of the widely-used LAMP web application software stack — LAMP is an acronym for "Linux, Apache, MySQL, PHP".
- MySQL is primarily an RDBMS and therefore ships with no GUI tools to administer
- MySQL databases or manage data contained within.
- Microsoft SQL server Express Management studio provides an ease in creating tables by a graphical as well as query based interface.
- MySQL implements the following features, which some other RDBMS systems may not:
- Multiple storage engines, allowing one to choose the one that is most effective for each table in the application.
- Commit grouping, gathering multiple transactions from multiple connections together to increase the number of commits per second.

5.2.3 Server: XAMP server

- Microsoft SQL Server features configurable error messages,DBMS-based authentication databases, and content negotiation. It is also supported by several graphical user interface(GUIs).
- It is auto configured with Microsoft visual studio,so there is a ease of accessing database and creating reports and views.
- Microsoft provides a free software i.e, Microsoft SQL Express which is free licensed and is better than any other SQL system in case we want to use with Microsoft Visual Studio .The application is available for a wide variety of operating systems, including Unix,GNU,FreeBSD,Linux,Solaris, Novell Netware, Mac OS X,Microsoft Windows,OS/2,TPF, and eComStation.
- These can range from server-side programming language support to authentication schemes. Some common language interfaces support Perl,Python,Tcl, and PHP. Popular authentication modules include mod_access, mod_auth_digest, the successor to mod_digest, mod_auth and Implementation mod_digest.

5.3 Programming Coding Guidelines

5.3.1 PHP Coding Guidelines

5.3.1.1 PHP Tags

- PHP scripts can be either embedded in XHTML documents or can be stored in separate files thar are referenced in XHTML documents.
- PHP scripts are always enclosed in between two PHP tags.
- This tells your server to parse the information between them as PHP.

5.3.1.2 PHPStatements

- PHP statements must be inside of PHP tags to be processed by the PHP interpreter.
- Each PHP statement must end with a semi-colon, which tells the PHP interpreter that the statement is complete.
- PHP interpreter condenses all sequential whitespace in PHP scripts to a single whitespace.

5.3.1.3 PHPComments

PHP has two forms of comments:

- Single-line comments begin with a double slash(//) or #.
- Multi-line comments begin with "/*" and with "*/".

5.3.1.4 PHP Functions

- These are literally hundreds of built-in PHP functions that to do everything returning the current date and time on the server to pulling data out of database.
- A function might take zero arguments(for example, phpinfo(),which returns information on the PHP environment) or it might take several arguments(for example, mail(),which takes three required and two required and two optional arguments).

•

5.3.1.5 PHPVariables

- A variable name must start with a letter or an underscore .
- A variable name can only contain alpha-numeric characters and underscores(a-Z, 0-9, an_).
- A variable name should not contain spaces. If a variable name is more than one word, it should be separated with underscore($my_string), or with capitalization($myString)

Chapter 6

Testing

Software Testing is the process used to help identify the correctness, completeness, security and quality of the developed computer software. Testing is the process of technical investigation and includes the process of executing a program or application with the intent of finding errors.

Test strategy tells the test plan of the project. It also tells how to test and what to test. The testing done in this project are Unit testing and Integration testing.

- Features to be tested: Form navigation and generation of reports.
- Items to be tested: Functioning of forms and buttons.
- Purpose of testing: To check the effective working of Faculty Expertise System.
- Pass / Fail Criteria: Changes made on the back end like recreation of tables should affect the front end as well. If so ,the test is successful.
- Assumptions and Constraints: Tables should be created and values have to be entered at the back end before testing and entity integrity and referential integrity constraints should be taken care.

6.1 Unit Testing

Unit testing is a software verification and validation method in which a programmer tests if individual units of source code are fit for use. Some of the tests performed in the project are insert, delete, retrieve and modify.

6.1.1 Unit Test Case 1

Sl No. of test case :	1
Name of test :	New User Registration checking
Item / Feature being tested :	New User button
Sample Input	User full name,DOB,email ID,password and designation.
Expected output	Login page appears if all fields are filled and if email and date of birth are filled in the correct format.

Actual output	Login page appears
Remarks :	Test succeeded

6.1.2 Unit Test Case 2

Sl No. of test case :	2
Name of test :	Check login test
Item / Feature being tested :	Login button
Sample Input	USERNAME='someone@example.com',PASSWORD='123' Upon mouse click on button.
Expected output	Welcome page appears if login information is correct. If not, "Wrong Username or Password" appears. If username is not an email ID,then "invalid username" message appears.
Actual output	Welcome page appears
Remarks :	Test succeeded

6.1.3 Unit Test Case 3

Sl No. of test case :	1
Name of test :	Update test
Item / Feature being tested :	Submit button
Sample Input	Name='khadija',dob='21-12-1995', gender='female', email= khadijatzavery95@gmail.com', Designation='Professor',Password = '123'
Expected output	Appearing of the next form and entry in database

Actual output	Appearing of the next form and entry in database
Remarks :	Test succeeded

6.2 System Testing

6.2.1 System Test Case 1

Sl No. of test case :	1
Name of test :	System overall test
Item / Feature being tested :	index.php,awards.php,etc
Sample Input	Data entered through forms
Expected output	Updated data displayed in generated reports
Actual output	Updated data displayed in generated reports
Remarks :	Test succeeded

Chapter 7

Results

7.1 Snapshots

Fig. 7.1 Snapshot of Login Page

This is the home page. The link “New User” will take the user to registration forms page and the link “Login” will take the user to the dashboard page.

