Scholarship Portal

A Minor Project Report
Submitted in Partial fulfillment for the award of
Bachelor of Engineering in Computer Science & Engineering

Submitted to
RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA
BHOPAL (M.P)

MINOR PROJECT REPORT

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Session 2018-19

LAKSHMI NARAIN COLLEGE OF TECHNOLOGY & SCIENCE, BHOPAL (M.P)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that the work embodied in this Minor Project work entitled **"Scholarship Portal"** has been satisfactorily completed by the **Ankit Kumar Kasyap** (0157CS161024), **Akshat Gangrade** (0157CS161013) , **Apoorva Chauhan** (0157CS161035) , **Anushka Soni** (0157CS161033). It is a bonafide piece of work, carried out under the guidance, Prof. Bhawana Pillai, from **Department of Computer Science & Engineering**, **Lakshmi Narain College of Technology & Science, Bhopal** for the partial fulfillment of the **Bachelor of Engineering** during the academic year 2018-19.

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This foregoing project work is hereby approved as a creditable study of Engineering carried out and presented in a manner satisfactory to warranty its acceptance as a prerequisite to the degree for which it has been submitted. It is understood that by this approval the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn their in, but approve the project only for the purpose for which it has been submitted.

Internal Examiner **External Examiner**

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DECLARATION

We**, Ankit Kumar Kasyap** (0157CS161024), **Akshat Gangrade** (0157CS161013) , **Apoorva Chauhan** (0157CS161035) , **Anushka Soni** (0157CS161033). student of **"**Bachelor of Engineering in Computer science & engineering", **session: 2018 - 19, Lakshmi Narain College of Technology & Science Bhopal (M.P.),** hereby declare that the work presented in this project entitled **"Scholarship Portal"** is the outcome of our own work, is bonafide and correct to the best of our knowledge and this work has been carried out taking care of Engineering Ethics. The work presented does not infringe any patented work and has not been submitted to any other University or anywhere else for the award of any degree or any professional diploma.

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ACKNOWLEDGEMENT

We express our deep sense of gratitude to Prof. Bhawana Pillai , department of Computer Science & Engineering, Lakshmi Narain College of Technology and Science, Bhopal, whose valuable guidance and timely help encouraged me to complete this project.

A special thanks goes to Dr.Bhupesh Gour , Prof.Bhawana Pillai & Head of Department, who helped me by providing timely suggestions in completing this project work. She exchanged her interesting ideas & thoughts which made this project work successful.

We would also thank our institution and all the faculty members without whom this project work would have been a distant reality.

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ABSTRACT

Scholarships and financial aids have always been provided to deserving and needy individuals of almost all streams and branches. These scholarships are well formed and can prove to be very lucrative for an aspiring student in need but many times these attempts to help go unnoticed because of loss of proper interaction and awareness. The Internet is the potential medium of spreading awareness and knowledge about these scholarships in an organized and structured manner. With the advent and availability of high-speed internet even in the remote areas students can easily search for scholarships by entering their details and therefore all the scholarships fitting the appropriate requirements can be acknowledged and then the student can apply for it. The credentials entered will be secured confidentially in our system and hence providing security and safety to all aspirants.

CHAPTER 1

INTRODUCTION

1.1. About :

This project is developed for aspiring and needy students of various schools, colleges over the nation regarding different fields and departments. The Internet is a powerful tool that can be used to spread awareness amongst the multitude. Majority of students are not aware of various scholarship schemes available to them. Spreading general awareness and providing convenient methodologies to each and every aspirant for availing their rights through scholarships and fee waiver. Applications can be shortlisted by an authorized person on the basis of various criteria with regard to the family income, caste, merit, gender etc. All the data will be provided by students and thus can be later verified.

Students can compare and then wisely select the domain they want to apply for. All the scholarships issued by the state government, central government or esteemed private organizations will be kept up to date as per the requirement will all specifications and details. It will be an inducement to improve the quality of the study and thereby attaining high standards.

