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

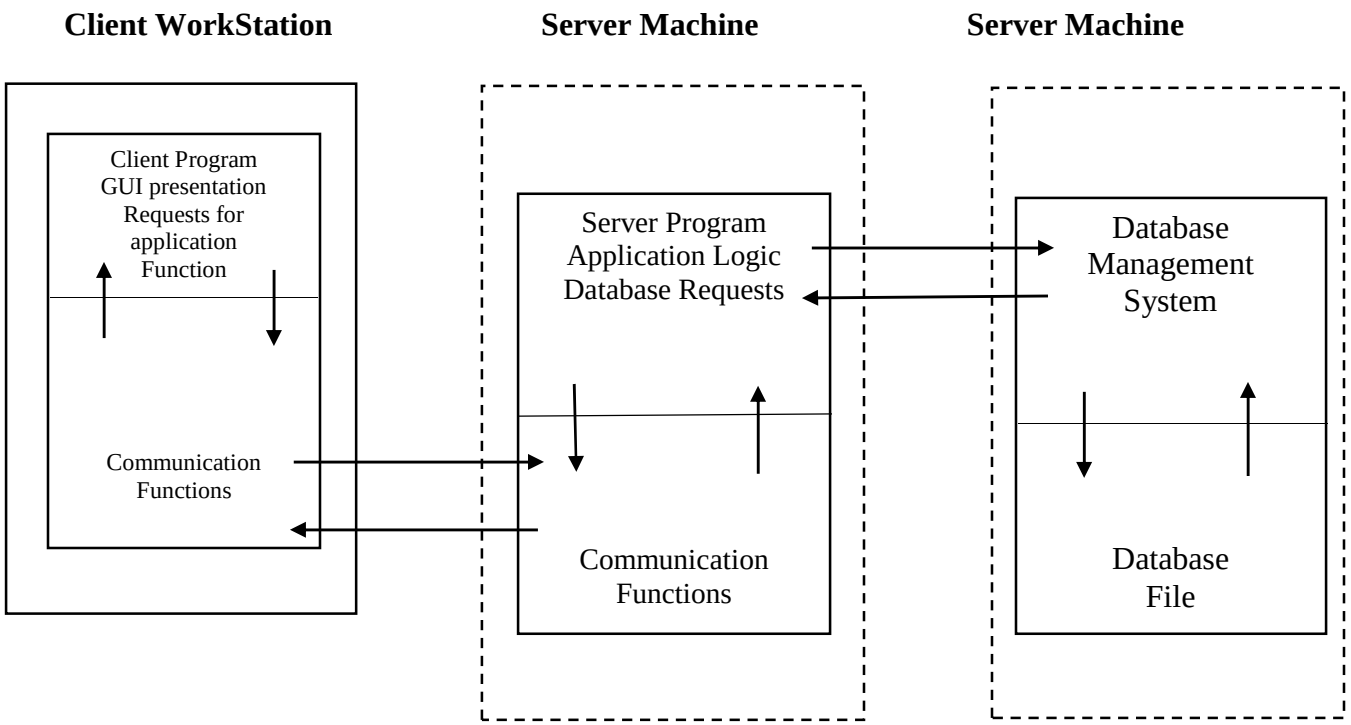

Fig. 7.1: 3-Tier Client/Server Architecture

8. DATA FLOW DIAGRAM (DFD)

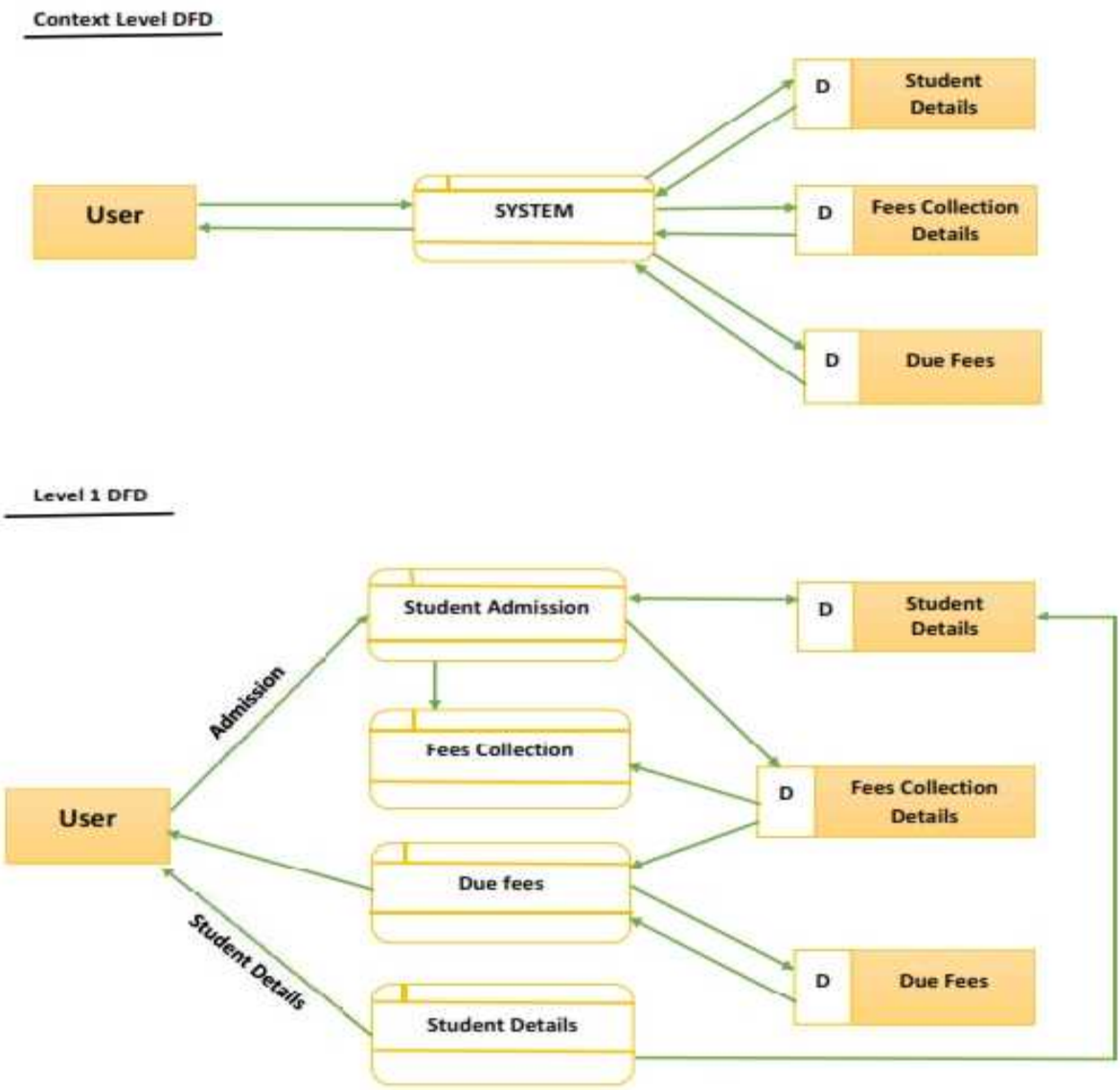

Fig. 8.1: Data Flow Diagram(DFD)