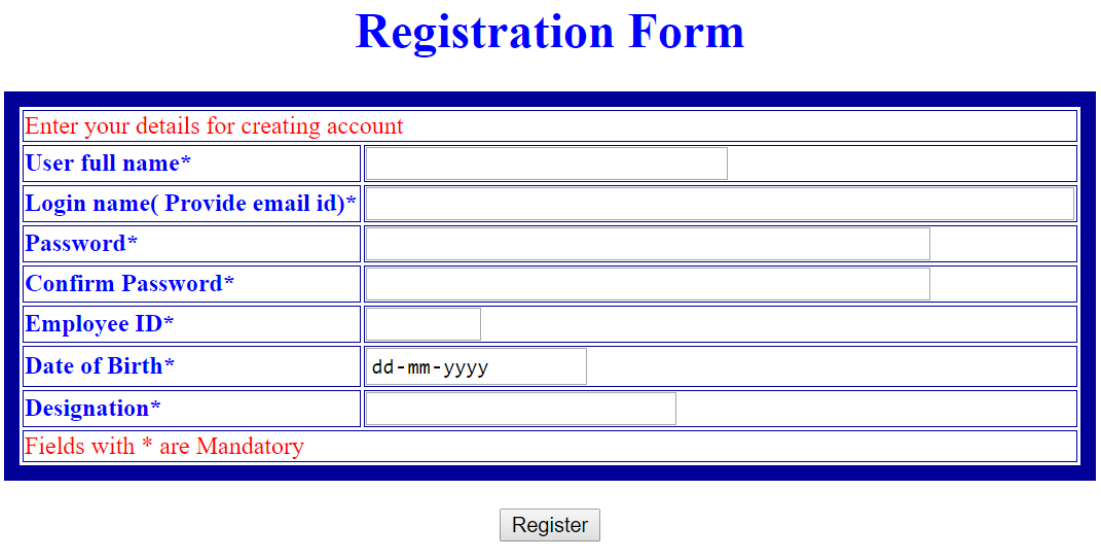

Fig. 7.2 Snapshot of Registration Form

This is the sign-up page for a new user. Password needs to be entered twice for verification.

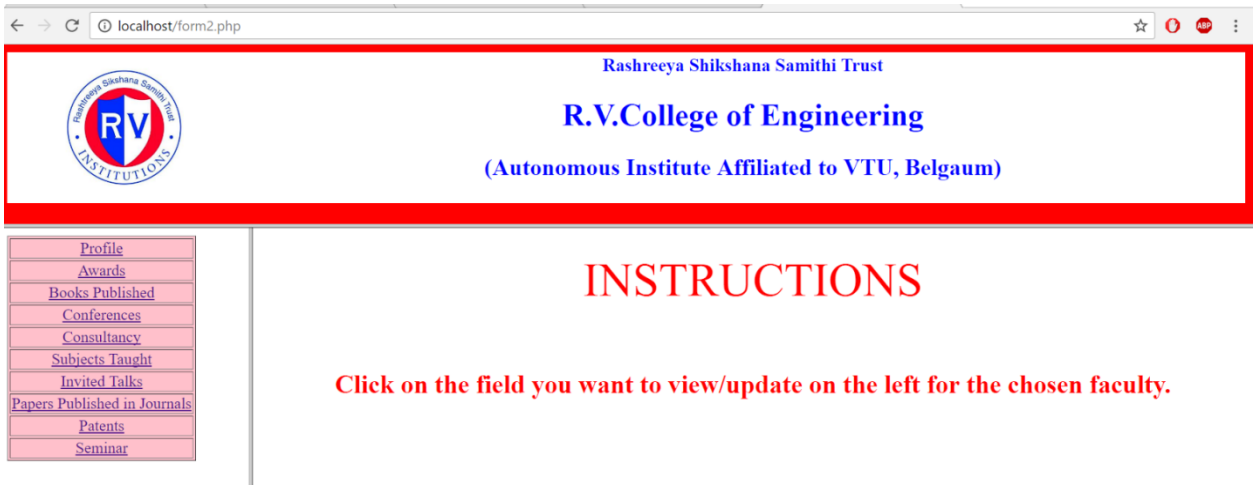

Fig. 7.3 Snapshot of field selection page

This is the form that helps the faculty choose what details they need to fill.

Fig. 7.4 Snapshot of the form to fill award details

This is the form that helps the faculty enter details about any awards won.

