

1. INTRODUCTION

In the prevailing system, most of the records are maintained on paper. It becomes very inconvenient to modify the data. There is a possibility that there is a dual entry. This inconsistent state does not supply the concrete information which poses a problem in the case information related to particular search record.

Our project is very useful. User is no longer required to check his register in search of records, as now it can be searched over the website by choosing some options. The user need not to type in most of the information. He/she is just required to enter the desired options. On the whole it liberates the user from keeping lengthy manual records. In a nutshell, it abates the work load of an organization.

In today's world, no one likes to perform calculations on calculator or manually when computer is there. Every one wants his/her work to be done by computer automatically and displaying the result for further manipulations. So this project is about providing convenience regarding fee management system.

2. OBJECTIVE

Main aim in developing **College Fees Management System** is to provide an easy way to automate all functionalities regarding to fees payment of a college with the finest of details about any aspect of college.

College Fees Management System is a web-based software that has the perspective of attaining attraction of those colleges which don't have one good performing application for keeping their information secure and make their fees management easier. College Fees Management System provides one attractive environment where you can manipulate data and information about fees of students. So the Core purpose of designing "College Fees Management System" is to manage the task related to payment the fees of college students and to reduce time to searching of appropriate candidates in college view.

3. PROJECT GOALS

This proposed system can be used to manage the data of all educational institutes about their fees payment of students. It will support both stand alone and networking environment. The system uses Java Server Page Technology. The main modules involved in this system are:

1. Login
2. Logout
3. Forms
4. Reports

3.1 Module wise description

3.1.1 Login

Login module is used to check whether the user is an authorized person to use the system or not. For this the user should give the correct user name and password. In this system only one type of user is authorized i.e. Admin.

3.1.2 Logout

Logout module is used to logout from the fees management system

3.1.3 Forms

This module consists of the following sub modules

1. Student Admission Form
2. Student Fee Collection Form
3. Student Due Fees Form
4. Student Details Form

1. The Student Admission form is designed for admission of new students. During admission Student id/Roll no generation is automate.

2. The Student Fee Collection Form is designed for collecting fees from the students of their respective semesters.

3. The Student Due Fees Form is designed for checking the status of semester fees payment of respective students.

4. The Student Details Form is designed for viewing the basic and college regarding details of students.

3.1.4 Reports

All the above mentioned data are stored in the back end and can be retrieved as reports with filtering options. The Following are the reports can be taken from this system

1. Fee Detail Report
2. Student Details Report
3. Generate Pay Slip

4. PROPOSED SYSTEM

Before developing software we kept the following things in mind that we can develop powerful and quality software.

4.1 DESCRIPTION

This dissertation “COLLEGE FEES MANAGEMENT SYSTEM” is a detailed summary of all the drawbacks of the timeworn system and how the proposed novel system overcomes these inadequacies. The new system takes into account the various insufficiencies prevailed in the longstanding system thereby paving the way for designing and developing a first-hand scheme. It takes into the account the Economical bandwidth available for the new system. The foremost thing that is taken care of is the need and requirements of the user.

4.2 PROBLEM STATEMENT

- Problem statement was to design a module:
- Which was not user friendly
 - Which could not restrict the other users from accessing admin user's data.
 - Which was not sufficient for the administrator to handle all the changes.
 - Which was not supportive to get the payment details of all students in a particular department.

4.3 SOLUTION STATEMENT

Solution statement was to design a module:

- Which is user friendly
- Which will restrict the other user from accessing admin user's data.
- Which will sufficient for the administrator to handle all the changes.
- Which will supportive to get the payment details of all students in a particular department.

4.4 FUNCTIONS TO BE PROVIDED:

The system will be user friendly and completely menu driven so that the users shall have no problem in using all options.

- The system will be efficient and fast in response.
- The system will be customized according to needs.

4.5 SYSTEM REQUIRMENTS

4.5.1 Hardware Requirements

Processor: Intel Dual Core or AMD Phonem XII and Later Versions

RAM: 512 MB

Hard disk: 1 GB

4.5.2 Software Requirements

Operating System : Microsoft Windows 7,8,10

Internet Browser: Google Chrome (For best view)

Application Server: XAMPP v3.2.2

Editor: Adobe Dreamweaver CS3

Runtime Environment: JRE 8

JAR Files : 1) itextpdf-5.3.2.jar

2) mysql-5.0.7.jar

5. REQUIREMENT ANALYSIS

This process is adopted when management of the system development, Personnel decide that the particular system needs improvement. The system development life cycle is the set of activities, carried out by the analyst, designers and users to develop and implement a system. The systems that are present in the nature follow common life cycle pattern. For example consider the raining system. Initially the rain falls into the river, river flows into sea, the sea water evaporates to form vapors, the vapors form clouds which again bring rain. Similarly consider a man made system initially a system is analyzed, designed and made operational by the efforts of system analysis.

After successful operation or a number of users, the system becomes less and less effective by change in the environment. So these changes have to be incorporated in to the system by minor modifications. So the general activities from the life cycle of the system are given below:

-) Preliminary study
-) Defining the system
-) Design and development of the system
-) Implementation of the system

6. SYSTEM DESIGN

Then we began with the design phase of the system. System design is a solution, a “HOW TO” approach to the creation of a new system. It translates system requirements into ways by which they can be made operational. It is a translational from a user oriented document to a document oriented programmers. For that, it provides the understanding and procedural details necessary for the implementation. Here we use Data Flow Diagram to supplement the working of the new system. The system thus made should be reliable, durable and above all should have least possible maintenance costs. It should overcome all the drawbacks of the prevailing system and most important of all meet the user requirements.

7. 3-TIER CLIENT/SERVER ARCHITECTURE

3-Tier client-server architectures have 3 essential components:

1. A Client PC
2. An Application Server
3. A Database Server

3-Tier Architecture Considerations:

- ❖ Client program contains presentation logic only
 -) Less resources needed for client workstation
 -) No client modification if database location changes
 -) Less code to distribute to client workstations
- ❖ One server handles many client requests
 -) More resources available for server program
 -) Reduces data traffic on the network