9. ENTITY-RELATIONSHIP DIAGRAM

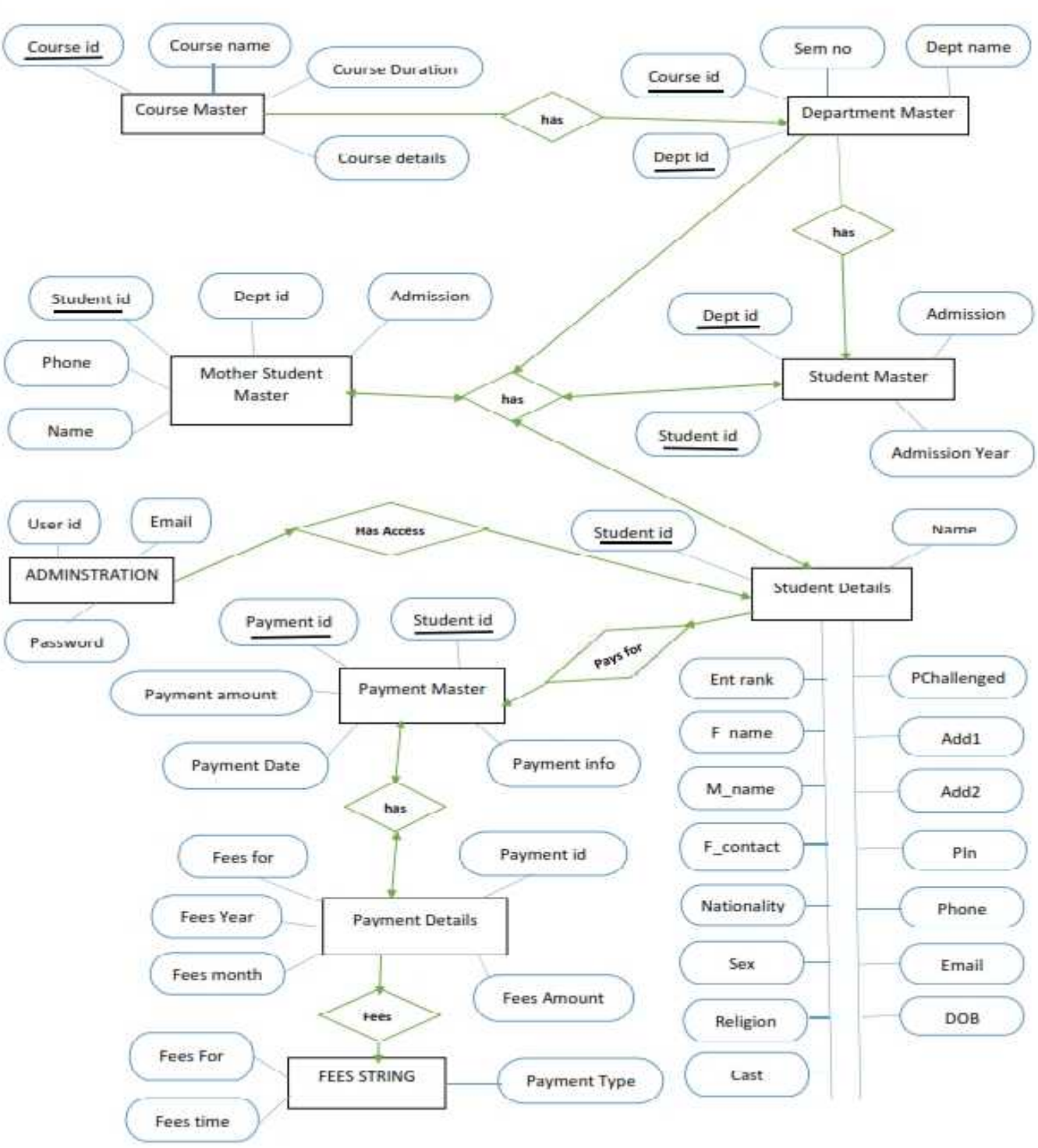

Fig. 9.1: Entity-Relationship Diagram

10. SCHEMA DIAGRAM

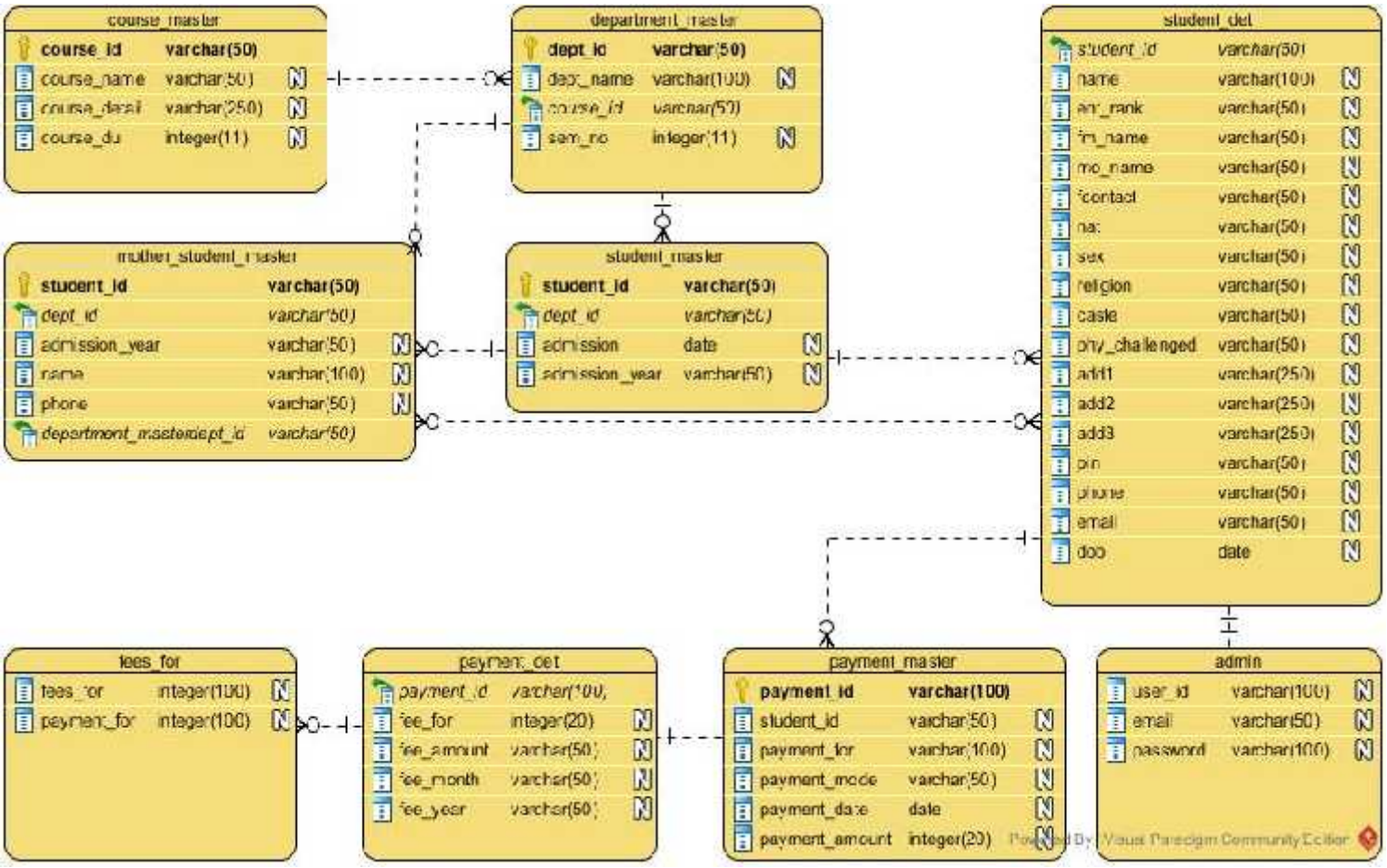

Fig. 10.1: Schema Diagram

11. WORKFLOW DIAGRAM

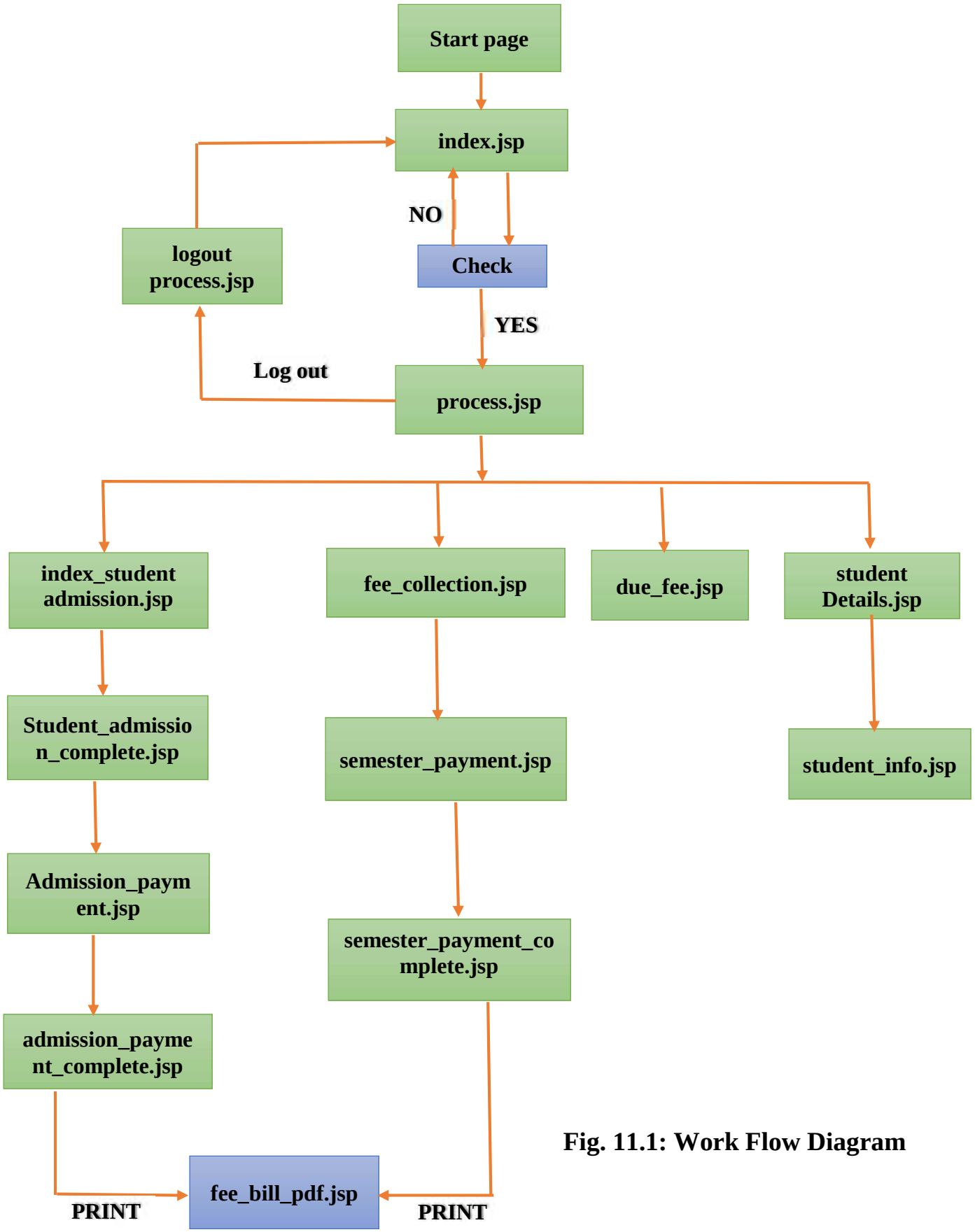

Fig. 11.1: Work Flow Diagram

12. SNAPSHOTS