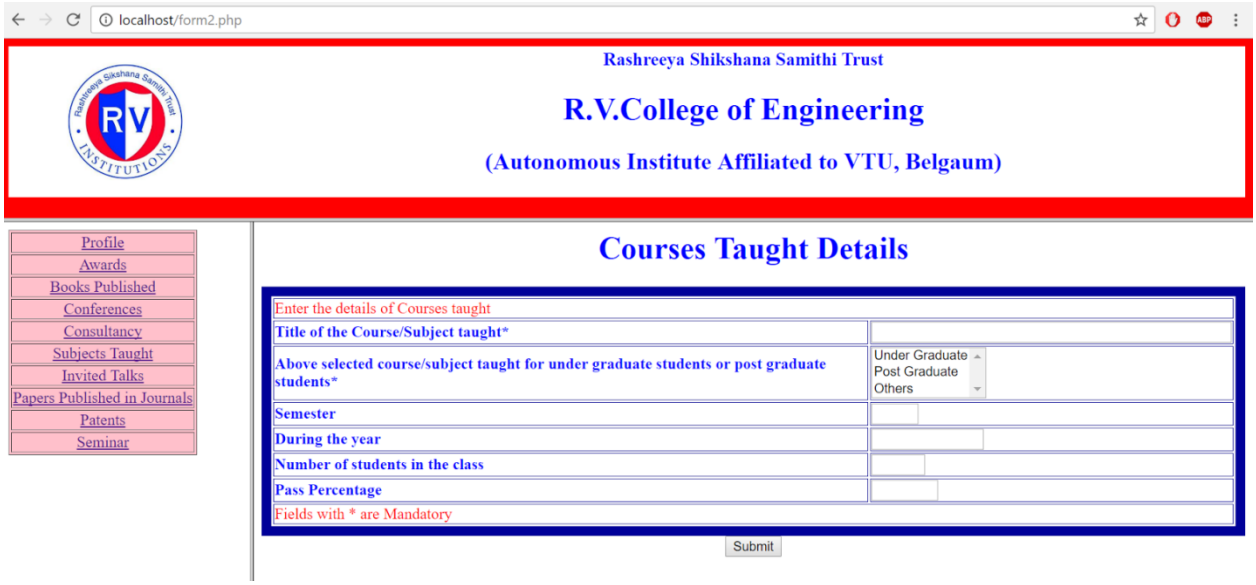

Fig. 7.5 Snapshot of the form to fill course details

This is the form that helps the faculty enter details about the courses they teach

7.2 Advantages of the project

This project is built to provide the following advantages.

- The Faculty Expertise System software keeps track of a Faculty's complete details
- Faculty Expertise System provides the facility of username and password for each faculty so that they can easily view their information without taking help of administrator.
- Faculty Expertise System provides access to most of the details required by a faculty member
- Faculty Expertise System allows the faculty to view their required details and the department heads to look into the staff details
- Faculty Expertise System provides staff members to create and update details efficiently.

7.3 Limitations of the project

The project has its own limitations

- Has limited information on certain domains.
- A faculty is restricted by viewing, adding and updating, deleting only the information that is related to him.
- Admin has only viewing powers.

Chapter 8

Conclusion

The Faculty Expertise System focuses on reducing the human efforts for finding all the records of a faculty that can help the user in his work . Thus faculty database management system gives customized results all the time. the faculty database management system is tested and re-tested to ensure its effectiveness and provide error free functionality to end user. the faculty database management system hence assures saving of time in finding details of a student in an appropriate way.

8.1 Future Enhancement

The faculty expertise system can overcome the previously stated limitations by adding few extra features to it such as faculty database management system will provide functionality to take in additional information from other domains.

REFERENCES

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[3] C.J.Date, A.Kannan, S.Swamynatham, *A Introduction to Database Systems*, 8th edition, Pearson Education, 2006.

[4] Ian Sommerville, *Software Engineering,* 4th Edition, Pearson Education.

Appendix A

List of Acronyms

1. FDMS : Faculty Database Management System
2. SRS: Software Requirement Specifications
3. ER: Entity Relationship
4. OS: Operating System
5. RAM: Random Access Memory
6. SQL: Structured Query Language
7. PHP: Hypertext Preprocessor(Personal Home Page)
8. RDBMS: Relational Database management system

Appendix B
Coding

Index.php – home page

```
<html>
<head>
<script type="text/javascript">

function validateForm() {
        submitOK="true";
  var x = document.forms["myForm"]["uname"].value;
  var atpos = x.indexOf("@");
  var dotpos = x.lastIndexOf(".");
  if (atpos<1 || dotpos<atpos+2 || dotpos+2>=x.length) {
    alert("Not a valid e-mail address");
    submitOK="false";
                return false;
  }
}
</script>

<title>
Login
</title>
</head>
<body background="college1.jpg" valign="center"
bgcolor="white"   onLoad="document.forms[0].uname.focus()">

<center>

<table border=15 valign="center" bgcolor=blue><tr><td valign="center">
<center><h2><img src="rvce.png" width=900 height=90></center></tr></td></table>
<hr>
<table border=50 valign="center" ><tr><td valign="center" width=50%>
<center><h1><font color=blue>Faculty Expertise System</font></h1></center></tr></td>
<tr><td>
<center><h4><font color=blue><b>(Autonomous Institute under
VTU)</b></font></h4></center></tr></td>

<form name= "myForm" method="post"  action="login2.php" onsubmit="return
validateForm()">

<tr><td>
<center><table border=1 ><tr>
<td><font color=blue><b>Username</b></font>  <font
color=red><b>*</b></font></td><td><input type="text" name="uname" id="uname"
size=30 maxlength=30></td><td><font color=red><b>* Means mandatory
field</b></font></td></tr>
<tr>
```

```
<td><font color=blue><b>Password</b></font> <font
color=red><b>*</b></font></td><td><input type="password" name="pwd" id="pwd"
size=30 maxlength=30></td><td><font color=red><b>* Means mandatory
field</b></font></td></tr>
</table>
<input type="submit" value="login">
</center>
</table></td></tr>
</form>
<b><a href="login.html">New User</a></b>

</center>
<hr>
</body>
</html>
```

login.php – for registration of new user

```
<?php

session_start();
include("db.php");
$con=mysqli_connect("localhost", "root", "","fes");
//mysql_select_db($con,"fes");

$fname=$_POST["fname"];
$uname=$_POST["uname"];
$pwd=$_POST["pwd"];
$pwd1=$_POST["pwd1"];
$eid=$_POST["eid"];
$desg=$_POST["desg"];
$dob=$_POST["dob"];
$_SESSION['eid'] = $eid;

echo " $fname  uname=$uname  pwd=$pwd  $pwd1  $desg";

if ($uname==''||$pwd==''||$dob==''||$desg==''||$eid==''||$pwd1==''||$fname==' )
{
echo " Insufficient Data";
echo "<br><input type=submit value='Back to Registration'>";
}

else
{
if ($pwd==$pwd1)
{
$query2="select email from faculty where pwd='$pwd'";
$result2 = mysqli_query($con,$query2);
while(list($b)=mysqli_fetch_row($result2))
{         $uname=$b;    }
```

```
$rows2=mysqli_num_rows($result2);
//echo "<br>rows2=$rows2";

if ($rows2>0)
echo "User with similar details already exists";
else
{
	/*$query1="select max(id) from faculty";
	$result1=mysqli_query($query1) or die(mysql_error());
	while(list($b)=mysql_fetch_row($result1))
	{	$id=$b;		}
	$rows1=mysql_num_rows($result1);
	//echo "<br>rows1=$rows1";

	$id=$id+1;*/
	$query="insert into faculty(name,eid,email,dob,password,designation)
values('$fname','$eid','$uname','$dob','$pwd','$desg')";

	$result=mysqli_query($con,$query) or die(mysqli_error($con));

	if($result==1)
	{
		echo "Account Created successfully";
		header('Location: index.php');
	}

	else
	{
		echo "Error: Account not created <br>";


	}

}
}
else
{
echo "pwd do not match, re-register";
}
}

//echo "<a href='index.html'>Back to Main Menu</a>";
//header('Location: index.php');

?>
```