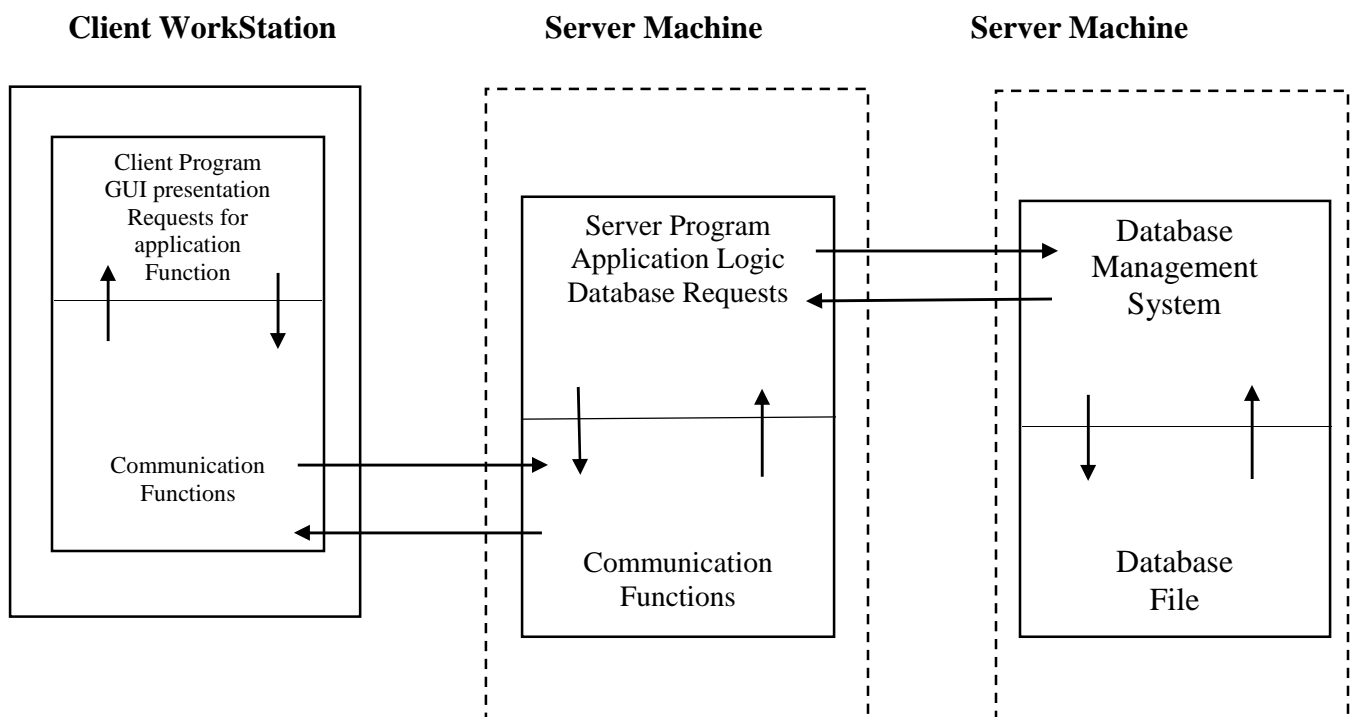


Fig. 7.1: 3-Tier Client/Server Architecture

8. DATA FLOW DIAGRAM (DFD)

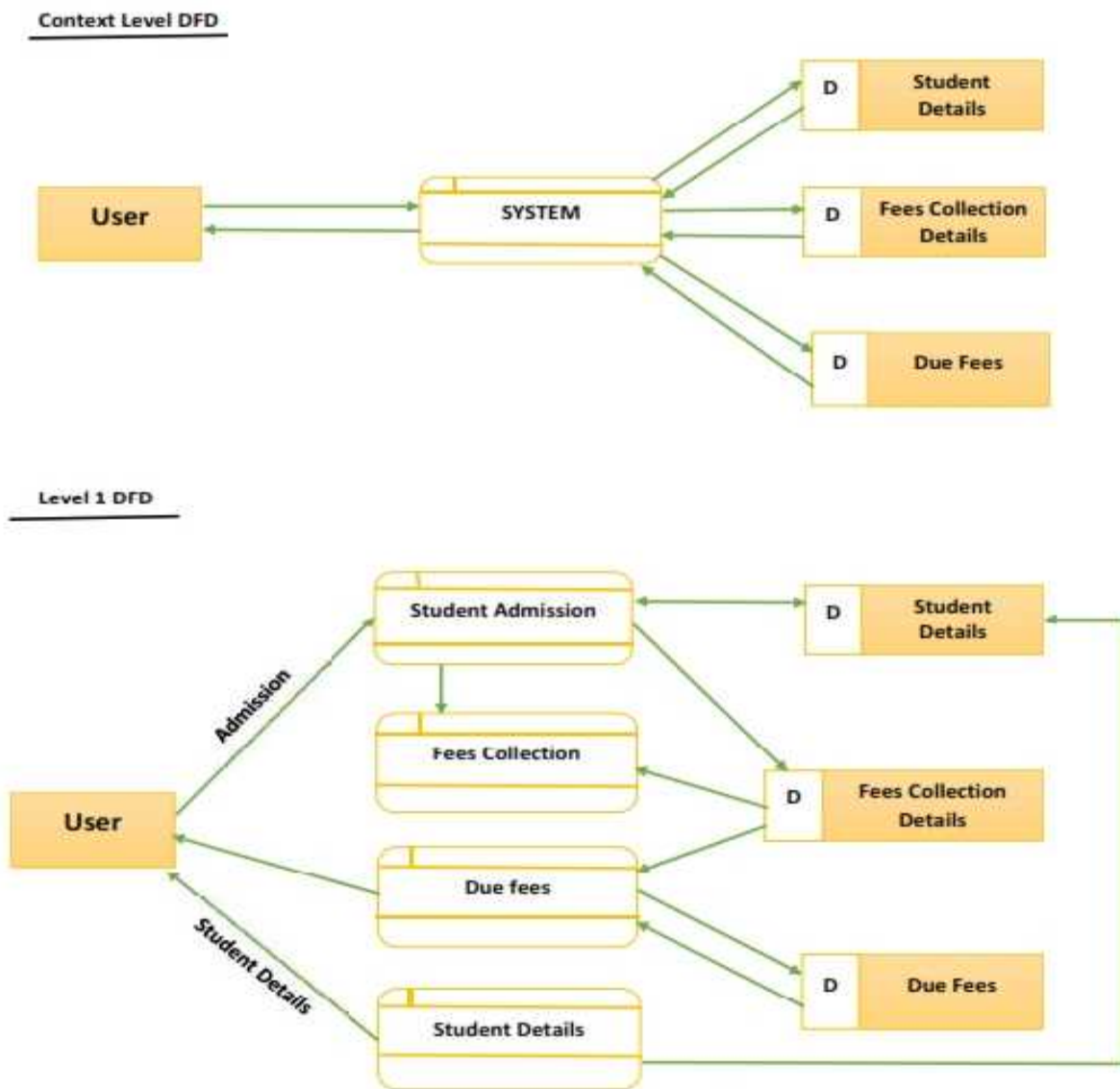


Fig. 8.1: Data Flow Diagram(DFD)