index.jsp

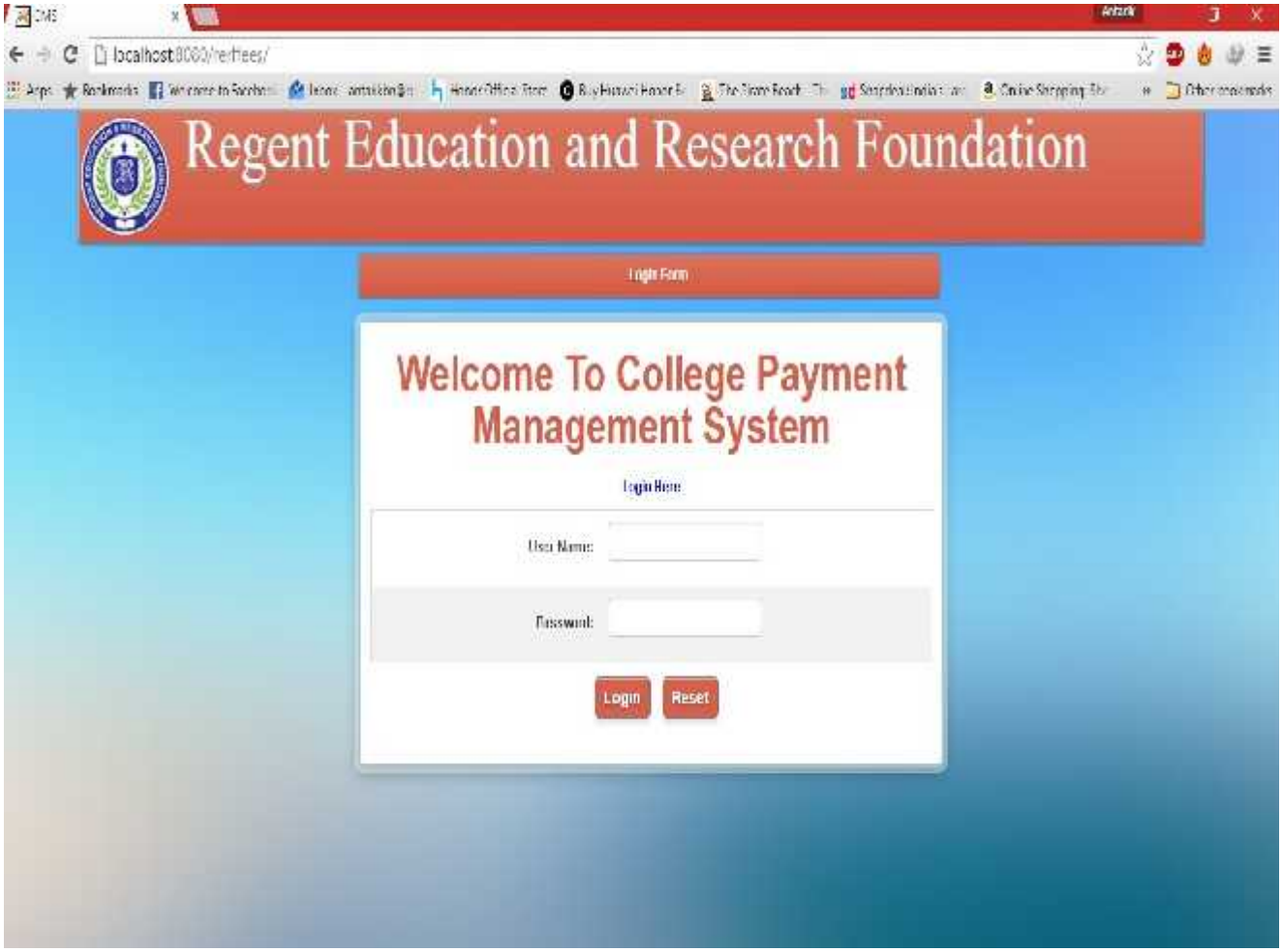

Fig. 12.1: Login Form

process.jsp

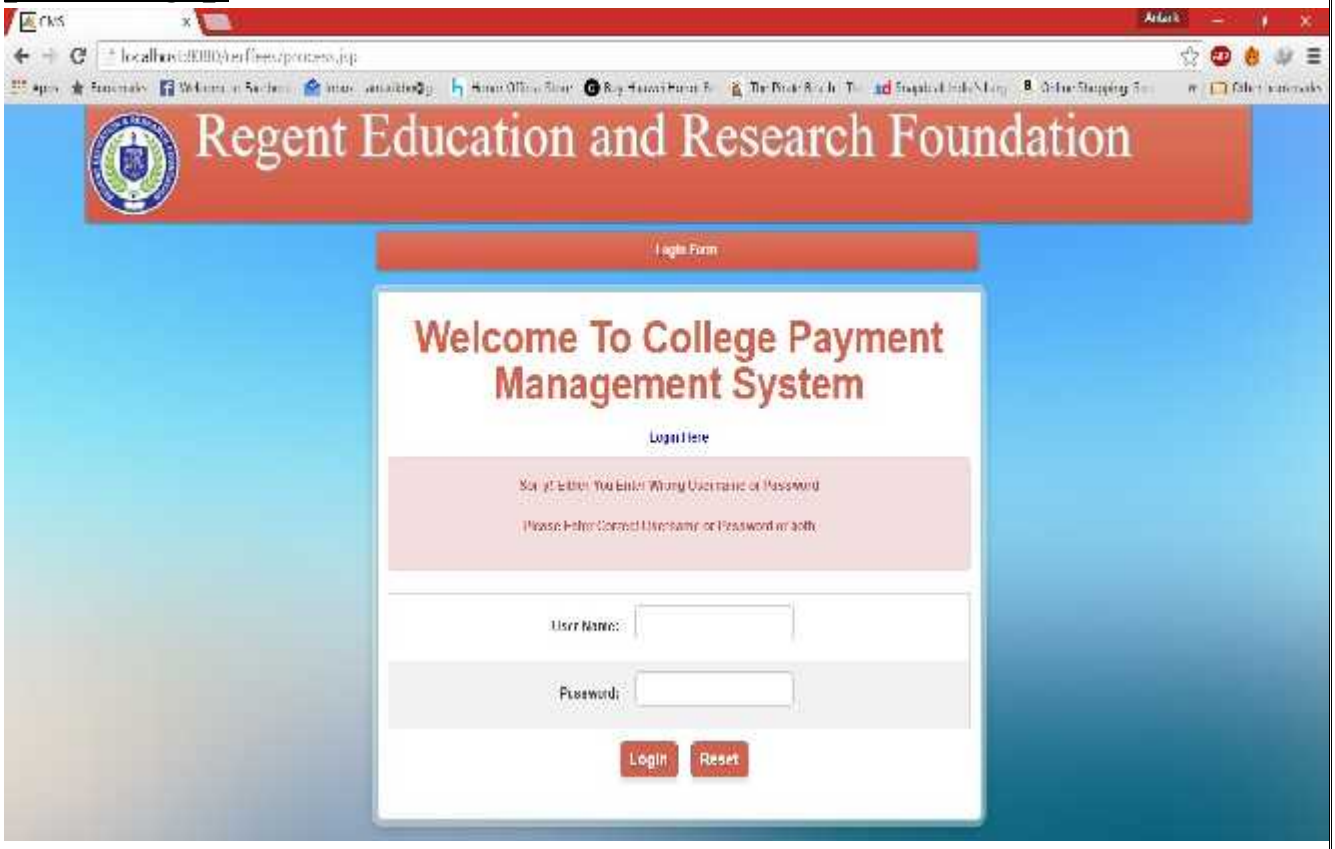

Fig. 12.2: Login Failed
Due to wrong username or password or both

process.jsp

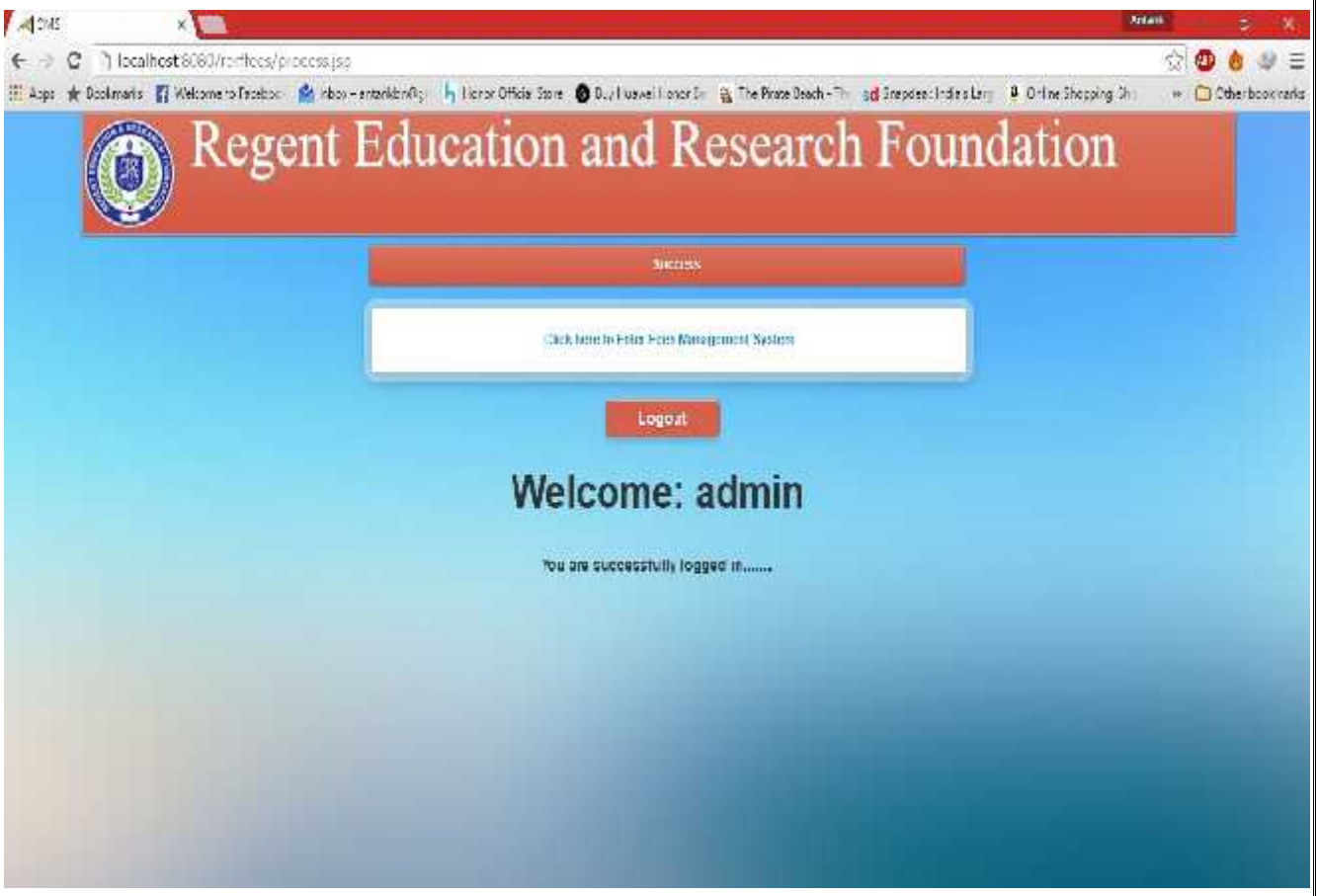

Fig. 12.3: Login Successfull

index_student admission.jsp