1.2. Motivation :

The project “Scholarship Information Portal” is a software package developed for managing students scholarship details, branch details, and college details. The software is very helpful to find the appropriate scholarships from different colleges. The project finds the eligible benefits in the form of scholarships, students can avail on the basis of marks, caste, sports, gender, and income.

1.3. Objectives :

Goal or aim of our project is to spread awareness about scholarships provided by a government organization for deserving and unprivileged students. Students can upload various educational and economic details to search for scholarships.

1.4. Features :

1. Through the system, we can easily maintain the data without any loss or damage.
2. By using this system time consumption will be reduced.
3. By using this website students can easily know about the information of scholarship details.
4. On the basis of details submitted applicable scholarships can be displayed.
5. Admin monitors group activities and updating existing scholarships also the addition of upcoming ones.
6. Scholarship Officer maintains each and every student details.
7. Scholarship Officer sends mail to eligible students about the scholarship.

CHAPTER 2

LITERATURE

2.1. About :

Literature of the project is associated with System analysis and it is an important part that is to be taken into consideration when we want to build a new system. In this phase, the problems in the existing system are thoroughly studied and the new system is proposed which rectifies the errors persisted in the current system. The problems are analyzed from a different point of view.

The analysis is the final stage before starting the designing of a project and hence, all the required modification should be done at this stage. Then the specification to meet the proposed system is to be produced after the analysis stage that the project persons will use it for further.System Analysis then is the process of gathering and interpreting facts, diagnosing problems and using the information to recommend improvements to the system. Before the development of any project can be pursued, a systematic study is conducted to learn the details of the current business situation. Information gathered through the study, forms the basis for creating alternative design strategies. Management selects the strategy to pursue.

System Analysis is about understanding situations. The effective analysis includes investigation and questioning to learn how a system operates and to identify the requirements for a new or modified one. For the development of any good project, proper analysis of the existing system is a prerequisite. Therefore, a detailed analysis of the existing system should be conducted. For this purpose, the system should be broken down into various subsystems and these subsystems were analyzed closely to identify the problem areas.

2.2. Existing System :

At present we have a Government Owned Scholarship portal which contains a huge amount of data, Where all the information regarding any of the Scholarship are kept at the same DATABASE which may lead to the dilemma which scholarship is actually meant for the students to apply which is a highly time-consuming process, involves a lot of works. The analysis part includes a detailed study of the problems we faced during accessing this portal.

Limitations :

1.Time delay
2.Redundancy
3.Accuracy
4.Information Retrieval
5.Same Storage Media

All these are rectified in the proposed system. and help the student to apply for the correct one.

2.3. Proposed System :

The proposed portal is developed using MySQL as back end and HTML, CSS, JSP as a front end for the needy one, who want to know scholarship details.

In brief, the proposed system will be as follows:

The details about the scholarship information’s are showed.A set of user screens will be provided for data entries and these data will be effectively stored in back end tables. Records can be retrieved when needed.Relevant details pertaining to students willing to know his details can do so by accessing by the user.

2.4. Scope :

The scope of the project is that it can be used by any Student of any field all over the nation. Anyone having internet connection can access the portal via filling registration form operations as per the requirement.

2.5. Overall description :

In our application, we have two modules

1. Masters/Admin
2. Student

1. Masters/Admin: All scholarship information are maintained and functioned by the admin.admin can access and modify the data as per government schemes changes.

2. Student: This page stores the information about all the students like a stream, state, mail id and address etc. Using this information the admin can manage the students and filter out scholarships for them.

Scholarships : This page stores the information about all the types of scholarships. By this page the Scholarship Officer can directly add the scholarships, edit the scholarships, send the scholarships to eligible students.

Student : This module deals with the issue of scholarship to the students. It stores all the functionalities regarding the scholarship which student wants to know.

Functionality : Scholarship: This page stores the information about the scholarship. By this page, the student can view the scholarship details and as per his choice.