9. ENTITY-RELATIONSHIP DIAGRAM

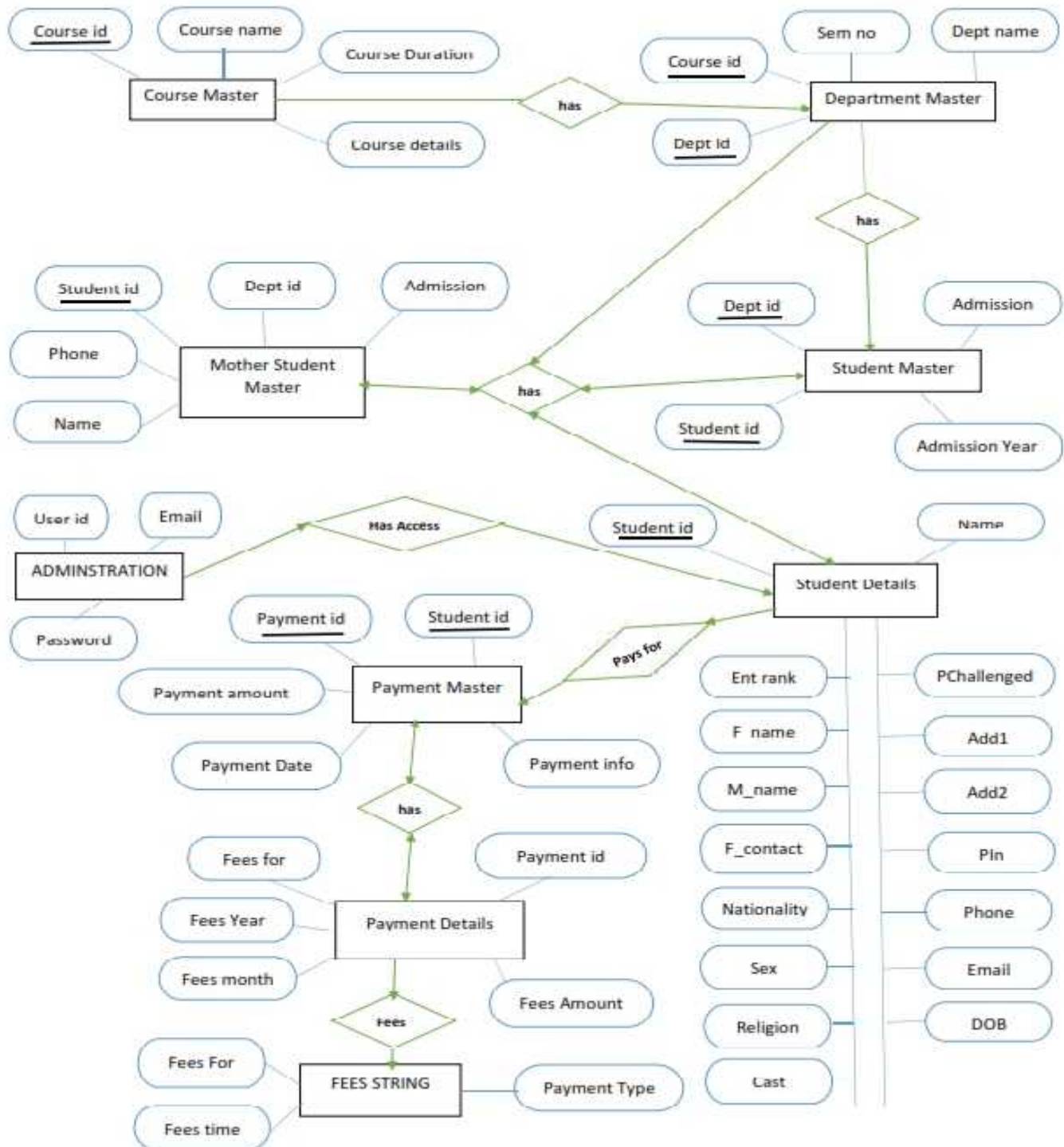


Fig. 9.1: Entity-Relationship Diagram

10. SCHEMA DIAGRAM

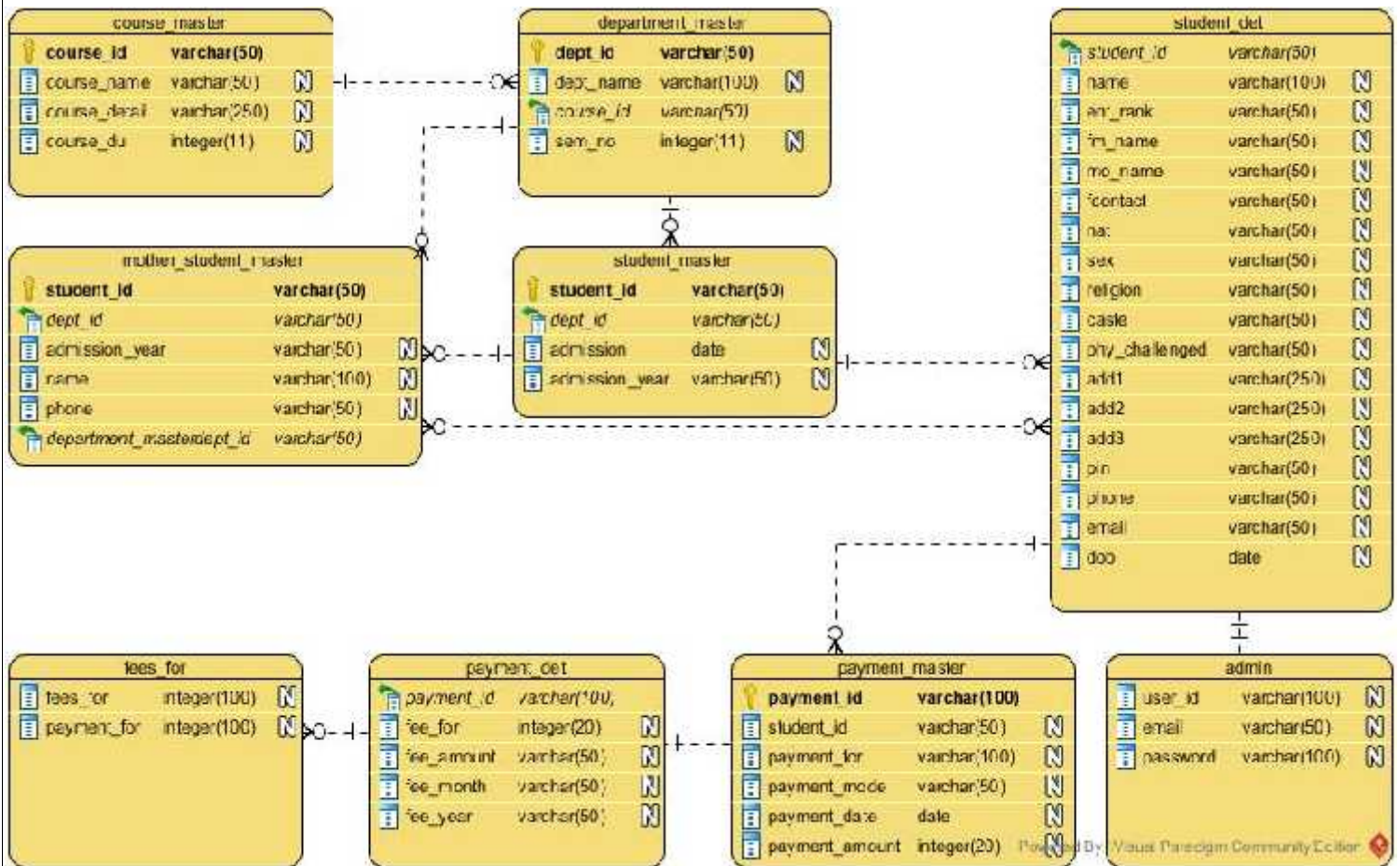


Fig. 10.1: Schema Diagram

11. WORKFLOW DIAGRAM

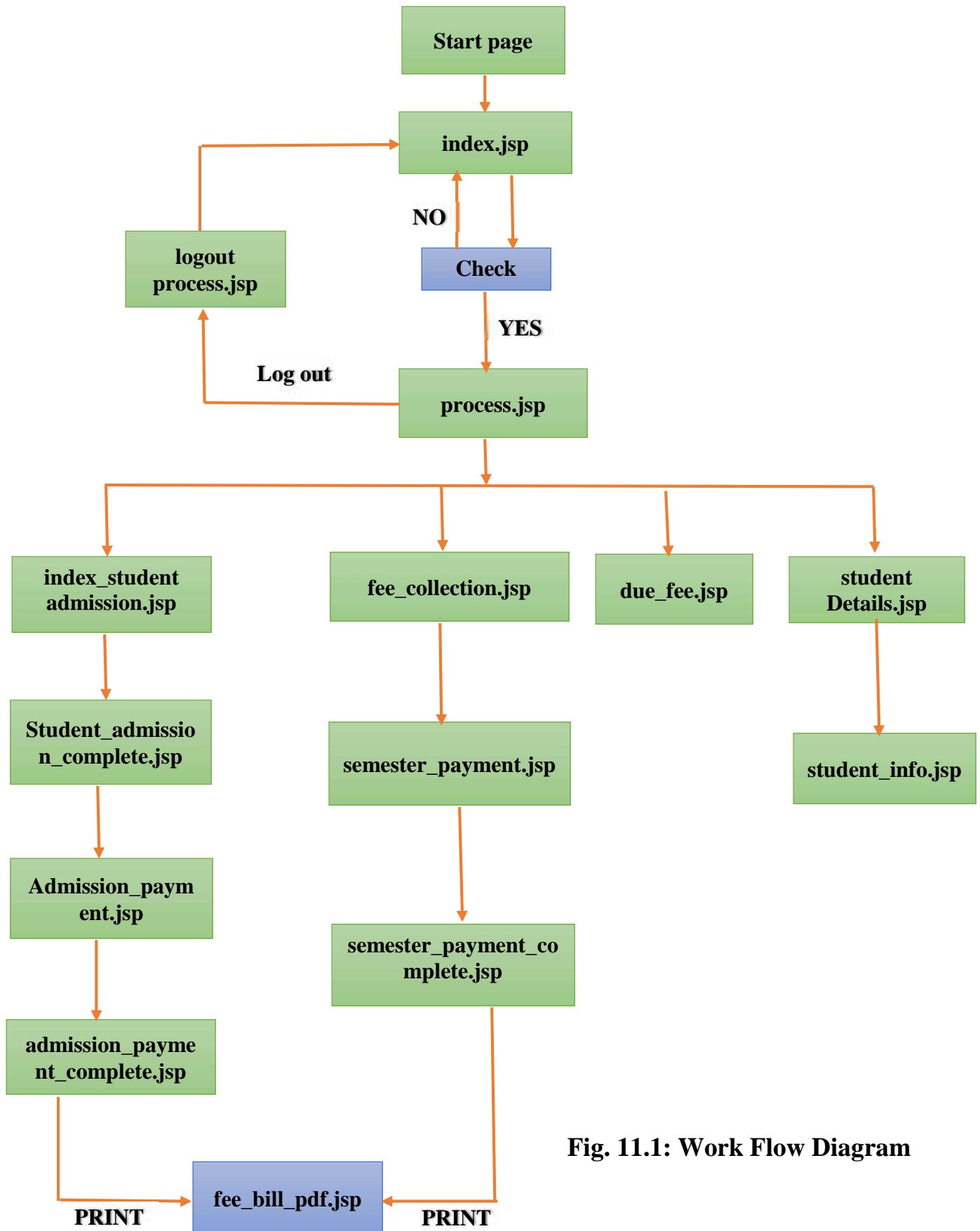
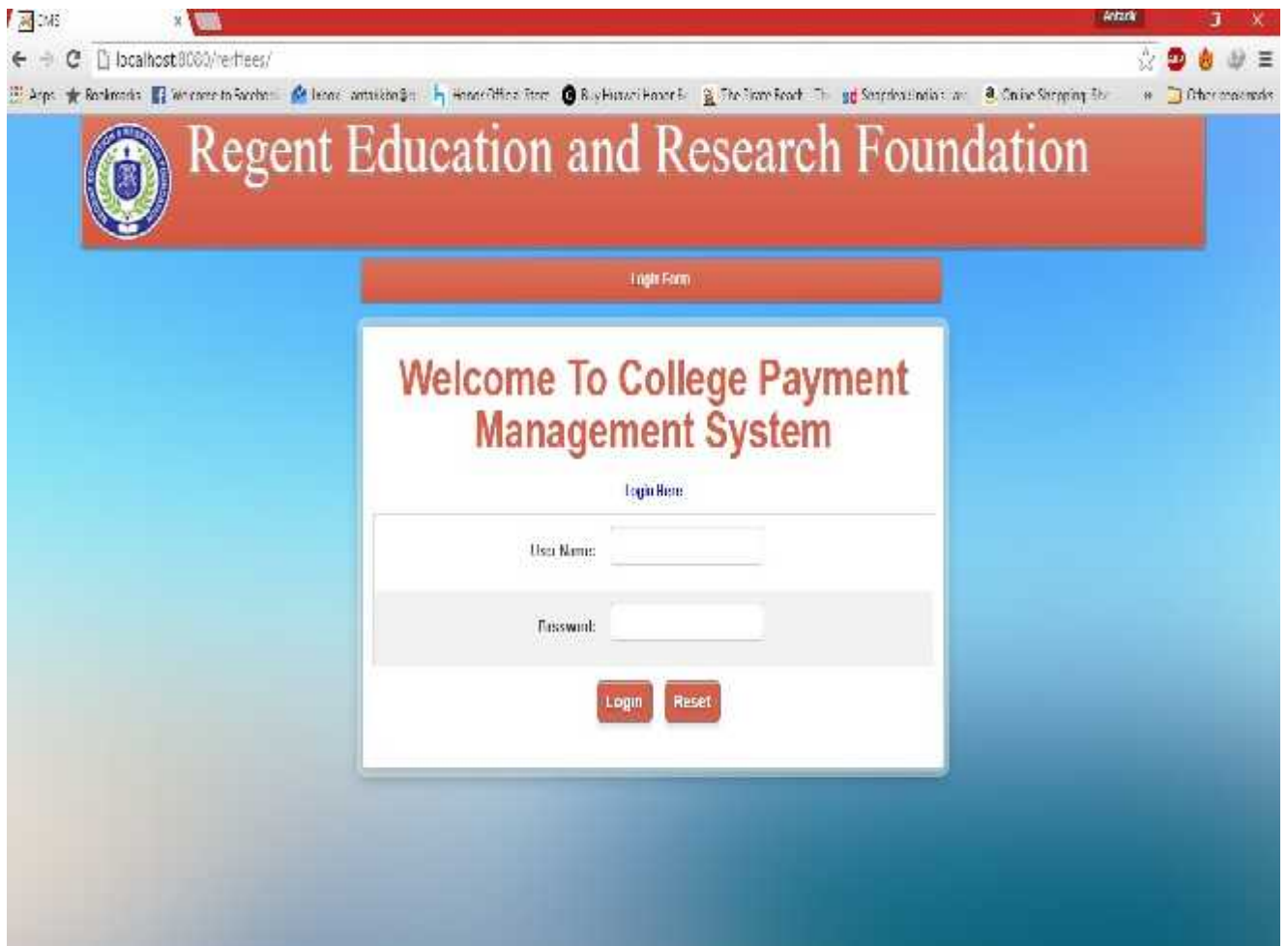