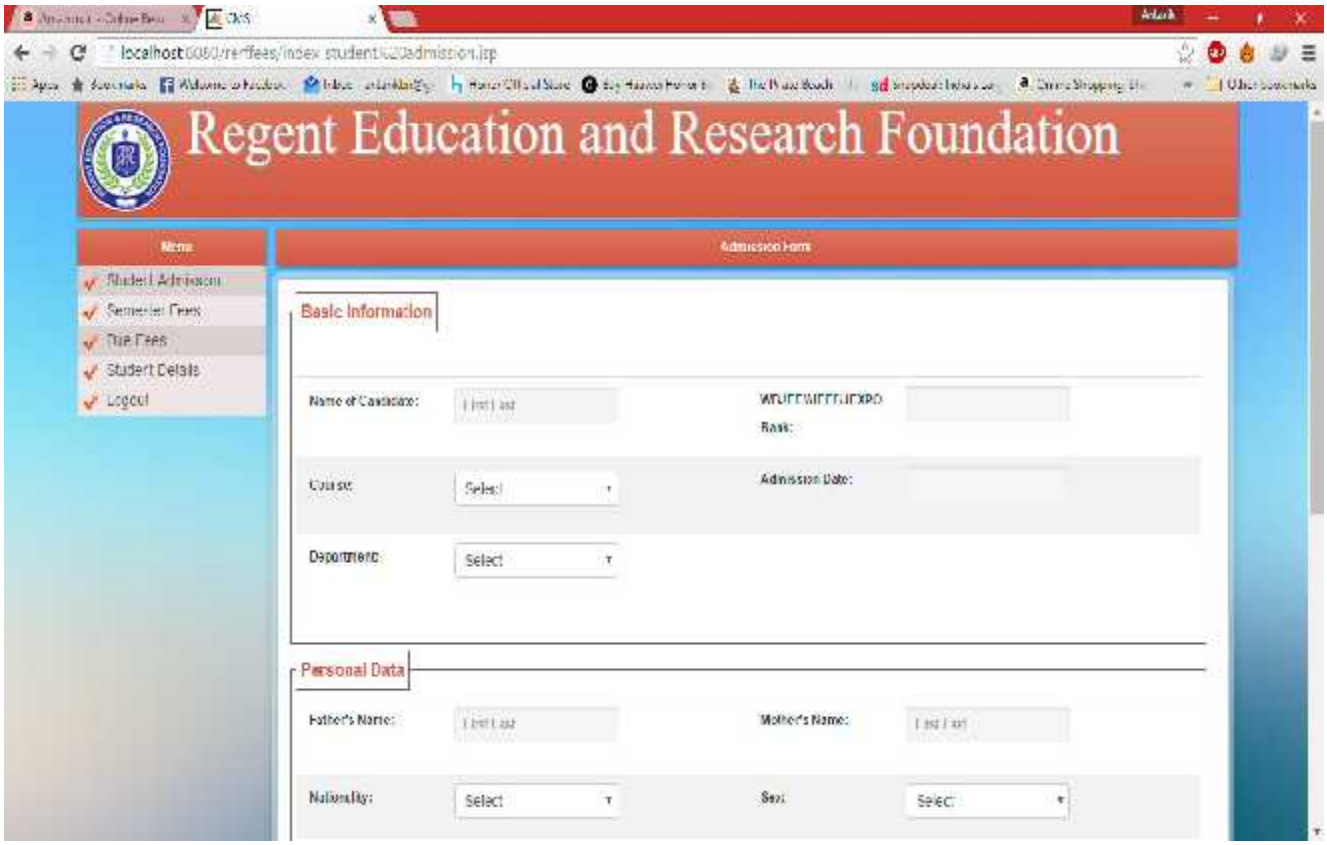

Fig. 12.4: Student Admission Form

student_admission_complete.jsp

Fig. 12.5: Student Admission Complete

admission_payment.jsp

Fig. 12.6: Admission Payment(Part 1)

admission_payment.jsp

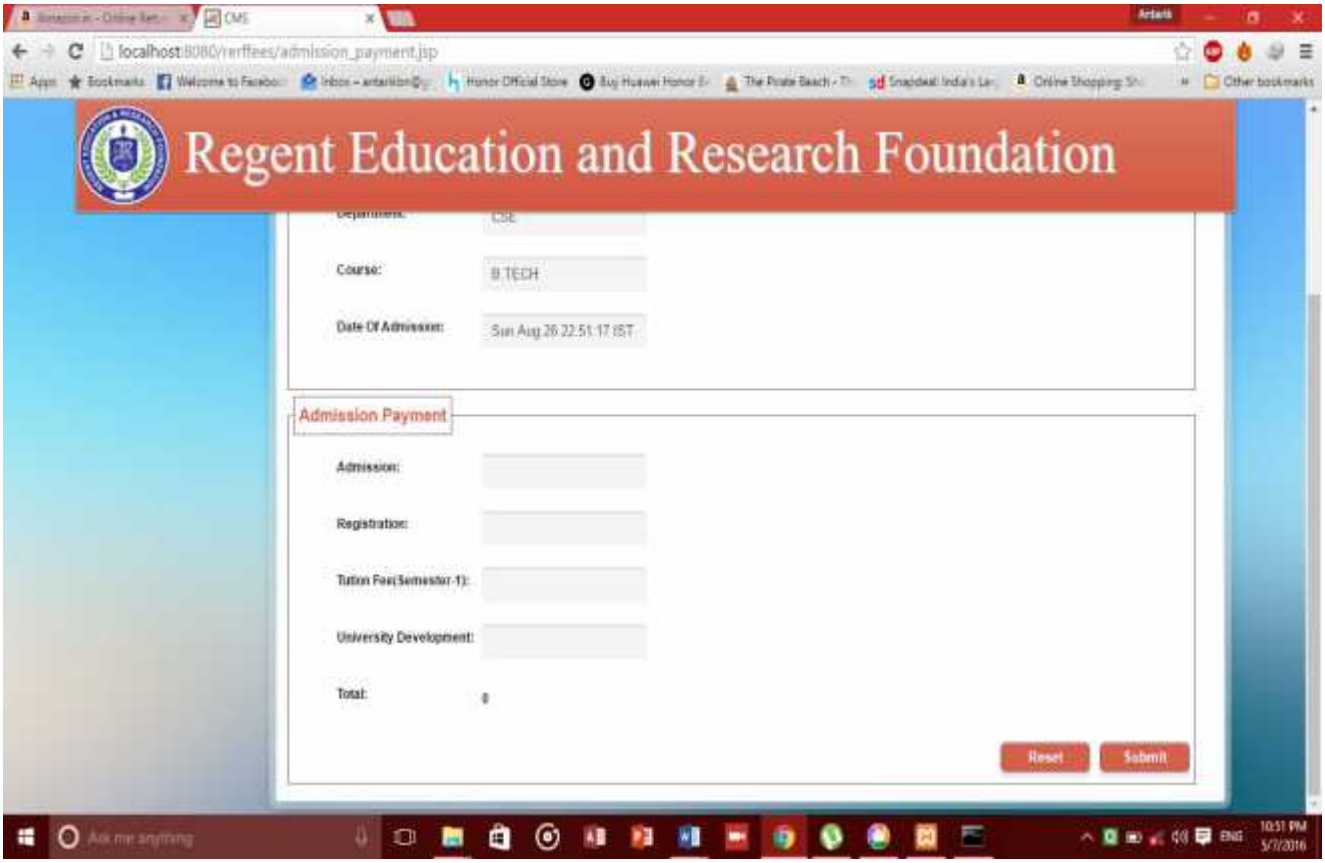

Fig. 12.7: Admission Payment (Part 2)