Feedback : By this page student can send the feedback to admin and view the reply which is sent by the scholarship officer.

CHAPTER 3

REQUIREMENT ANALYSIS

3.1. System Requirement Specification :

System requirement give an idea about what are the necessary things that are needed for the proposed system, which plays a very important role in the development of any system. This chapter deals with what are hardware components that are needed for the system, application, software that is required for the development of the system and the functional requirement of the system. Frontend tools helps to visualize the system, while backend helps in activities which are not visible to the end user.

3.1.1. Modules :

This project consists of 2 modules

1. Masters/Admin
2. Student

Admin module :

Functionalities:

1.Manage students details.

2.Manage scholarships details.

3.Add Scholarships and update them .

4.Update Profile.

5.Add Scholarship details and set the criteria for scholarship.

6.View all students who are fulfilling the scholarship requirement.

7.Send scholarship details or alerts to the eligible students.

8.View feedback and send response to the student.

Student Module :

3.1.2. Functionalities :

1.The student details are given under this module.

2. View all scholarship details and eligibility criteria.

3.Upload scholarship documents.

4.View scholarship status.

5. Update profile.

6.Send feedback.

7. View response for feedback.

3.2. Software Requirements :

OPERATING SYSTEM : Windows/Linux/MacOs

ENVIRONMENT : Eclipse IDE

PROGRAMMING LANGUAGE : Java

WEB TECHNOLOGY :HTML , CSS , JSP

BACKEND : MySQL SERVER 2008

3.3. Hardware Requirements:

PROCESSOR : Intel Pentium 4 or more

RAM : 1 GB or more

HARD DISK : 40 GB hard disk recommended for Primary Partition

KEYBOARD : STANDARD 102 KEYS

MOUSE : 3 BUTTONS

CD DRIVE : LG 52X

FLOPPY DRIVE : 1.44 MB

MONITOR : 15” COLOR

3.4. Functional Requirements :

3.4.1. Input/output :

Admin is required to log into the application using his id and password and then he/she is allowed to add, update or delete scholarships. A new user can simply view the scholarships and if he wants to see the eligibility that suits him he can register will all the required details. The admin is also allowed to manage students account and inform him about the scholarships.

3.4.2. Storage Requirements :

All the details of Scholarships, students are stored in the database and the data can be updated through the database (internet).

3.5. Non Functional Requirements :

Usability :

The system is designed with a completely automated process. Hence there is no or less intervention.

Reliability and Security :

The system is more reliable because of the qualities that are inherited from the chosen platform Dot net. And it provides secure access of confidential data with unique id and password.

Supportability :

The system is designed to be the cross-platform supportable.The system is supported on a wide range of hardware and software platform.

CHAPTER 4

DESIGN

4.1. Introduction :

Systems design is the process Of defining the architecture, components, modules, interfaces, and data for a system to satisfy specified requirements. One could see it as the application of systems theory to product development. There is some overlap and synergy with the disciplines of systems analysis, systems architecture and systems engineering.

4.2. System Design :

4.2.1. Input Design :

The input design is the process of converting the user-oriented inputs in to the computer based format. The goal of designing input data is to make the automation as easy and free from errors as possible. For providing a good input design for the application easy data input and selection features are adopted. The input design requirements such as user friendliness, consistent format and interactive dialogue for giving the right message and help for the user at right time are also considered for the development of the project.

The following points should consider while designing the input;

1. What data to input?
2. What medium to use?

How the data should be arranged or coded?
The dialogue to guide users in providing input Ø data items and transactions needing validation to detect errors .

Methods for performing input validation and steps to follow when errors occur.

In this project all the text boxes are validated. If any field is not filled then it will display the error message . The dialogue boxes are used to guide the user while giving inputs. The list boxes are used to reduce the user inputs.

The user will select one of the items in list boxes. Radio buttons are used to select the options. The following design guidelines will result in a friendly and efficient interface.