Login2.php- for login of existing user

```
<?php
session_start();
$uname=$_POST['uname'];
```

```
//echo "<br>uname=$uname";
$pwd=$_POST['pwd'];

        if($uname=="")
        die("Error: Username not entered!");

        if($pwd=="")
        die("Error: Password not entered!");

        include("db.php");
  $con=mysqli_connect("localhost", "root", "","fes");

        $query = "select email,password from faculty where email='$uname' and
password='$pwd'"; //authentication for login
        $result=mysqli_query($con,$query) or die(mysqli_error($con));

$rows=mysqli_num_rows($result);


echo "rows=$rows";
        while(list($a,$b)=mysqli_fetch_row($result))
        {
        echo "<br> inside while uname=$a  $b";
        }
if($rows==1)
        {
        session_start();
        $_SESSION['auth'] = 1;
        $sql = "SELECT eid,name from faculty where email = '"
.mysqli_real_escape_string($con, $_POST['uname']) . "'";

        $result = mysqli_query($con,$sql) or trigger_error("sorry there...?");

        $row = mysqli_fetch_array($result, MYSQLI_BOTH);
        $_SESSION['eid']=$row[0];
        $_SESSION['name']=$row[1];
        $localhost="form2.php";
echo "<form method=post action='$localhost'>";
        setcookie("username", $_POST['uname'], time()+(84600*30));
        echo "<img src='mca.jpg' height=300 width=1000></img>";
        //$uname=strtoupper($uname);
        echo "<font color=blue><br><br><center><H1>Congratulations: $uname: Access
granted<BR> </font>";

        echo "<br><center><font color=red><input type='submit' value='Click here
'></font></form>";
        }

        elseif($rows==0)
        {
```

```
        echo "Incorrect username or password";
//      $fd=fopen("host.txt","r");
//fscanf($fd,"%s",$localhost);
//fclose($fd);

        $localhost="index.html";
        echo "<br><a href ='$localhost'>Main Page</a>";
?>
<?php
        }
?>
```

Login.html – login page for existing user

```
<html>
<head>
<script type="text/javascript">
function validate()
{
var usn=document.getElementById("eid").value;
//document.writeln(usn);
submitOK="true";
var
reg=/^\d((AR|ar)|(BT|bt)|(CH|ch)|(CV|cv)|(CS|cs)|(EE|ee)|(EC|ec)|(IM|im)|(IS|is)|(IT|it)|(ME|
me)|(TE|te))\d{3}$/;
if (!usn.match(reg))
{
alert("The usn must be in this format IS001");
submitOK="false";
}

if (submitOK=="false")
{
return false;
}
}
</script>
<title>
Faculty Profile
</title>
</head>
<body>


<center><h1><font color=blue>Registration Form</font></h1></center>

<form method="post"  action="login1.php" onsubmit="return validate()">
<center><table border="10" bordercolor="#000099" bgcolor="white">
<tr><td colspan=2><font color=red>Enter your details for creating account</td></tr>
<tr><td><font color=blue><b>User full name*</b></font></td><td><input type=name
name="fname" size=30 maxlength=50 required></td></tr>
```

```
<tr><td><font color=blue><b>Login name( Provide email id)*</b></font></td><td><input
type=email name="uname" size=64 maxlength=64 required></td></tr>
<tr><td><font color=blue><b>Password*</b></font></td><td><input type=password
name="pwd" size=50 maxlength=50 required></td></tr>
<tr><td><font color=blue><b>Confirm Password*</b></font></td><td><input
type=password name="pwd1" size=50 maxlength=50 required></td></tr>
<tr><td><font color=blue><b>Employee ID*</b></font></td><td><input type=name
name="eid" size=6 maxlength=5 required></td></tr>
<tr><td><font color=blue><b>Date of Birth*</b></font></td><td><input type=date
name="dob" size=10 maxlength=8 required></td></tr>
<tr><td><font color=blue><b>Designation*</b></font></td><td><input type=name
name="desg" size=25 maxlength=15 required></td></tr>
<tr><td colspan=2><font color=red>Fields with * are Mandatory</td></tr>
</table>
<br><input type="submit" value="Register"
</center>
</form>
</body>
</html>
```

Db.php – file tp establish connection too database

```
<?php

$localhost="localhost";

$con=mysqli_connect("localhost","root", "","fes");

//echo "hai";

if(!$con)
{
        echo("<BR>Connection failed");
        exit();
}
//echo ("<BR>connected to the database");


$db=mysqli_select_db($con,"fes");

/*if(!db)
{

        echo("<BR>Database not selected");
        exit();

}*/

//echo ("<BR>Database SELECTED");
```

```
?>
```