admission_payment_complete.jsp

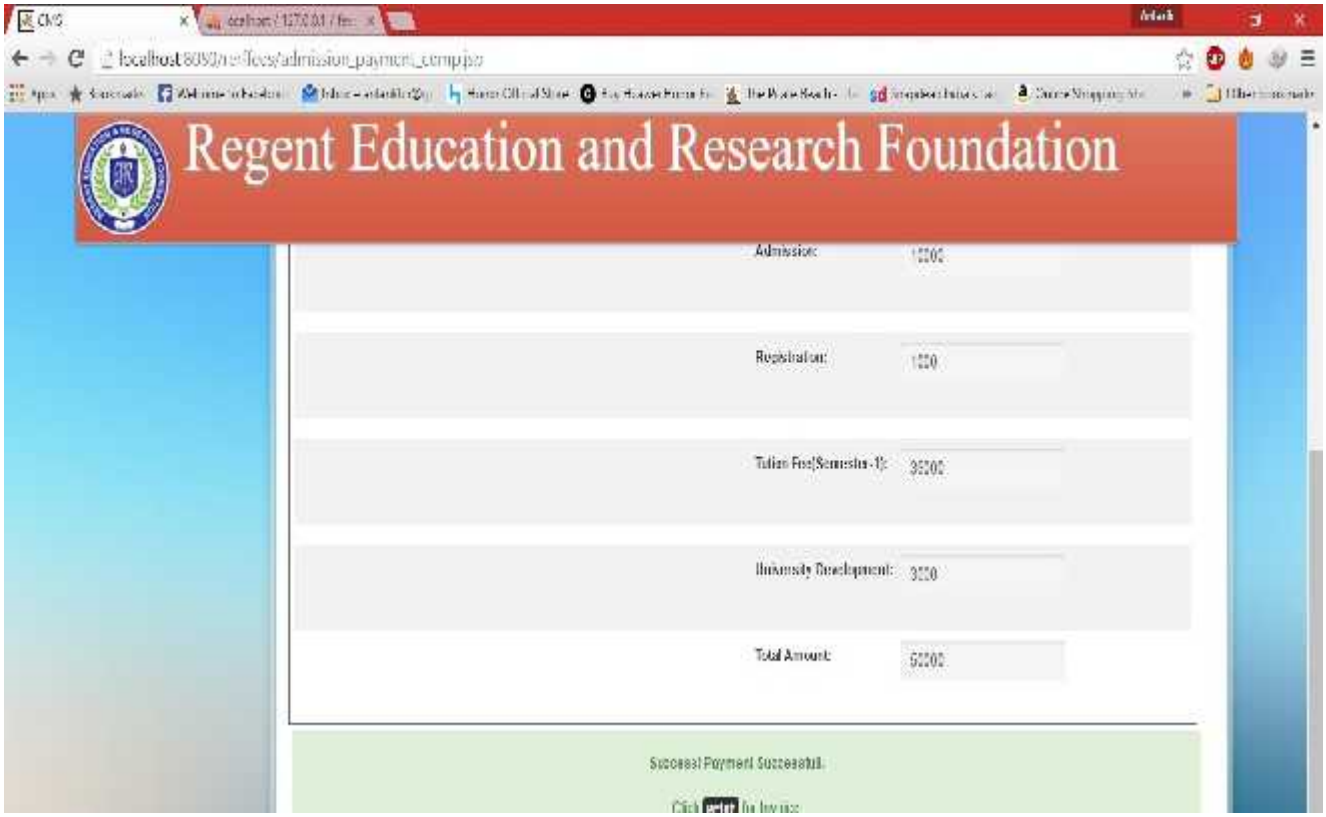

Fig. 12.8: Admission Payment Complete

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-1)	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-1)	36000
University Development	3000
Total :	50000

Received By:

Signature(With Date):