Minimize the number of input actions required from user. This can be accomplished by using the mouse to select from predefined set of inputs. In application the user can select the options by using the mouse. The user is allowed to choose priority, mode of transport using predefined set of Scholarship portal.Maintain consistency between information display and data input. The visual characteristics of the display (e.g. text size, color etc) should be carried over to the input domain. In this project the status information are represented by different colors. Allow the user to customize input. An expert user might decide to create customer commands or dispense with some types of warning messages and action verification.

4.2.2. Output Design :

When designing output, systems analyst must accomplish the following. Determine what information to present, decide whether to display, print the information, select the output medium, arrange the presentation of information in an acceptable format, and decide how to distribute the output to intended recipient. Accomplishing the general activities listed above will require specific decisions, such as whether to use preprinted forms when preparing reports and documents. How many line to plan on printed page, or whether to user graphics and color. The output design is specified on layout forms, sheets that describe the location characteristics (such as length and type), and format of the column headings and pagination. As we indicated at the beginning of this discussion, these elements are analogous to an architect blueprint that shows the location of each component.

4.3. ER DIAGRAM

An entity–relationship model (ER model for short) describes interrelated things of interest in a specific domain of knowledge. A basic ER model is composed of entity types (which classify the things of interest) and specifies relationships that can exist between entities (instances of those entity types). In software engineering, an ER model is commonly formed to represent things a business needs to remember in order to perform business processes. Consequently, the ER model becomes an abstract data model, that defines a data or information structure which can be implemented in a database, typically a relational database.

Entities are represented by means of rectangles. Rectangles are named with the entity set they represent.

Attributes are the properties of entities. Attributes are represented by means of ellipses. Every ellipse represents one attribute and is directly connected to its entity (rectangle).

If the attributes are composite, they are further divided in a tree like structure. Every node is then connected to its attribute. That is, composite attributes are represented by ellipses that are connected with an ellipse. Multivalued attributes are depicted by double ellipse. Derived attributes are depicted by dashed ellipse.

Relationships are represented by diamond-shaped box. Name of the relationship is written inside the diamond-box. All the entities (rectangles) participating in a relationship, are connected to it by a line.

Here, there are four different entities : Admin, Student, Scholarship, and Feedback. The attributes and relationship among these entities is shown below in the figure.