Fig. 11.1: Work Flow Diagram

12. SNAPSHOTS

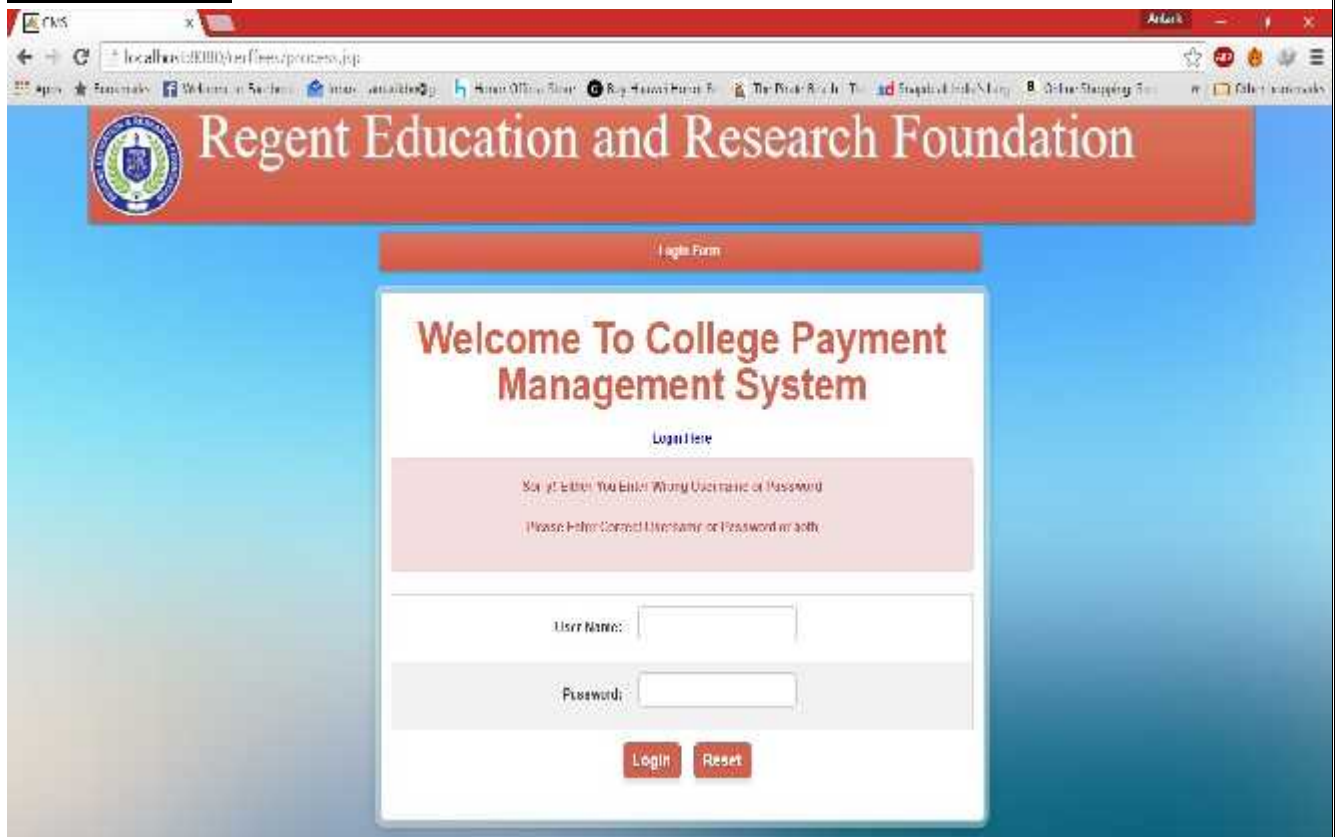
index.jsp



The screenshot shows a web browser window displaying the login page for the Regent Education and Research Foundation. The browser's address bar shows the URL `localhost:8080/verifies/`. The page features a red header with the foundation's logo on the left and the text "Regent Education and Research Foundation" in white. Below the header, there is a red button labeled "Login Form". The main content area has a blue gradient background. In the center, there is a white box with a red border containing the text "Welcome To College Payment Management System" in red. Below this text is a link "Login Here" in blue. The login form consists of two input fields: "User Name:" and "Password:". At the bottom of the form are two red buttons: "Login" and "Reset".