Form2.php–file to set layout of data entry page

```
<?php
session_start();
$a=$_SESSION['auth'];
if($a!=1)
die("Error unauthorized acces");
else
{

echo "<frameset rows='30%,*' >
        <frame src='form3.php' name=target1  frameborder='yes' bordercolor=red
scrolling='no'>
        <frameset cols='20%,*'>
        <frame src='form33.php' name=target2  bordercolor=red scrolling='yes'>
        <frame src='ins.php' name=target3   bordercolor=red scrolling='yes'>
        </frameset></frameset>";
}
?>
```

Form3.php

```
<?php
session_start();
$a=$_SESSION['auth'];
if($a!=1)
die("Error unauthorized acces");
else
{


include("db.php");

$user=$_COOKIE["username"];

echo "<center><table border=0 bgcolor=white width=100%>";

echo "<tr><td align=center><img src='rvce_logo.jpg' width=120 height=120></td><td
colspan=8 align=center wrap><h3><font color=blue> Rashreeya Shikshana Samithi
Trust</h3><H1>R.V.College of Engineering</h1><h2>(Autonomous Institute Affiliated to
VTU, Belgaum)</h2></font></td></tr>";


echo "</tr></table></center>";
```

```
}
?>

<html>
<body bgcolor=red>
</body>
</html>
```

Form33.php

```
<html>
<head>

</head>

<body>
</body>
</html>


<?php

session_start();
$a=$_SESSION['auth'];
if($a!=1)
die("Error unauthorized acces");
else
{

include("db.php");

$user=$_COOKIE["username"];
//echo "cookie in form 33 ======$user";

echo "<table border=1 bgcolor=pink>";

echo "
<tr><td align=center><a href = profile.php target=target3>Profile</a></td></tr>";

echo "<tr><td align=center><a href=award.html target=target3>
Awards</a></td></tr>";

echo "<tr><td align=center><a href=book.html target=target3>
Books Published</a></td></tr>";

echo "<tr><td align=center><a href=conference.html target=target3>
Conferences</a></td></tr>";

echo "<tr><td align=center><a href=consultancy.html target=target3>
Consultancy</a></td></tr>";
```

```
echo "<tr><td align=center><a href=courses.html target=target3>
Subjects Taught</a></td></tr>";

echo "<tr><td align=center><a href=invited_talk.html target=target3>
Invited Talks</a></td></tr>";


echo "<tr><td align=center><a href=journal.html target=target3>
Papers Published in Journals</a></td></tr>";

echo "<tr><td align=center><a href=patent.html target=target3>
Patents</a></td></tr>";

echo "<tr><td align=center><a href=seminar.html target=target3>
Seminar</a></td></tr></table>";


$localhost="close.php";



}
?>
```

Award.html

```
<html>
<head>

<title>
Faculty Awards Details
</title>
</head>
<body>
<center>
<center><h1><font color=blue>Award Details</font></h1></center>
<form method="post"  action="award.php">
<center><table border="10" bordercolor="#000099" bgcolor="white">
<tr><td colspan=2><font color=red>Enter the details of awards you have recieved</td></tr>

<tr><td><font color=blue><b>Name of the Award*</b></font></td><td><input type=name
name="aname" size=50 maxlength=50 required></td></tr>
<tr><td><font color=blue><b>Name of Agency*</b></font></td><td><input type=name
name="agency" size=80 maxlength=80></td></tr>
<tr><td><font color=blue><b>Month and year of receiving the
award*</b></font></td><td><input type=name name="year" size=40
maxlength=40></td></tr>
<tr><td><font color=blue><b>url</b></font></td><td><input type=name name="url"
size=100 maxlength=100></td></tr>
<tr><td colspan=2><font color=red>Fields with * are Mandatory</td></tr>
```

```
</table>

<input type="submit" value="Submit">
</center>
</form>
</body>
</html>
```

Award.php

```
<?php
session_start();
include("db.php");
$con=mysqli_connect("localhost", "root", "","fes");
$aname=$_POST["aname"];
//$eid=$_POST["eid"];
$url=$_POST["url"];
$year=$_POST["year"];
$agency=$_POST["agency"];


echo "aname=$aname agency=$agency year=$year url=$url";



if ($aname==" || $agency==" || $year==")
{
echo "<br>Insufficient Data";
echo "<br><a href=award.html>Back to Profile for more data</a>";
}

else
{//$id=1;
//$query="select eid from faculty  into award(award_name,award_eid,url,date,agency_name)
values('$aname','$eid','$url','$year','$agency')";
$xyz= $_SESSION['eid'];
$query="insert into award(award_name,award_eid,url,date,agency_name)
values('$aname','$xyz','$url','$year','$agency')";
$result=mysqli_query($con,$query) or die(mysqli_error($con));

if ($result==1)
{
echo "<br>$aname Award data successfully entered";
echo "<br><a href=award.html>Back to Profile for more data</a>";
}
else
{
echo "<br>Error: Data not inserted";
echo "<br><a href=award.html>Back to Profile for more data</a>";
}
}
```

```
?>
```