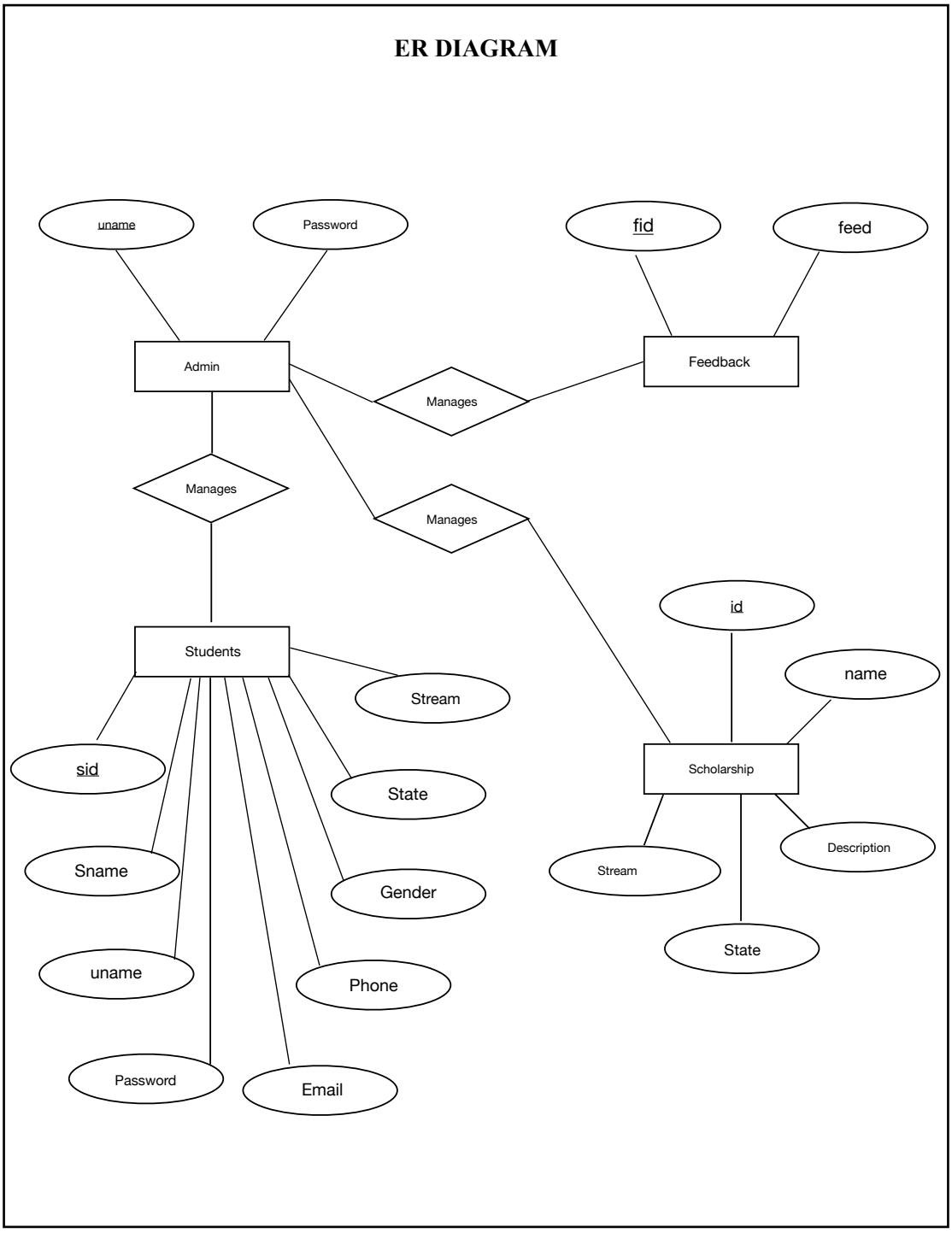

Fig. 01 : ER diagram

4.4. USE CASE DIAGRAM

A use case diagram is a dynamic or behavior diagram in UML. Use case diagrams model the functionality of a system using actors and use cases. Use cases are a set of actions, services, and functions that the system needs to perform.

Here there are two actors : Admin and Students.

Admin is an authorized person who need to login into a valid account that will be verified by the system and then admin is allowed to handle various activities related to manipulation of all scholarships like update scholarship , add scholarship , delete scholarship , manage students and view feedback. This is well indicated in the use case diagram below.

A student is a young aspirant who wishes to avail these aids or benefits provided by government authorities of state and also by the central government. A student for accessing information ought to enter valid and right details while registering and once registered can access the portal by entering the username and password. So, a student have following functionalities such as registration , login , view scholarships , provide feedback which are well displayed and illustrated with the help of use case diagram below.

Use case diagram for Scholarship Portal :