Fig. 12.1: Login Form

process.jsp



**Fig. 12.2: Login Failed
Due to wrong username or password or both**

process.jsp

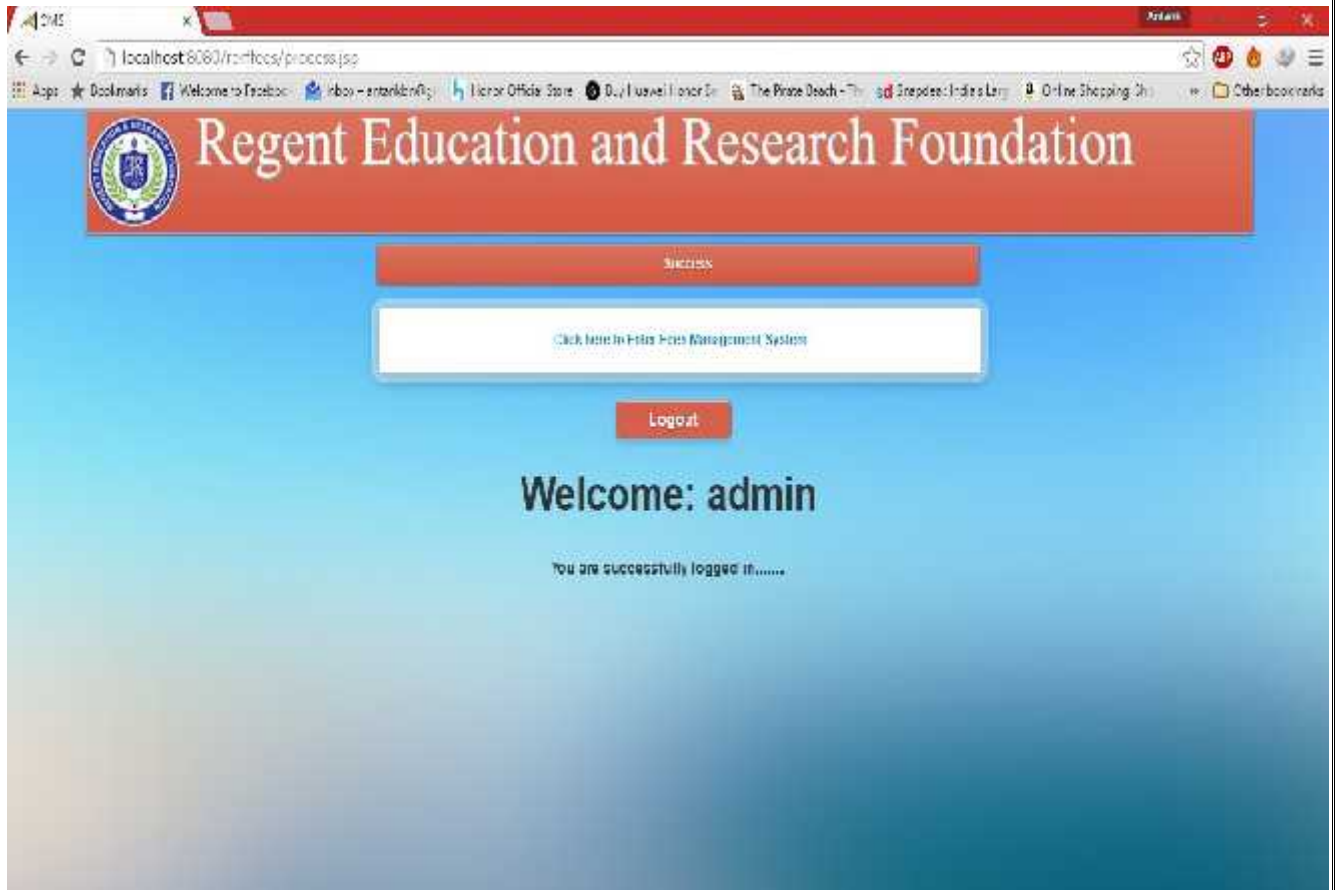
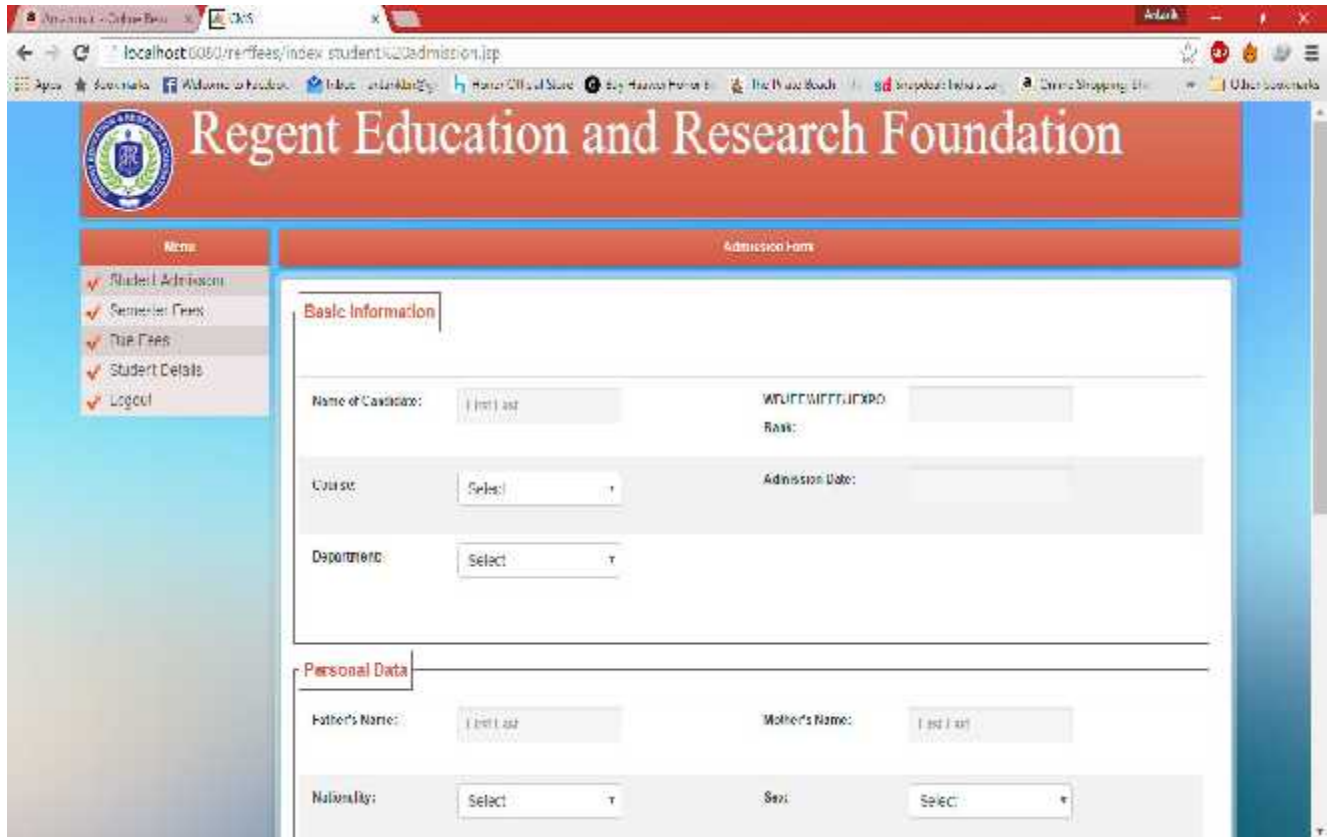


Fig. 12.3: Login Successfull

index_student admission.jsp



Regent Education and Research Foundation

Home

Admission Form

Basic Information

Name of Candidate: First Last Roll Number: WUFWUFWUJXPO

Course: Select Admission Date:

Department: Select

Personal Data

Father's Name: First Last Mother's Name: First Last

Nationality: Select Sex: Select

Fig. 12.4: Student Admission Form

student_admission_complete.jsp



Fig. 12.5: Student Admission Complete

admission_payment.jsp

The screenshot shows a web browser window displaying the 'admission_payment.jsp' page. The page header features the Regent Education and Research Foundation logo and name. A left sidebar contains a menu with links: Student Admission, Semester Fee, Fee Form, Student Details, and Logout. The main content area is titled 'Admission Details' and is divided into two sections: 'Basic Information' and 'Admission Payment'. The 'Basic Information' section contains the following details:

Field	Value
Name of Candidate:	Sayan Samanta
Student ID/Roll No:	CSE/2012/002
Department:	CSE
Course:	B TECH
Date Of Admission:	Sun Aug 26 22:51:17 IST

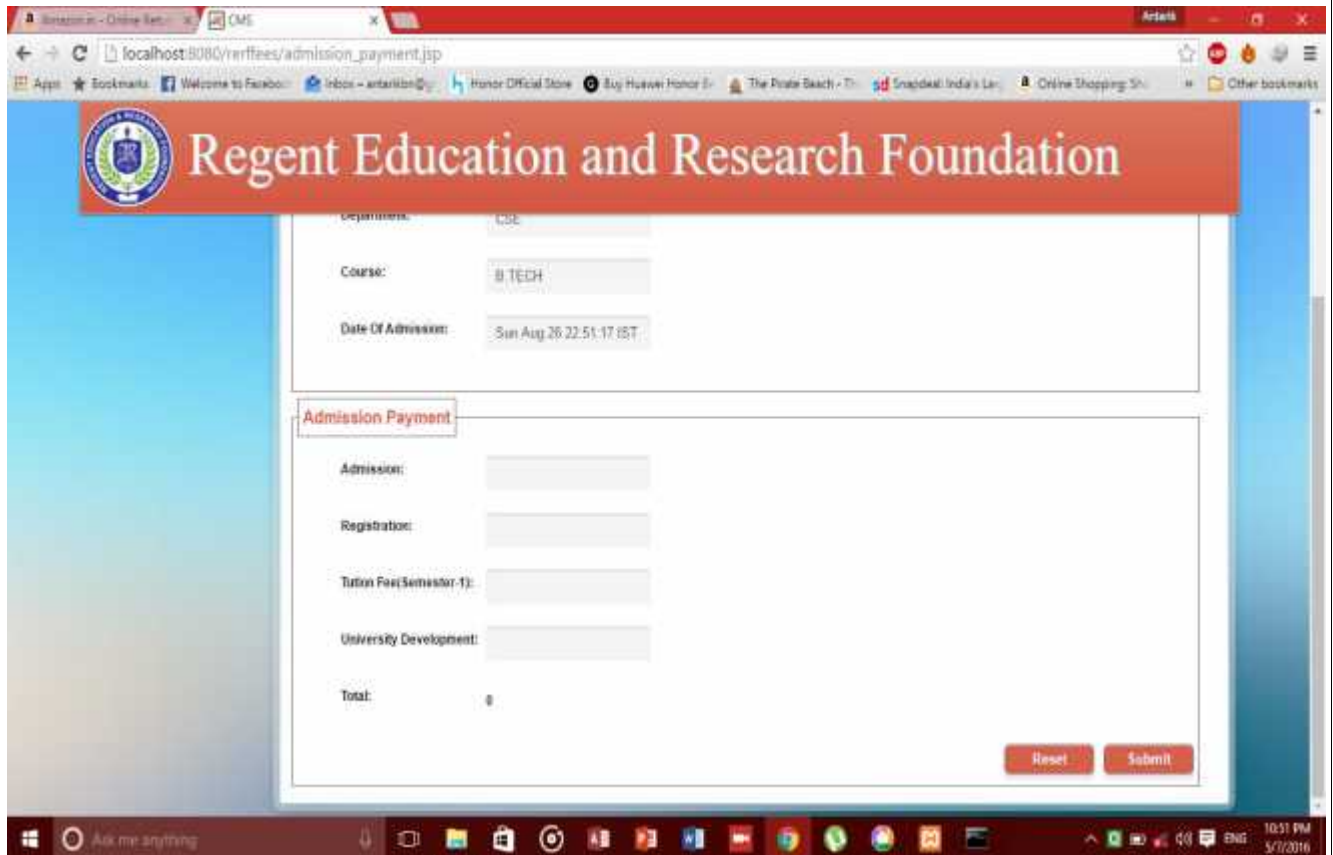
The 'Admission Payment' section contains two input fields:

Field	Value
Admission:	
Registration:	

The browser's address bar shows the URL 'localhost:8080/verffees/admission_payment.jsp'. The Windows taskbar at the bottom indicates the system time as 10:31 PM on 5/7/2016.