Fig. 12.9: Invoice for Admission

fee_collection.jsp

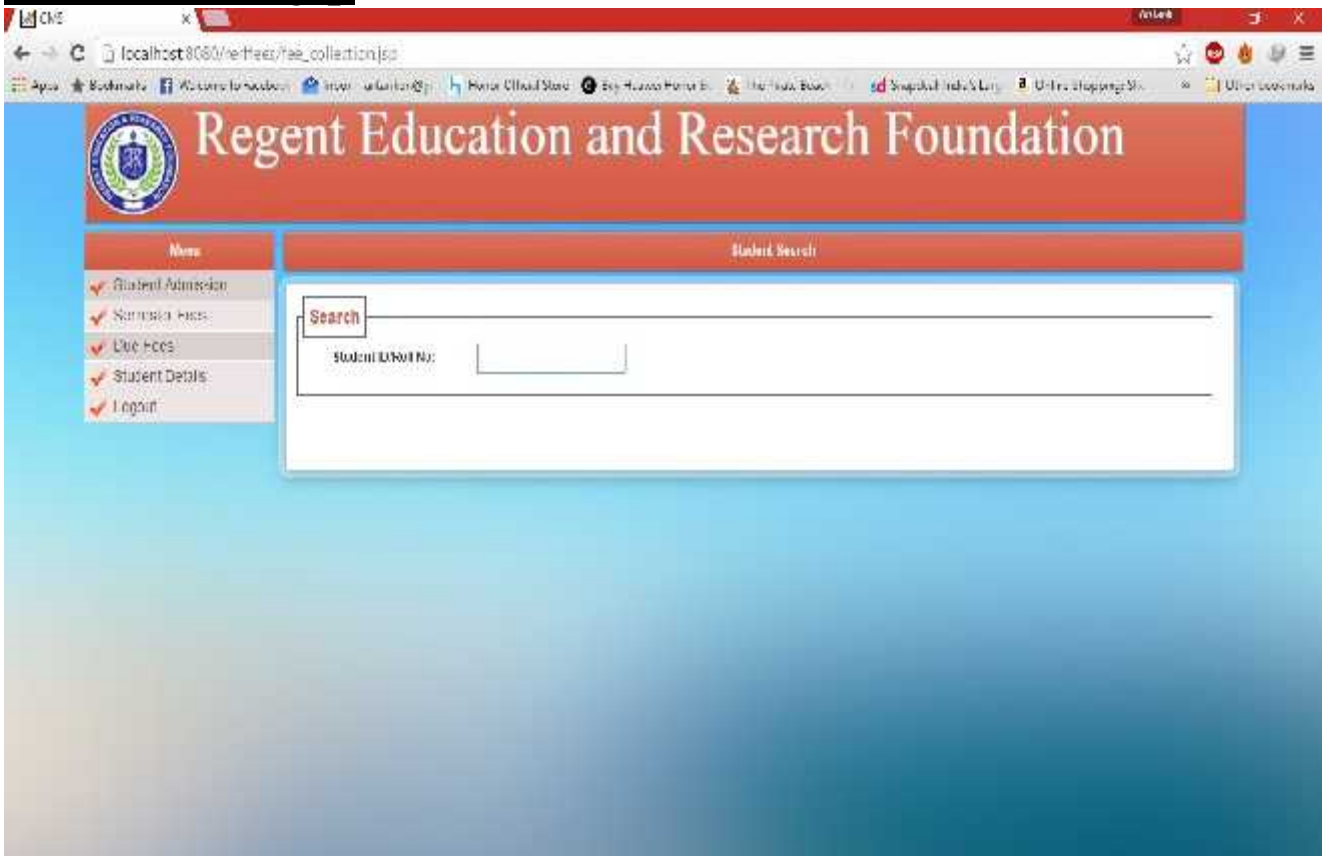

Fig. 12.10: Student Search form for fee collection

fee_collection.jsp

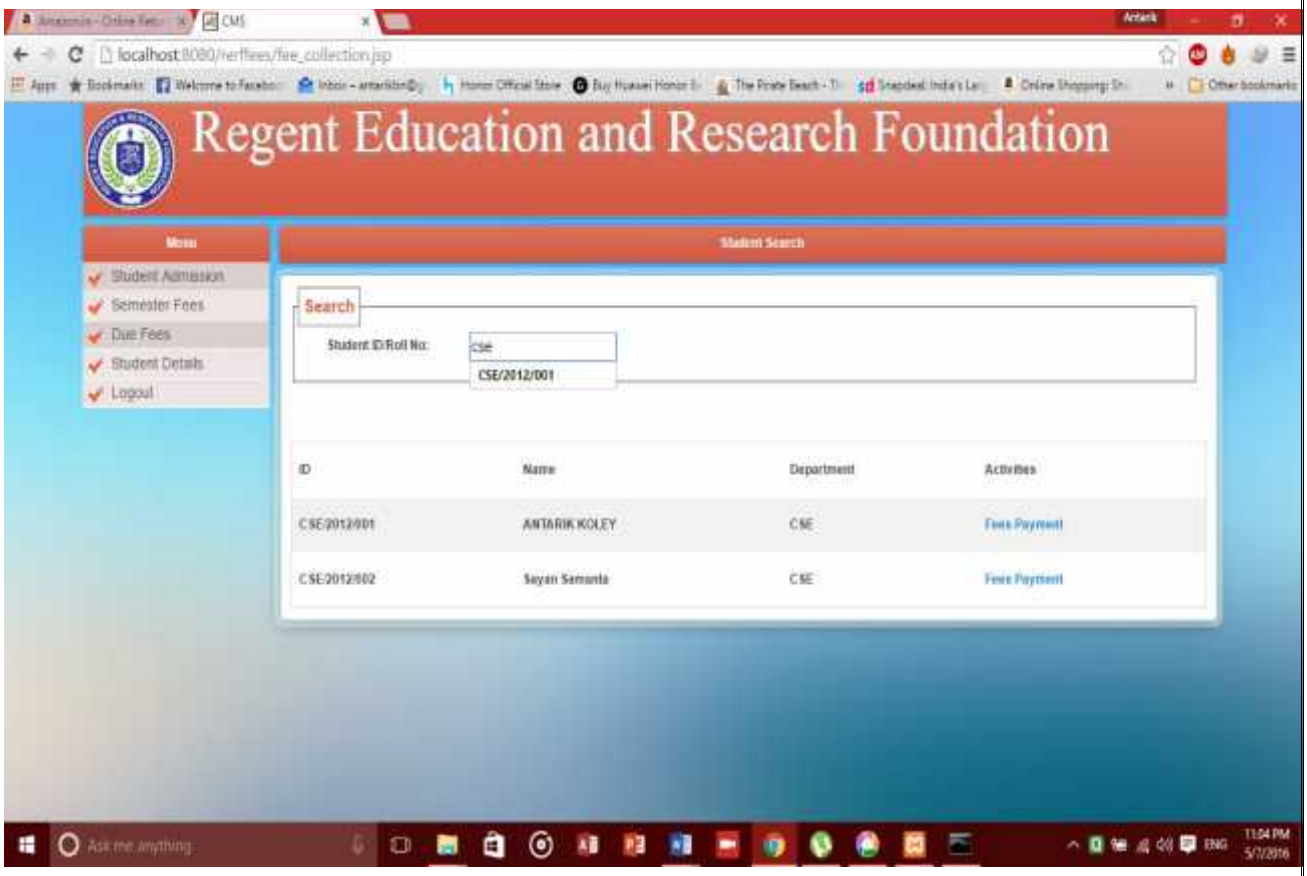

Fig. 12.11: Student list for fees collection

semester_payment.jsp

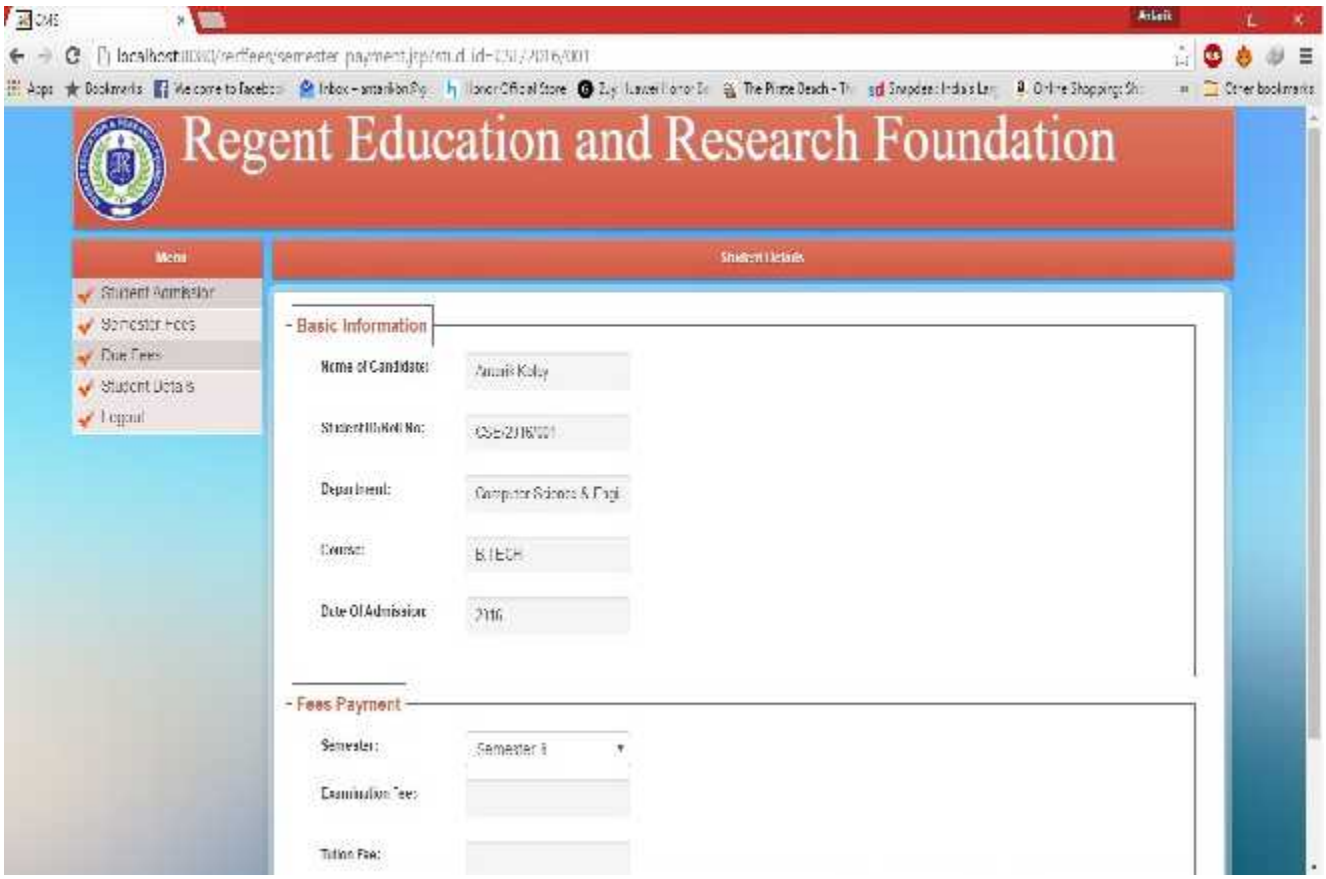

Fig. 12.12: Semester Payment(Part 1)

semester_payment.jsp

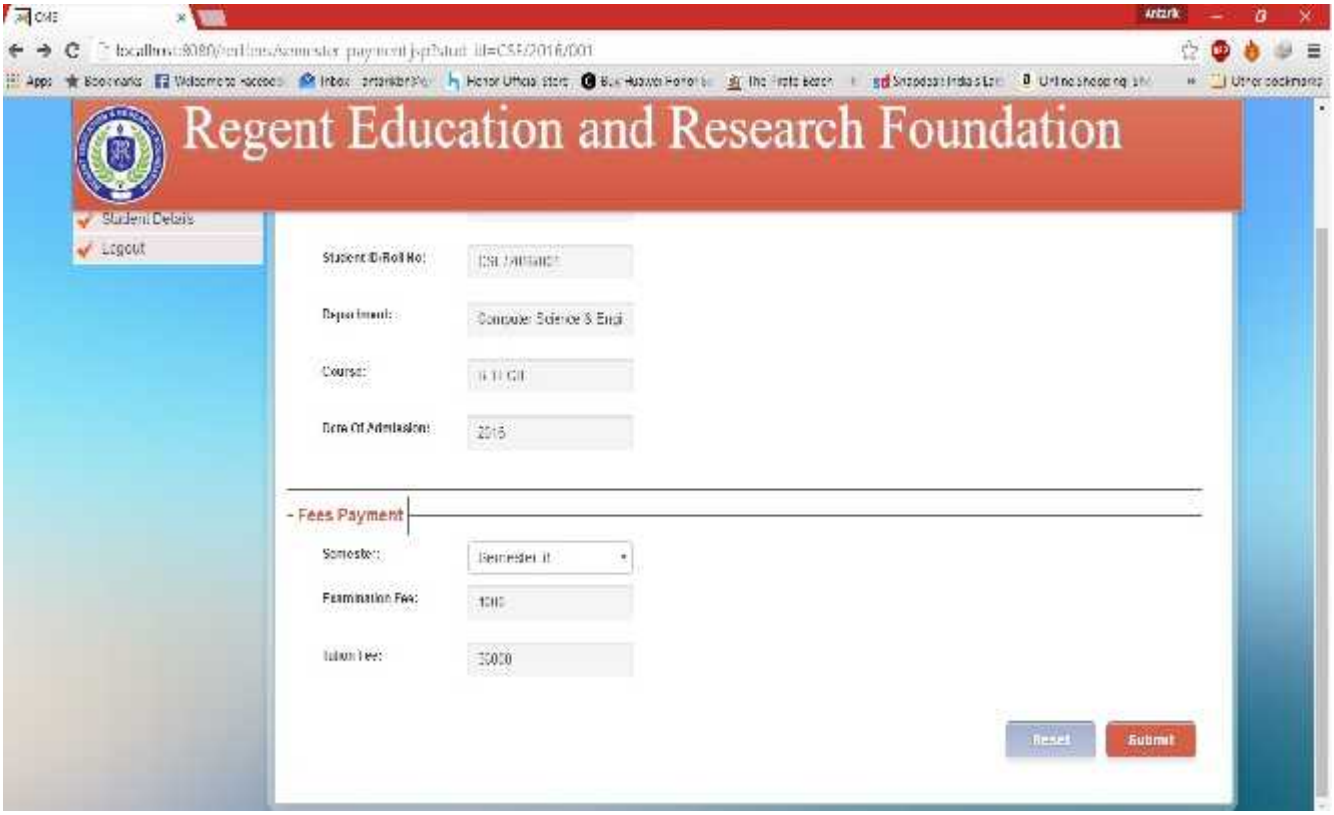

Fig. 12.13: Semester Payment (Part 2)