Book.html

```
<html>
<head>

<title>
Book/Chapter Published Details
</title>
</head>
<body>
<center>
<center><h1><font color=blue>Books or Chapter Details</font></h1></center>

<form method="post"  action="book.php">
<center><table border="10" bordercolor="#000099" bgcolor="white">
<tr><td colspan=2><font color=red>Enter the details of Books or Chapters
published</td></tr>

<tr>
<td><font color=blue><b>Role*</td>
<td><select name="role" size=4>
<option>Editor</option>Editor
<option>Author</option>Author
<option>Reviewer</option>Reviewer
<option>Others</option>others
</select>
</td>

<tr>
<td><font color=blue><b>Book or Chapter*</td>
<td><select name="bc" size=2>
<option>Book</option>Book
<option>Chapter</option>Chapter
</select>
</td>

<tr><td><font color=blue><b>Name the
Chapters(Authored/Reviewed/Edited)</b></font></td><td><input type=name
name="chapter" size=20 maxlength=18></td></tr>

<tr><td><font color=blue><b>Title of the Book*</b></font></td><td><input type=name
name="title" size=100 maxlength=100></td></tr>
<tr><td><font color=blue><b>Edition</b></font></td><td><input type=name
name="edition" size=2 maxlength=2></td></tr>
<tr><td><font color=blue><b>Other Authors involved</b></font></td><td><input
type=name name="author2" size=25 maxlength=25></td></tr>
<tr><td><font color=blue><b>Name of Publisher*</b></font></td><td><input type=name
name="pub_name" size=50 maxlength=50></td></tr>
```

```
<tr><td><font color=blue><b>ISBN*</b></font></td><td><input type=name name="isbn"
size=20 maxlength=20 required></td></tr>
<tr><td><font color=blue><b>Month and year of Publishing*</b></font></td><td><input
type=name name="year" size=12 maxlength=12></td></tr>
<tr><td colspan=2><font color=red>Fields with * are Mandatory</td></tr>

</table>

<input type="submit" value="Submit">




</center>

</form>
</body>
</html>
```

Book.php

```
<?php

session_start();
include("db.php");
$con=mysqli_connect("localhost", "root", "","fes");

$role=$_POST["role"];
$bc=$_POST["bc"];
$chapter=$_POST["chapter"];
$title=$_POST["title"];
$edition=$_POST["edition"];
$author2=$_POST["author2"];
$pub_name=$_POST["pub_name"];
$isbn=$_POST["isbn"];
$year=$_POST["year"];


//echo "role=$role bc=$bc chapter=$chapter title=$title edition=$edition  author1=$author1
author2=$author2 pub_name=$pub_name isbn=$isbn year=$year others=$others";


if ($role=='' || $bc=='' || $title=='' || $pub_name=='')
{
echo " Insufficient Data";
echo "<br><a href=localhost/book.html>Back to Profile for more data</a>";


}
else
```

```
{
//$id=1;
$xyz= $_SESSION['eid'];
$query="insert into
book(ISBN,role,book_chapter,chapter_names,title,edition,other_authors,publisher_name,date
) values('$isbn','$role','$bc','$chapter','$title','$edition','$author2','$pub_name','$year')";
$query1="insert into has_published values('$xyz','$isbn')";
$result=mysqli_query($con,$query) or die(mysqli_error($con));
$result1=mysqli_query($con,$query1) or die(mysqli_error($con));
if ($result==1&& $result1==1)
{
echo "Book or Chapter data successfully entered";
echo "<br><a href=book.html>Back to Profile for more data</a>";
}
else
{
echo "Error: Data not inserted";
echo "<br><a href=book.html>Back to Profile for more data</a>";
}

}

?>
```

Conference.html

```
<html>
<head>

<title>
Conference Details
</title>
</head>
<body>
<center>
<center><h1><font color=blue>Conference Paper Details</font></h1></center>

<form method="post"  action="conference.php">
<center><table border="10" bordercolor="#000099" bgcolor="white">
<tr><td colspan=2><font color=red>Enter the details of papers you have presented at the
Conference</td></tr>

<tr>
<td><font color=blue><b>Type of the Confernce*</td>

<td><select name="ctype" size=2>
<option>National</option>N
<option>International</option>I
</select>
</td>
```

```
<tr><td><font color=blue><b>Research area*</b></font></td><td><input type=name
name="rarea" size=20 maxlength=20></td></tr>
<tr><td><font color=blue><b>Title of the Paper</b></font></td><td><input type=name
name="prj_title" size=100 maxlength=100></td></tr>
<tr><td><font color=blue><b>Name of the Conference*</b></font></td><td><input
type=name name="cname" size=100 maxlength=100></td></tr>
<tr><td><font color=blue><b>Conference date from*</b></font></td><td><input
type=name name="fdate" size=12 maxlength=12></td></tr>
<tr><td><font color=blue><b>Conference date to*</b></font></td><td><input type=name
name="tdate" size=12 maxlength=12></td></tr>
<tr><td><font color=blue><b>Conference Venue*</b></font></td><td><input type=name
name="venue" size=25 maxlength=25></td></tr>
<tr><td><font color=blue><b>Author 1(Your Name)*</b></font></td><td><input
type=name name="author1" size=25 maxlength=25></td></tr>
<tr><td><font color=blue><b>Other Author</b></font></td><td><input type=name
name="author2" size=25 maxlength=25></td></tr>
<tr><td><font color=blue><b>Pages*</b></font></td><td><input type=name
name="pages" size=10 maxlength=10></td></tr>
<tr><td><font color=blue><b>Abstract*</b></font></td><td><input type=name
name="abstract" size=100 maxlength=100></td></tr>
<tr><td><font color=blue><b>URL</b></font></td><td><input type=name name="url"
size=50 maxlength=50></td></tr>



<tr><td colspan=2><font color=red>Fields with * are Mandatory</td></tr>

</table>

<input type="submit" value="Submit">




</center>

</form>
</body>
</html>
```