Fig. 12.6: Admission Payment(Part 1)

admission_payment.jsp



The screenshot shows a web browser window displaying the 'admission_payment.jsp' page. The browser's address bar shows the URL 'localhost:8080/verffees/admission_payment.jsp'. The page features a red header with the 'Regent Education and Research Foundation' logo and name. Below the header, there is a form with the following fields:

- Department:
- Course:
- Date Of Admission:

Below these fields is a section titled 'Admission Payment' with a red border. It contains the following fields:

- Admission:
- Registration:
- Tuition Fee (Semester 1):
- University Development:
- Total:

At the bottom right of the form, there are two buttons: 'Reset' and 'Submit'. The browser's taskbar at the bottom shows the Windows logo, a search bar, and various application icons. The system clock in the bottom right corner indicates the time is 10:51 PM on 5/7/2016.

Fig. 12.7: Admission Payment (Part 2)

admission_payment_complete.jsp

The screenshot shows a web browser window displaying the 'admission_payment_complete.jsp' page. The page features a red header with the Regent Education and Research Foundation logo and name. Below the header, there is a table listing the payment components. At the bottom, a green box indicates 'Successful Payment Successful!' and provides a link to 'Click Here for Invoice'.

Regent Education and Research Foundation	
Admission:	10000
Registration:	1000
Tuition Fee(Semester - I):	30000
University Development:	3000
Total Amount:	50000

Successful Payment Successful!

[Click Here for Invoice](#)

Fig. 12.8: Admission Payment Complete

fee_bill.pdf (For Admission Payment)

Regent Education and Research Foundation Money Receipt for Admission

College Copy/Student Copy

Bill No :A00000000	Student ID :CSE/2012/001
Student Name :ANTARIK KOLEY	Course :B.TECH
Department Name :CSE	Admission Date :Thu Aug 16 20:13:39 IST 2012

Fee Detail	Amount
Admission	10000
Registration	1000
Tuition Fee(Semester-I)	36000
University Development	3000
Total :	50000

Received By:

Signature(With Date):

Regent Education and Research Foundation Money Receipt for Admission

College Copy/Student Copy

Bill No :A00000000	Student ID :CSE/2012/001
Student Name :ANTARIK KOLEY	Course :B.TECH
Department Name :CSE	Admission Date :Thu Aug 16 20:13:39 IST 2012

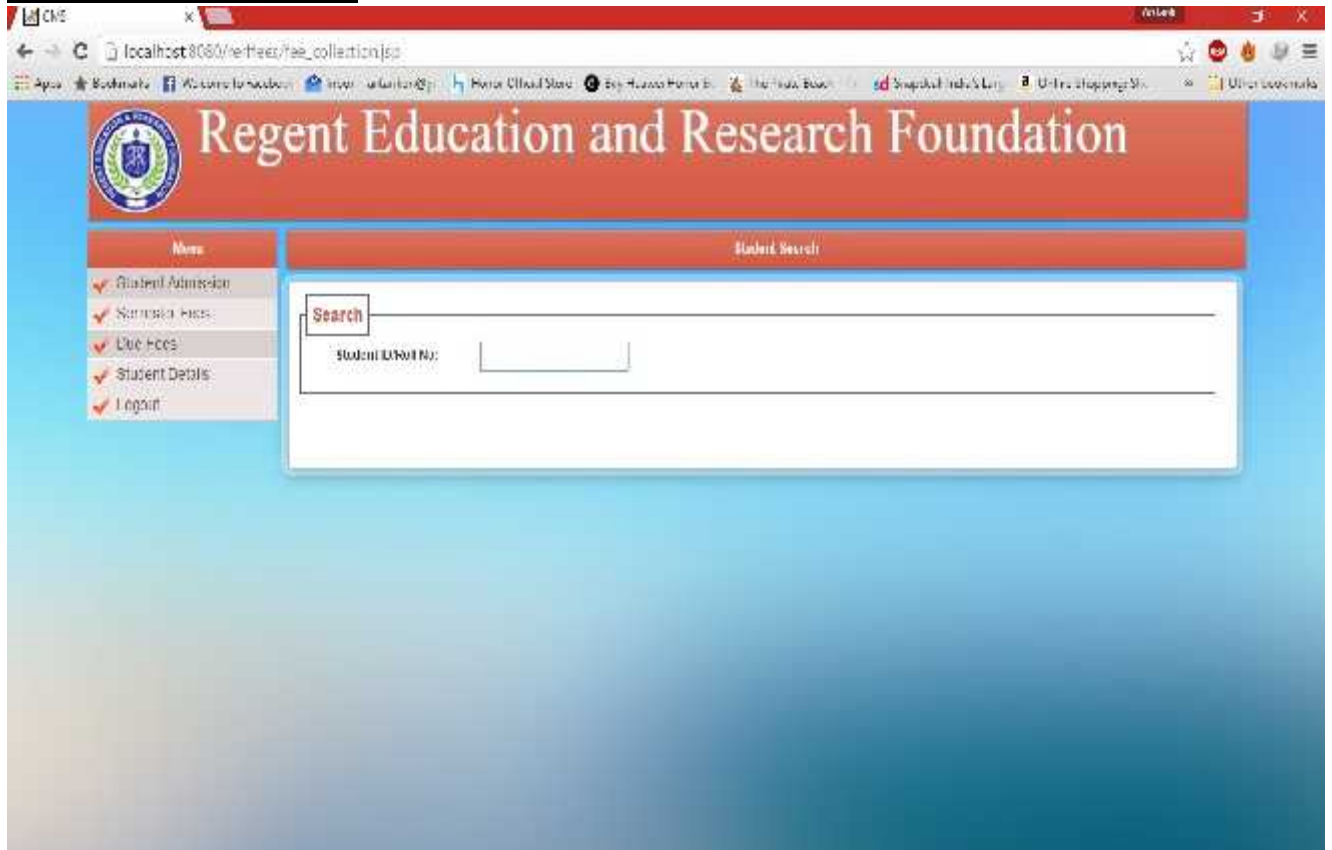
Fee Detail	Amount
Admission	10000
Registration	1000
Tuition Fee(Semester-I)	36000
University Development	3000
Total :	50000

Received By:

Signature(With Date):

Fig. 12.9: Invoice for Admission

fee_collection.jsp



The screenshot displays a web application interface for the Regent Education and Research Foundation. The page is titled "fee_collection.jsp" and is accessed via a browser at the URL "localhost:8080/fee/fee_collection.jsp". The interface includes a red header bar with the foundation's logo and name. Below the header, there is a sidebar menu on the left with the following options: Student Admission, Semester Fees, Due Fees, Student Details, and Logout. The main content area is titled "Student Search" and contains a search form with a "Search" button and a text input field labeled "Student ID/roll No:".