semester_payment_complete.jsp

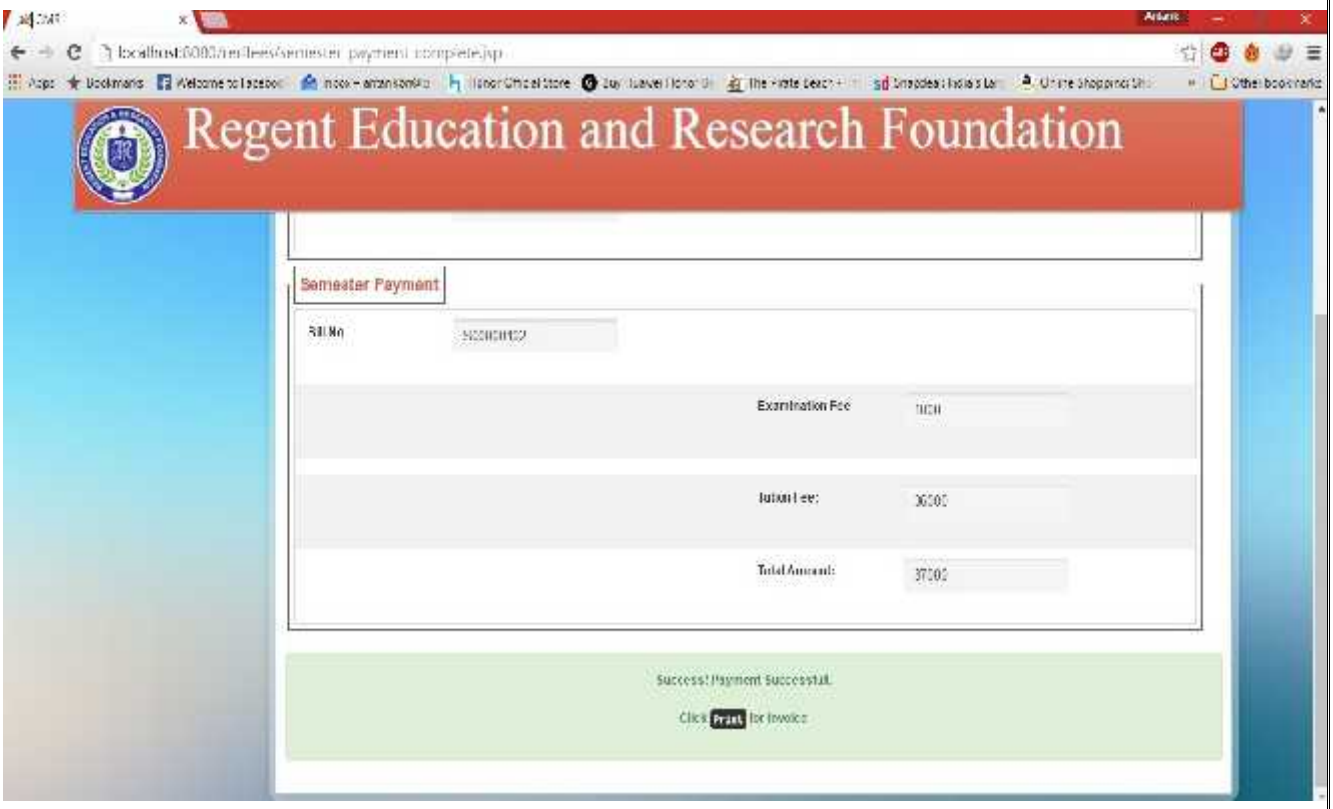

Fig. 12.14: Semester Payment Complete

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
Tution Fee	36000
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
Tution Fee	36000
Total :	37000

Received By:

Signature(With Date):