Conference.php

```
<?php

session_start();
include("db.php");
$con=mysqli_connect("localhost", "root", ""."fes");

$ctype=$_POST["ctype"];
```

```
$rarea=$_POST["rarea"];
$prj_title=$_POST["prj_title"];
$cname=$_POST["cname"];
$fdate=$_POST["fdate"];
$tdate=$_POST["tdate"];
$venue=$_POST["venue"];
$author1=$_POST["author1"];
$author2=$_POST["author2"];
$pages=$_POST["pages"];
$abstract=$_POST["abstract"];
$url=$_POST["url"];

//echo "ctype=$ctype  rarea=$rarea   ppj=$ppj prj_name=$prj_name prj_title=$prj_title
cname=$cname org=$org fdate=$fdate tdate=$tdate venue=$venue author1=$author1";
//echo "<br> author2=$author2 author3=$author3 pages=$pages abstract=$abstract
keywords=$keyword url=$url others=$others upaper=$fname";


if ($ctype==" || $rarea="  || $cname==" || $fdate==" || $tdate==" || $venue==" || $author1==" ||
$pages==" || $abstract="  )
{
echo " Insufficient Data";
echo "<br><a href=conference.html>Back to Profile for more data</a>";
}
else
{
//$id=1;
$xyz= $_SESSION['eid'];
$query="insert into conference
values('$cname','$fdate','$tdate','$venue','$ctype','$pages','$abstract','$rarea','$prj_title'
,'$author1','$author2','$url')";
$result=mysqli_query($con,$query) or die(mysqli_error($con));
$query1="insert into presented_at values('$cname','$xyz')";
$result1=mysqli_query($con,$query1) or die(mysqli_error($con));
if ($result==1 && $result1==1)
{
echo "Conference data successfully entered";
echo "<br><a href=conference.html>Back to Profile for more data</a>";
}
else
{
echo "Error: Data not inserted";
echo "<br><a href=conference.html>Back to Profile for more data</a>";
}

}

?>
```

Consultancy.html

```
<html>
<head>

<title>
Consultancy Details
</title>
</head>
<body>
<center>
<center><h1><font color=blue>Consultancy Details</font></h1></center>

<form method="post"  action="consultancy.php">
<center><table border="10" bordercolor="#000099" bgcolor="white">
<tr><td colspan=2><font color=red>Enter the details of Consultancy undertaken</td></tr>


<tr><td><font color=blue><b>Name of the Client*</b></font></td><td><input type=name
name="client" size=80 maxlength=80></td></tr>
<tr><td><font color=blue><b>Title of the work*</b></font></td><td><input type=name
name="title" size=80 maxlength=80></td></tr>

<tr><td><font color=blue><b>Duration from (start date)*</b></font></td><td><input
type=date name="sdate" size=12 maxlength=12></td></tr>
<tr><td><font color=blue><b>Duration to (completion date)</b></font></td><td><input
type=date name="cdate" size=12 maxlength=12></td></tr>
<tr><td><font color=blue><b>Faculty 1 - Faculty involved (Your
name)*</b></font></td><td><input type=name name="f1" size=50
maxlength=50></td></tr>
<tr><td><font color=blue><b>Faculty 2 (Other Faculties
involved)</b></font></td><td><input type=name name="f2" size=50
maxlength=50></td></tr>
<tr><td><font color=blue><b>Revenue Generated*</b></font></td><td><input type=name
name="revenue" size=15 maxlength=15></td></tr>
<tr><td><font color=blue><b>Brief Summary of the work
undertaken</b></font></td><td><input type=name name="summary" size=100
maxlength=100></td></tr>
<tr><td><font color=blue><b>Facilities/Labs used for
consultancy</b></font></td><td><input type=name name="lab" size=100
maxlength=100></td></tr>
<tr><td colspan=2><font color=red>Fields with * are Mandatory</td></tr>

</table>

<input type="submit" value="Submit">




</center>
```

```
</form>
</body>
</html>
```

Consultancy.php

```
<?php

session_start();
include("db.php");
$con=mysqli_connect("localhost", "root", ""."fes");

$client=$_POST["client"];
$title=$_POST["title"];
$sdate=$_POST["sdate"];
$cdate=$_POST["cdate"];
$f1=$_POST["f1"];
$f2=$_POST["f2"];
$revenue=$_POST["revenue"];
$summary=$_POST["summary"];
$lab=$_POST["lab"];


//echo "client=$client title=$title sdate=$sdate  cdate=$cdate  f1=$f1 f2=$f2 f3=$f3
revenue=$revenue summary=$summary  lab=$lab  url=$url others=$others";


if ($client==" || $title==" || $sdate==" || $f1=="  )
{
echo " Insufficient Data";
echo "<br><a href=consultancy.html>Back to Profile for more data</a>";
}
else
{
//$id=1;
$result=mysqli_query($con,$query) or die(mysqli_error($con));
$query="insert into consultancy
values('$client','$title','$sdate','$cdate','$f1','$f2','$revenue','$summary','$lab')";
$result=mysqli_query($con,$query) or die(mysqli_error($con));
$query1="insert into works_with values('$xyz','$title')";
$result1=mysqli_query($con,$query1) or die(mysqli_error($con));
if ($result==1&&$result1==1)
{
echo "Consultancy data successfully entered";
echo "<br><a href=consultancy.html>Back to Profile for more data</a>";
}
else
{
```

```
echo "Error: Data not inserted";
echo "<br><a href=consultancy.html>Back to Profile for more data</a>";
}

}

?>
```

Courses.html

```
<html>
<head>

<title>
Courses Taught Details
</title>
</head>
<body>
<center>
<center><h1><font color=blue>Courses Taught Details</font></h1></center>

<form method="post"  action="courses.php">
<center><table border="10" bordercolor="#000099" bgcolor="white">
<tr><td colspan=2><font color=red>Enter the details of Courses taught</td></tr>


<tr><td><font color=blue><b>Title of the Course/Subject
taught*</b></font></td><td><input type=name name="title" size=50
maxlength=50></td></tr>

<tr>
<td><font color=blue><b>Above selected course/subject taught for under graduate students
or post graduate students*</b>
<td><select name="ug_pg" size=3>
<option>Under Graduate</option>UG
<option>Post Graduate</option>PG
<option>Others</option>others
</select>
</td></tr>

<tr><td><font color=blue><b>Semester</b></font></td><td><input type=name
name="sem" size=2 maxlength=2></td></tr>
<tr><td><font color=blue><b>During the year</b></font></td><td><input type=name
name="year" size=12 maxlength=12></td></tr>
<tr><td><font color=blue><b>Number of students in the class</b></font></td><td><input
type=name name="num" size=3 maxlength=3></td></tr>
<tr><td><font color=blue><b>Pass Percentage</b></font></td><td><input type=name
name="pass" size=5 maxlength=5></td></tr>
<tr><td colspan=2><font color=red>Fields with * are Mandatory</td></tr>

</table>
```

```
<input type="submit" value="Submit">

</center>

</form>

</body>
</html>
```