Fig. 12.10: Student Search form for fee collection

fee_collection.jsp

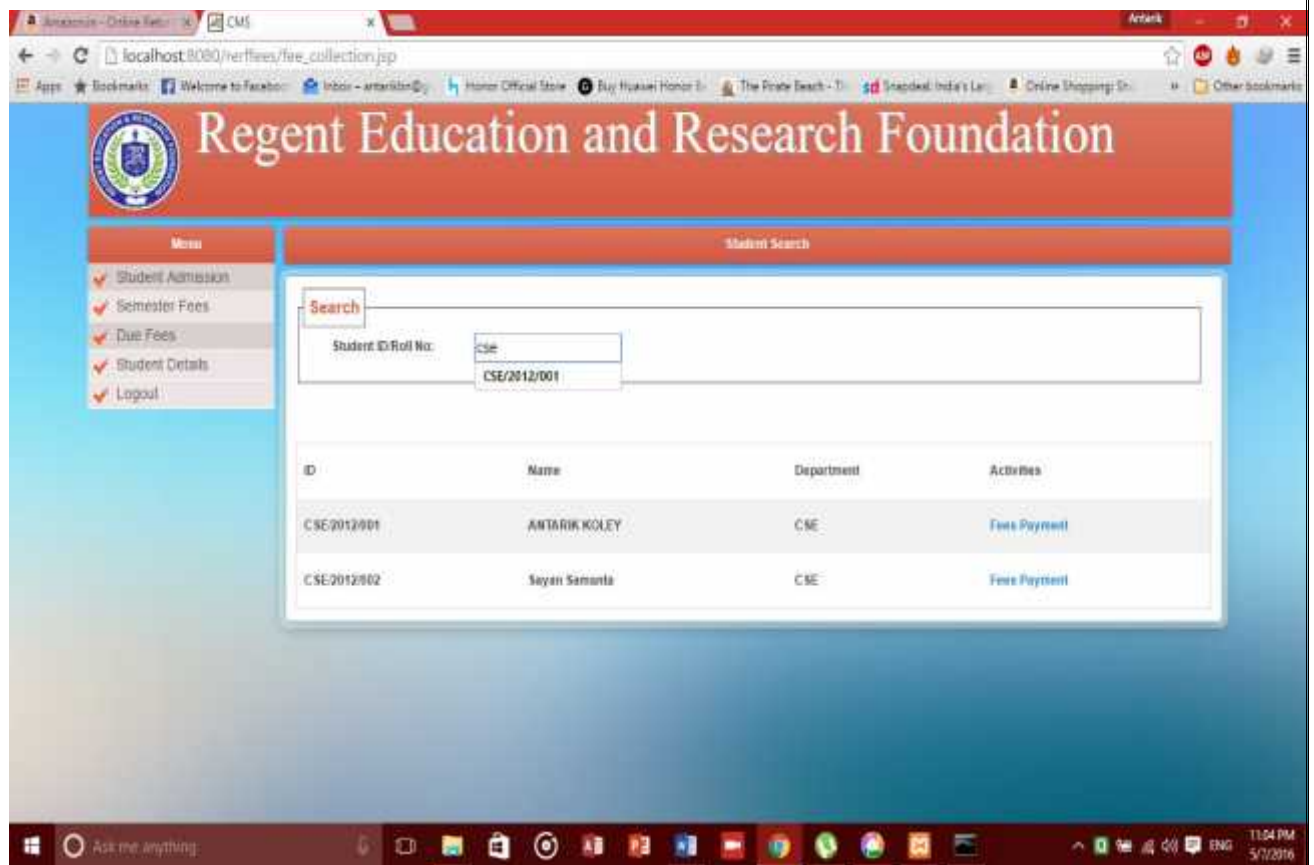


Fig. 12.11: Student list for fees collection

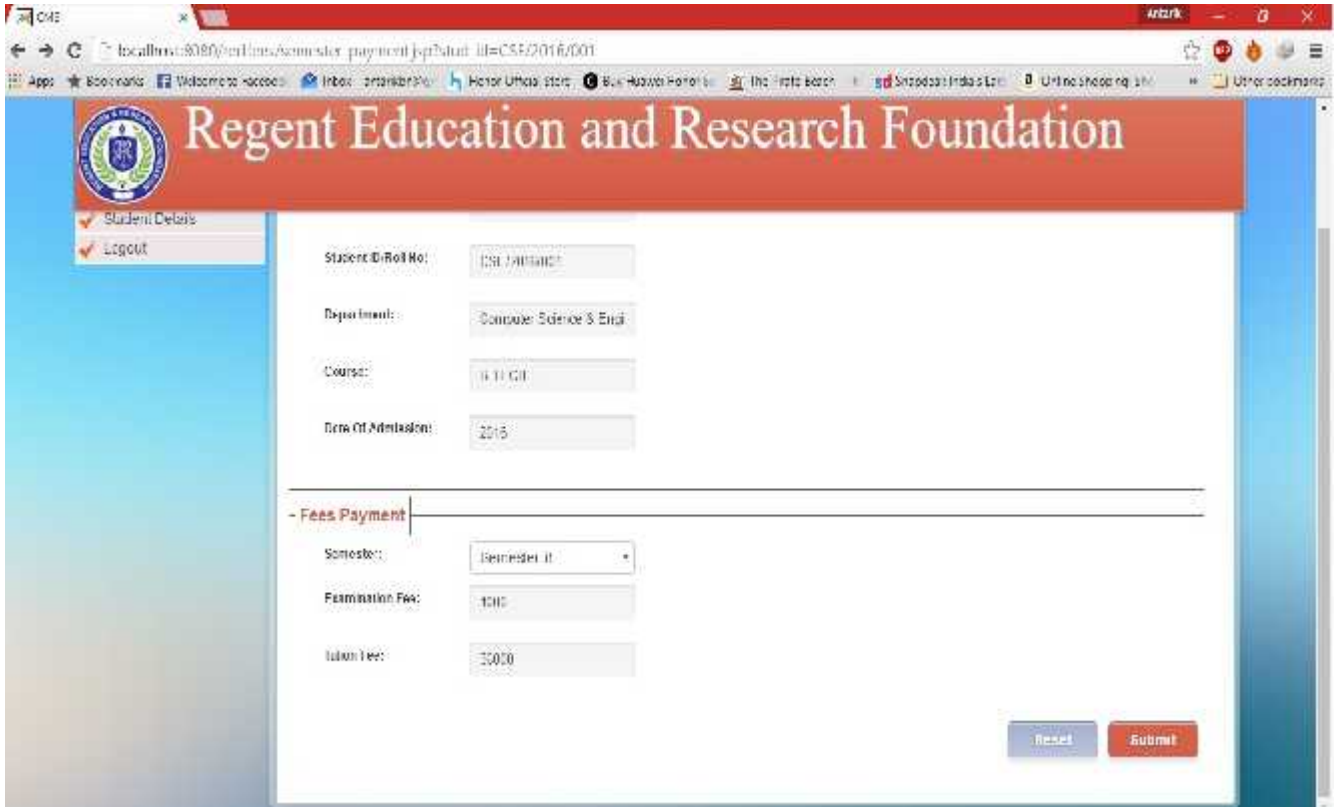
semester_payment.jsp

The screenshot displays a web application for the Regent Education and Research Foundation. The browser's address bar shows the URL: `localhost:8080/semfee/semester_payment.jsp?stud_id=0201/2016/001`. The page features a red header with the institution's name and logo. A left sidebar contains a 'Menu' with links: Student Admission, Semester Fees, Due Fees, Student Details, and Logout. The main content area, titled 'Student Details', is divided into two sections. The 'Basic Information' section shows the following data: Name of Candidate: Anjali Koley, Student ID/Roll No.: CSE2016001, Department: Computer Science & Engg., Course: B.TECH, and Date Of Admission: 2016. The 'Fees Payment' section includes a Semester dropdown menu set to 'Semester I', and empty input fields for Examination Fees and Tuition Fee.

Student Details	
- Basic Information	
Name of Candidate:	Anjali Koley
Student ID/Roll No.:	CSE2016001
Department:	Computer Science & Engg.
Course:	B.TECH
Date Of Admission:	2016
- Fees Payment	
Semester:	Semester I
Examination Fees:	
Tuition Fee:	

Fig. 12.12: Semester Payment(Part 1)

semester_payment.jsp



The screenshot shows a web browser window displaying the 'semester_payment.jsp' page. The browser's address bar shows the URL: `localhost:8080/berlin/semester_payment.jsp?stud_id=CSE/2016/001`. The page header features the logo of Regent Education and Research Foundation on the left and the text 'Regent Education and Research Foundation' in a large, serif font on the right. Below the header, there is a sidebar with two links: 'Student Details' and 'Logout'. The main content area contains a form with the following fields: 'Student ID/Roll No:' with the value 'CSE/2016/001', 'Department:' with the value 'Computer Science & Engg', 'Course:' with the value 'B.Tech', and 'Date Of Admission:' with the value '2016'. Below these fields, there is a section titled '- Fees Payment' which includes a dropdown menu for 'Semester:' set to 'Semester II', a text input for 'Examination Fee:' with the value '1000', and a text input for 'Tuition Fee:' with the value '35000'. At the bottom right of the form, there are two buttons: 'Reset' and 'Submit'.

Student ID/Roll No:	CSE/2016/001
Department:	Computer Science & Engg
Course:	B.Tech
Date Of Admission:	2016
- Fees Payment	
Semester:	Semester II
Examination Fee:	1000
Tuition Fee:	35000
<input type="button" value="Reset"/> <input type="button" value="Submit"/>	

Fig. 12.13: Semester Payment (Part 2)

semester payment complete.jsp

The screenshot shows a web browser window displaying the 'Semester Payment' completion page for the Regent Education and Research Foundation. The page features a red header with the foundation's logo and name. Below the header, a table lists the payment details for a specific bill. The table includes columns for the item name and the amount. The items listed are 'Examination Fee' (1000), 'Admission Fee' (3000), and 'Total Amount' (3700). A green box at the bottom of the table area displays a success message: 'Success! Payment Successful.' and a button labeled 'Print' for generating an invoice.