Fig. 12.15: Invoice for Semester Fees

due_fees.jsp

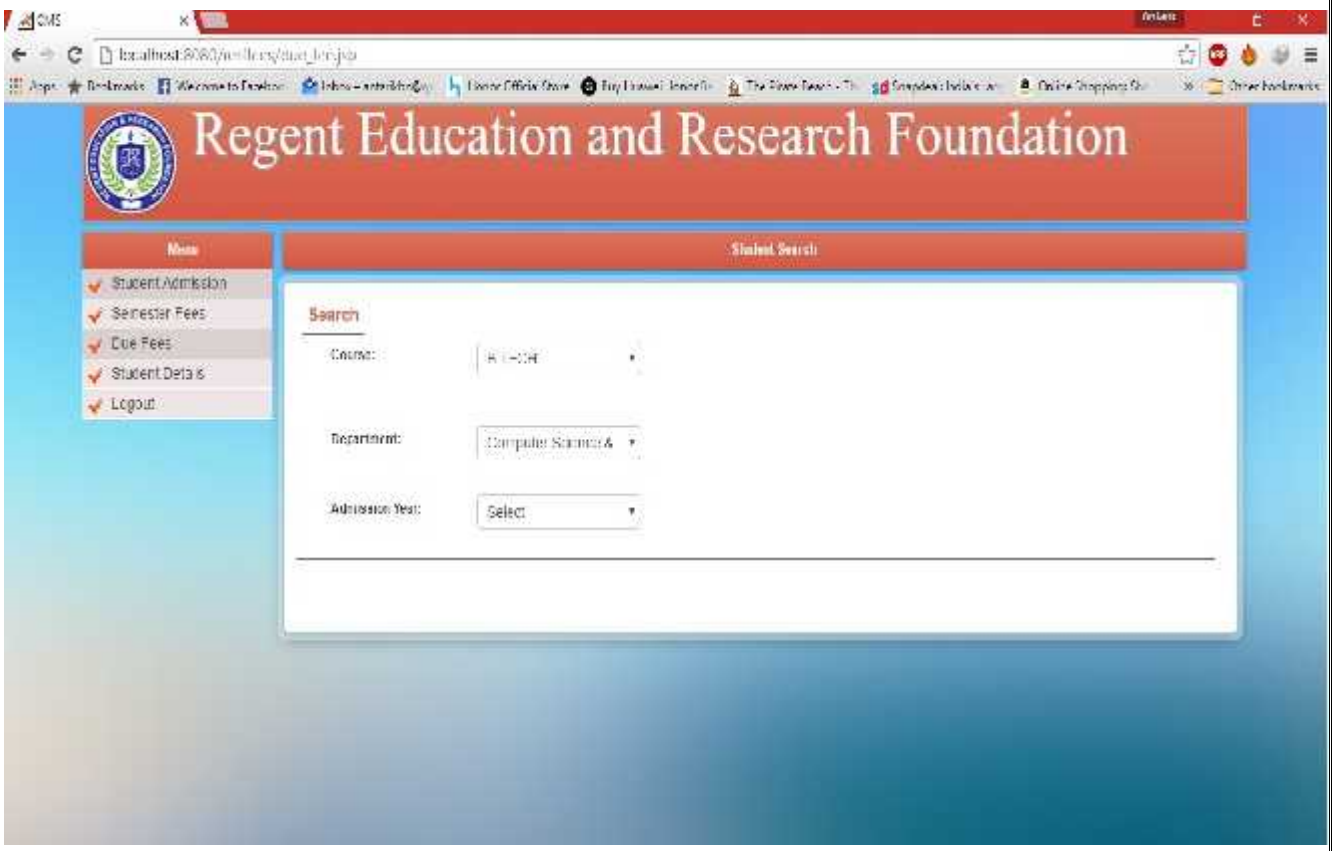

Fig. 12.16: Student search for due fees

due_fees.jsp

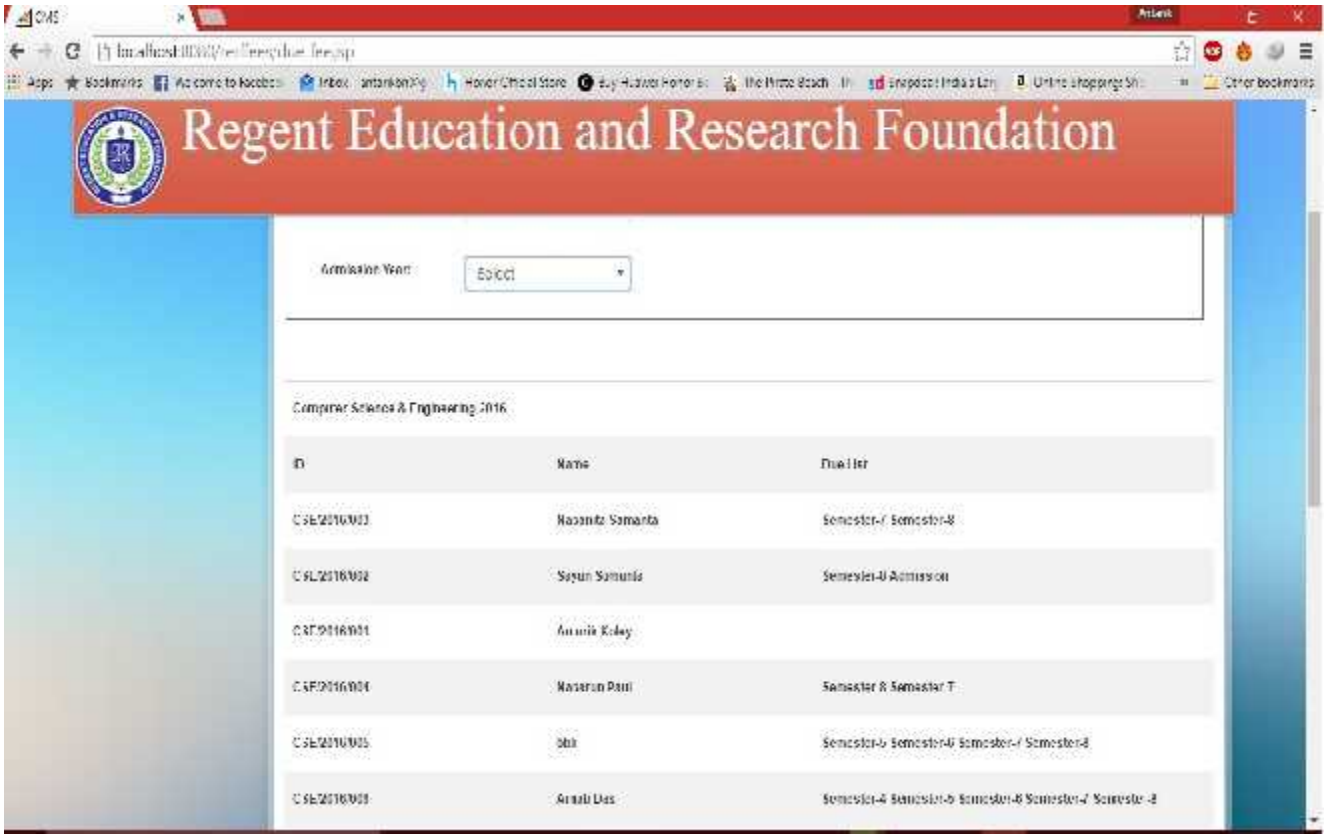

Fig. 12.17: Student List for due fees

student_info.jsp

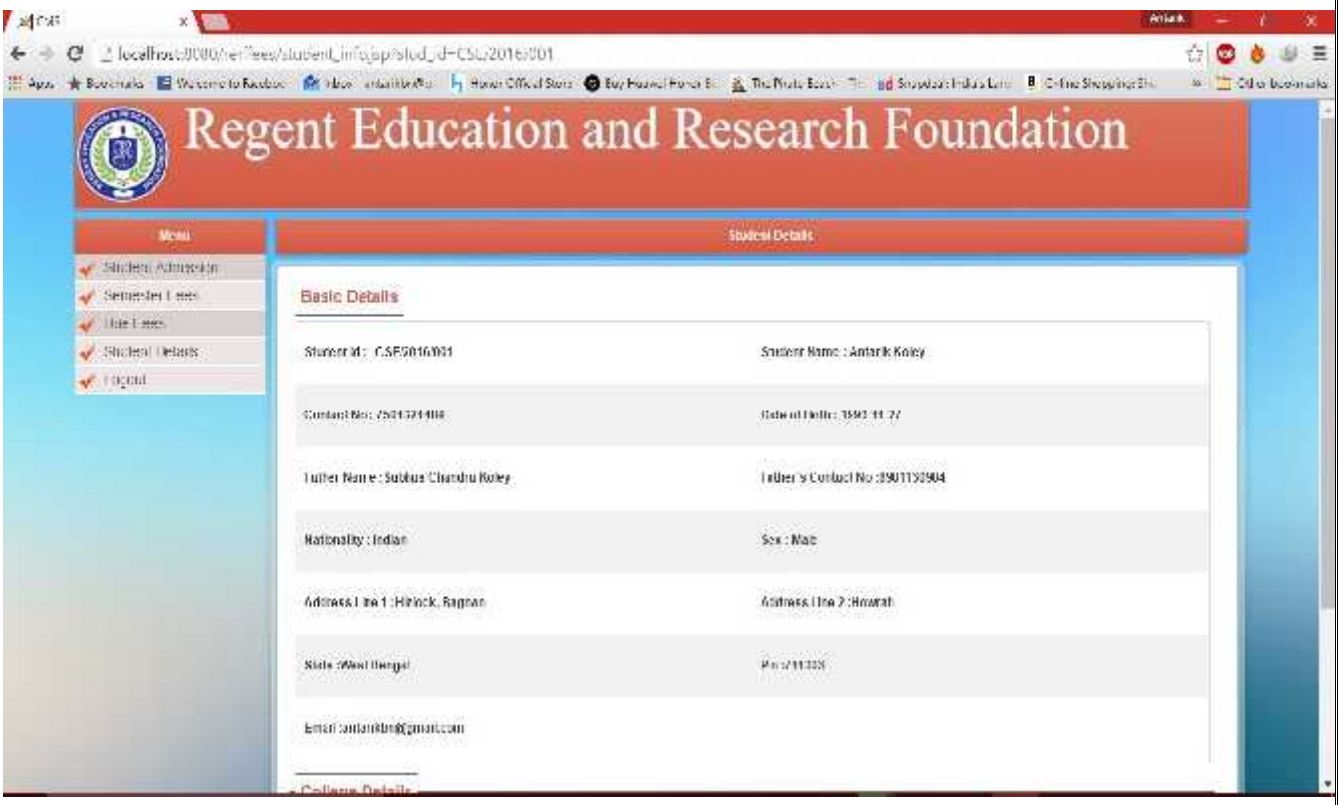

Fig. 12.18: Student Details

logoutprocess.jsp

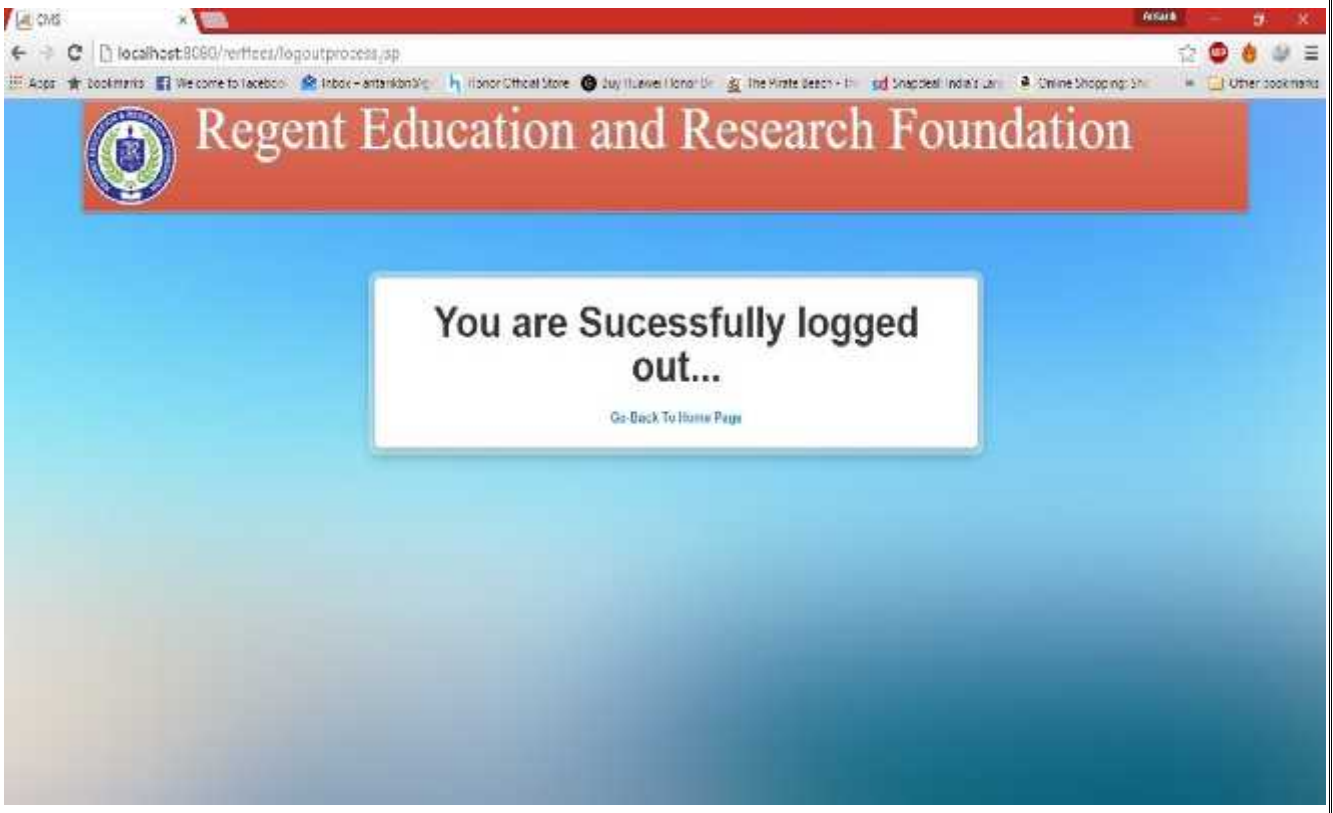

Fig. 12.19: Logout Form

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. REFFERENCES

Books:
Database Systems Concepts
By Abraham Silberschatz, Henry F. Korth and S. Sudarshan

Websites:
www. stackoverflow.com
www. bootsnipp.com/snippets
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www.codepen.io
www.google.co.in