Courses.php

```
<?php

session_start();
include("db.php");
$con=mysqli_connect("localhost", "root", "","fes");

$title=$_POST["title"];
$ug_pg=$_POST["ug_pg"];
$sem=$_POST["sem"];
$year=$_POST["year"];
$num=$_POST["num"];
$pass=$_POST["pass"];

echo "title=$title   ug_pg=$ug_pg  sem=$sem   year=$year   num=$num pass=$pass";

if ($title==" || $ug_pg==")
{
echo " Insufficient Data";
echo "<br><a href=courses.html>Back to Profile for more data</a>";
}

else
{//$id=1;
$xyz= $_SESSION['eid'];
$query="insert into courses values('$title','$ug_pg','$sem','$year','$num','$pass','$xyz')";
$result=mysqli_query($con,$query) or die(mysqli_error($con));

if ($result==1)
{
echo "Course Taught data successfully entered";
echo "<br><a href=courses.html>Back to Profile for more data</a>";
}
else
{
echo "Error: Data not inserted";
echo "<br><a href=courses.html>Back to Profile for more data</a>";
}
```

```
}

?>
```

Invited_talk.html

```
<html>
<head>

<title>
Invited Talk Details
</title>
</head>
<body background = "college1.jpg">
<center>
<center><h1><font color=blue>Details of Invited Talks</font></h1></center>

<form method="post"  action="innvited_talk.php">
<center><table border="10" bordercolor="#000099" bgcolor="white">
<tr><td colspan=2><font color=red>Enter the details of Invited Talks you have
given</td></tr>


<tr><td><font color=blue><b>Name of the
Institution/Organization*</b></font></td><td><input type=name name="iname" size=50
maxlength=50></td></tr>
<tr><td><font color=blue><b>Topic of the invited talk*</b></font></td><td><input
type=name name="topic" size=80 maxlength=80></td></tr>
<tr><td><font color=blue><b>Date on which the Invited Talk was
delivered*</b></font></td><td><input type=name name="year" size=40
maxlength=40></td></tr>

<tr>
<td><font color=blue><b>Participation Level*</b>
<td><select name="participation" size=3>
<option>Under Graduate</option>UG
<option>Post Graduate</option>PG
<option>Others</option>others
</select>
</td></tr>

<tr><td><font color=blue><b>Research Area</b></font></td><td><input type=name
name="rarea" size=100 maxlength=100></td></tr>
<tr><td colspan=2><font color=red>Fields with * are Mandatory</td></tr>

</table>

<input type="submit" value="Submit">
```

```
</center>

</form>

</body>
</html>
```

Invited_talk.php

```
<?php

session_start();
include("db.php");
$con=mysqli_connect("localhost", "root", "","fes");

$iname=$_POST["iname"];
$topic=$_POST["topic"];
$year=$_POST["year"];
$participation=$_POST["participation"];
$rarea=$_POST["rarea"];

echo "iname=$iname topic=$topic year=$year  participation=$participation rarea=$rarea \n";



if ($iname=='' || $topic=='' || $year=='')
{
echo " Insufficient Data";
echo "<br><a href=invited_talk.html>Back to Profile for more data</a>";
}

else
{//$id=1;
$xyz= $_SESSION['eid'];
$query="insert into invited_talks values('$iname','$topic','$year','$participation','$rarea')";
$result=mysqli_query($con,$query) or die(mysqli_error($con));
$query1="insert into delivers values('$xyz','$topic')";
$result1=mysqli_query($con,$query1) or die(mysqli_error($con));

if ($result==1 && $result1==1)
{
echo "$iname Invited Talks data successfully entered\n";
echo "<br><a href=invited_talk.html>Back to Profile for more data\n</a>";
}
else
{
echo "Error: Data not inserted";
echo "<br><a href=invited_talk.html>Back to Profile for more data</a>";
}
}
```

```
?>
```

Validate.php

```
<?php
session_start();
$username = $_POST['user'];
$password = $_POST['pass'];
$_SESSION['loggedIn'] = false;
//Prevent SQL Injection
$username = stripcslashes($username);
$password = stripcslashes($password);
$username = mysql_real_escape_string($username);
$password = mysql_real_escape_string($password);

//connect to database
mysql_connect("localhost", "root", "");
mysql_select_db("customs");

//Query
$result = mysql_query("select * from login where username = '$username' and password =
'$password'")
                        or die("Failed to Query Database.".mysql_error());

$row = mysql_fetch_array($result);
if($row['username'] == $username && $row['password'] == $password)
{
        $_SESSION['loggedIn'] = true;
        $_SESSION['username'] = $username;
        $result = mysql_query("SELECT * FROM carrier WHERE carrier_id =
'$username'");
        $row = mysql_fetch_array($result);
        if(empty($row))
                $_SESSION['carrier'] = false;
        else
                $_SESSION['carrier'] = true;
        if($username == "admin")
        {
                header('Location: admin.php');
        }
        else
        {
                header('Location: home_after_login.php');
        }
}
else
{
        //echo "Invalid Credentials";
        echo '<script type="text/javascript">alert("Invalid credentials.");
window.history.back(); </script>';
        $_SESSION['loggedIn'] = false;
```

```
}
?>
```