Semester Payment	
Bill No	REGEDRF02
Examination Fee	1000
Admission Fee	3000
Total Amount	3700

Success! Payment Successful.
Click [Print](#) for Invoice

Fig. 12.14: Semester Payment Complete

fee_bill.pdf (For Semester Payment)

Regent Education and Research Foundation Money Receipt for Semester-8

College Copy/Student Copy

Bill No :S00000102	Student ID :CSE/2016/001
Student Name :Anturik Koley	Course :B.TECH
Department Name :CSE	Admission Date :Tue May 03 19:35:25 IST 2016

Fee Detail	Amount
Examination Fee	1000
Tuition Fee	26000
Total :	37000

Received By:

Signature(With Date):

Regent Education and Research Foundation Money Receipt for Semester-8

College Copy/Student Copy

Bill No :S00000102	Student ID :CSE/2016/001
Student Name :Anturik Koley	Course :B.TECH
Department Name :CSE	Admission Date :Tue May 03 19:35:25 IST 2016

Fee Detail	Amount
Examination Fee	1000
Tuition Fee	26000
Total :	37000

Received By:

Signature(With Date):

Fig. 12.15: Invoice for Semester Fees

due_fees.jsp

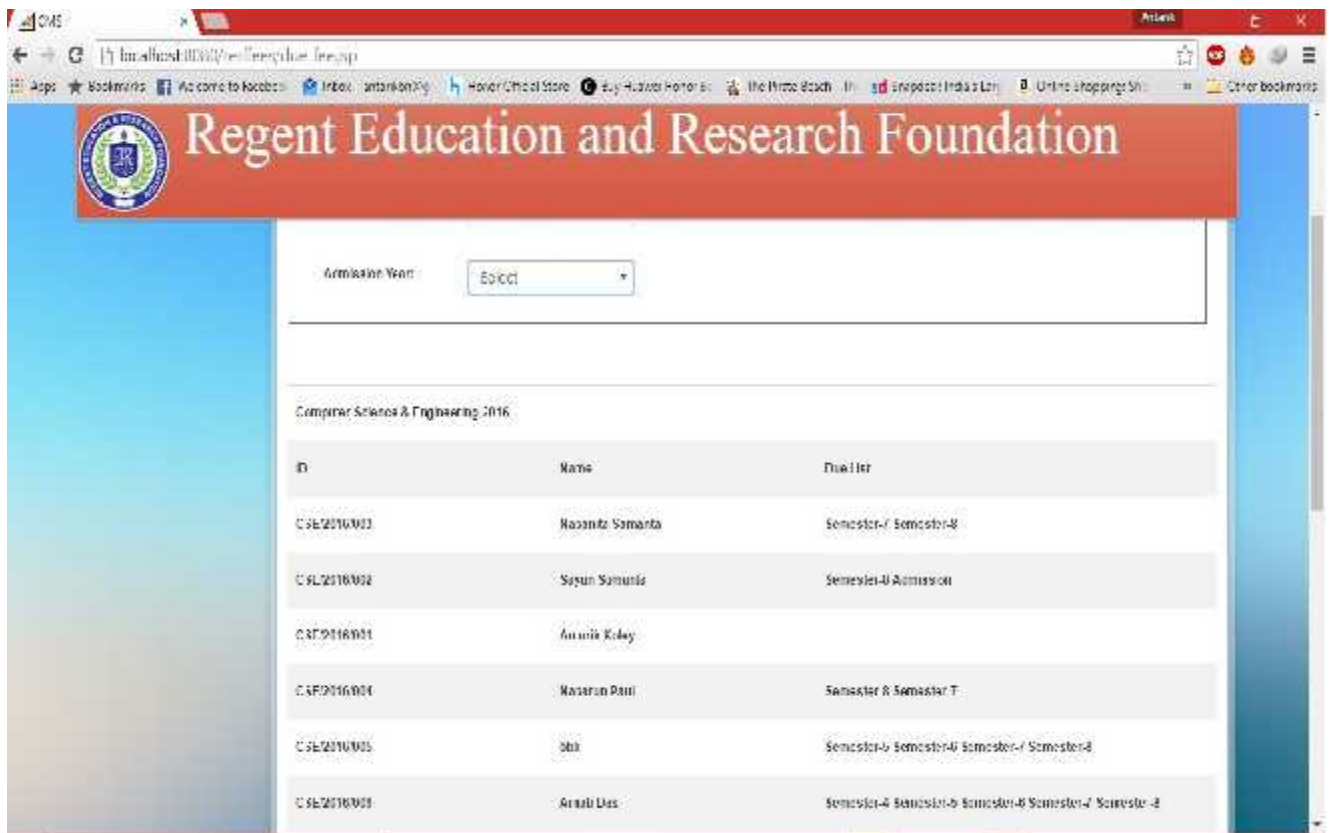
The screenshot displays a web browser window with the URL `localhost:8080/web/dues.jsp`. The page header features the Regent Education and Research Foundation logo and name. A navigation menu on the left includes links for Student Admission, Semester Fees, Due Fees, Student Details, and Logout. The main content area is titled 'Student Search' and contains a search form with the following fields:

- Course:** A dropdown menu currently showing 'B.A - HON'.
- Department:** A dropdown menu currently showing 'Computer Science & ...'.
- Admission Year:** A dropdown menu currently showing 'Select'.

Below the search fields is a large empty rectangular box, likely intended for displaying search results.

Fig. 12.16: Student search for due fees

due_fees.jsp



ID	Name	Due Fee
CSE2016001	Rashmi Samanta	Semester-I Semester-II
CSE2016002	Sayun Samanta	Semester-III Admission
CSE2016003	Ananta Koley	
CSE2016004	Nayan Paul	Semester-I Semester-II
CSE2016005	Sita	Semester-I Semester-II Semester-III Semester-IV
CSE2016006	Anjali Das	Semester-I Semester-II Semester-III Semester-IV Semester-V

Fig. 12.17: Student List for due fees

student_info.jsp



Fig. 12.18: Student Details

logoutprocess.jsp

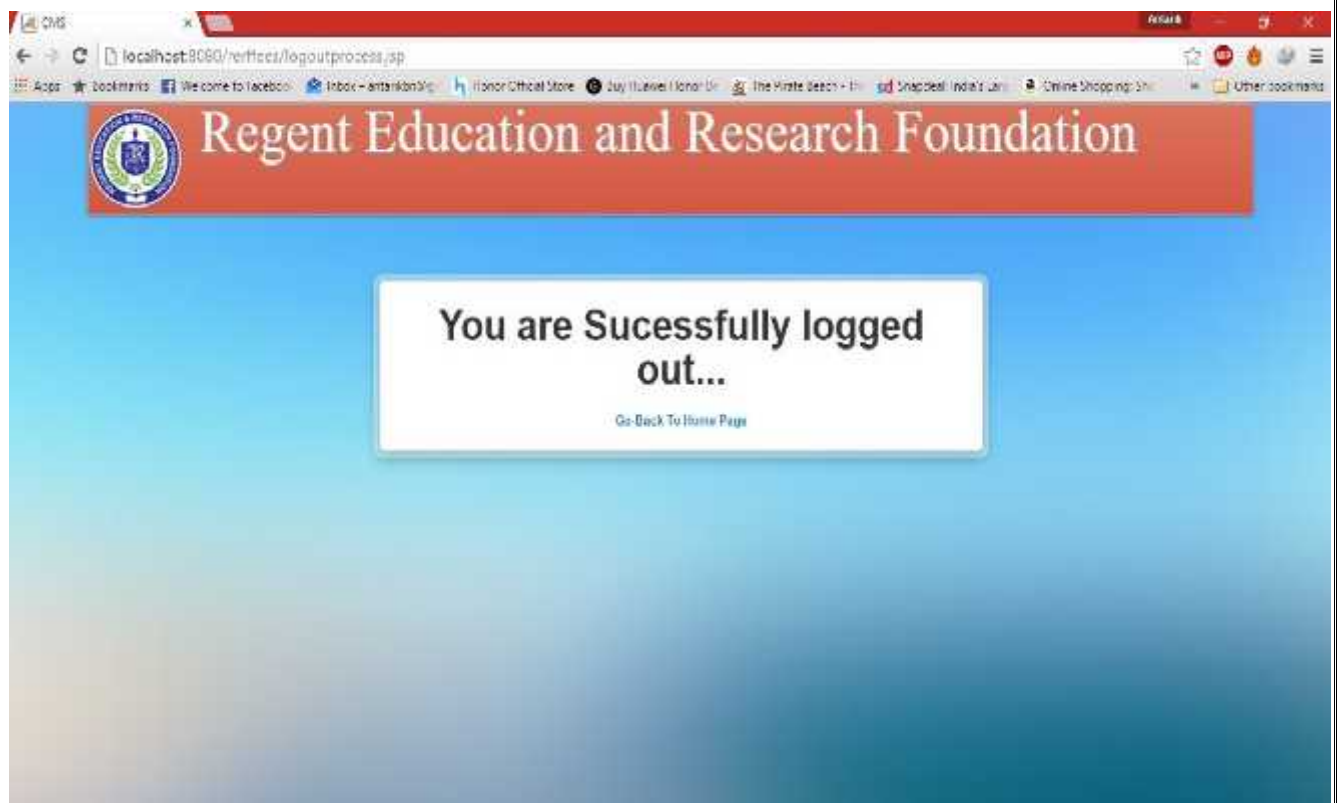


Fig. 12.19: Logout Form

13. FUTURE SCOPE OF THE PROJECT

Our project “FEE MANAGEMENT SYSTEM” will be able to implement in future after making some changes and modifications as we make our project at a very low level. So the modifications that can be done in our project is to add one major change which can be done in this project is that to add an online system where the students can pay their semester fees through online payment gateway to college bank account. This will result more accessibility of the fees management system. Similarly various modifications can be done to enhance the usability of the given project as suitable for user’s requirement.

14. CONCLUSION

From this project we can conclude that if this program is very useful in fee management as it provides more convenience than the manual work. It provides easy methods to manage the load of work easily for the users. It is much fast and more efficient as the data once entered can be modified and accessed easily. The program can be used per the requirement of the user as it is very easy to understand.

15. REFERENCES

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Database Systems Concepts

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