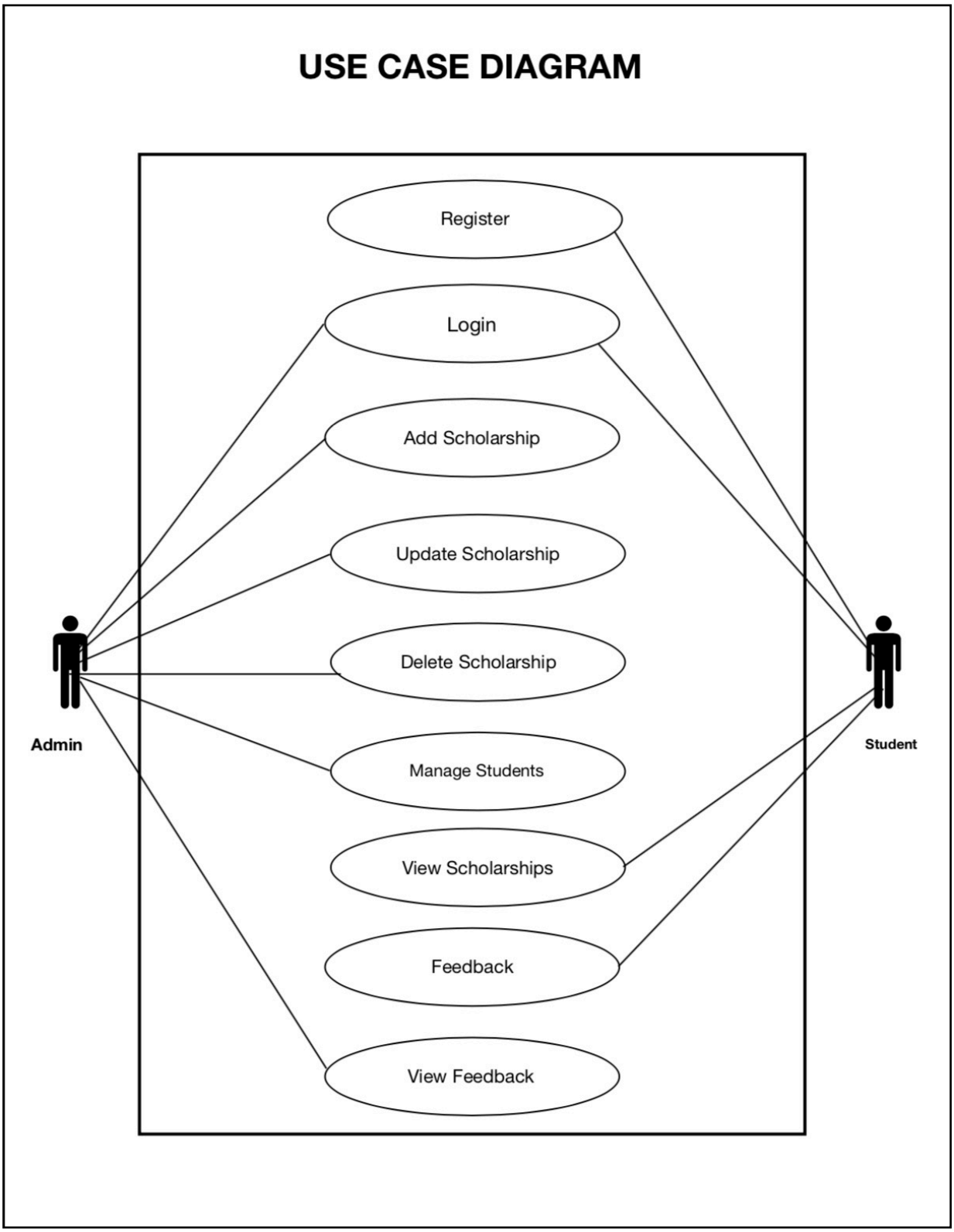

Fig. 02 : Use Case Diagram

4.5. FLOWCHART DIAGRAM

A flowchart is a diagram that depicts a process, system or computer algorithm. They are widely used in multiple fields to document, study, plan, improve and communicate often complex processes in clear, easy-to-understand diagrams. Flowcharts, sometimes spelled as flow charts, use rectangles, ovals, diamonds and potentially numerous other shapes to define the type of step, along with connecting arrows to define flow and sequence. They can range from simple, hand-drawn charts to comprehensive computer-drawn diagrams depicting multiple steps and routes. If we consider all the various forms of flowcharts, they are one of the most common diagrams on the planet, used by both technical and non-technical people in numerous fields. Flowcharts are sometimes called by more specialized names such as Process Flowchart, Process Map, Functional Flowchart, Business Process Mapping, Business Process Modeling and Notation (BPMN), or Process Flow Diagram (PFD). They are related to other popular diagrams, such as Data Flow Diagrams (DFDs) and Unified Modeling Language (UML) Activity Diagrams.

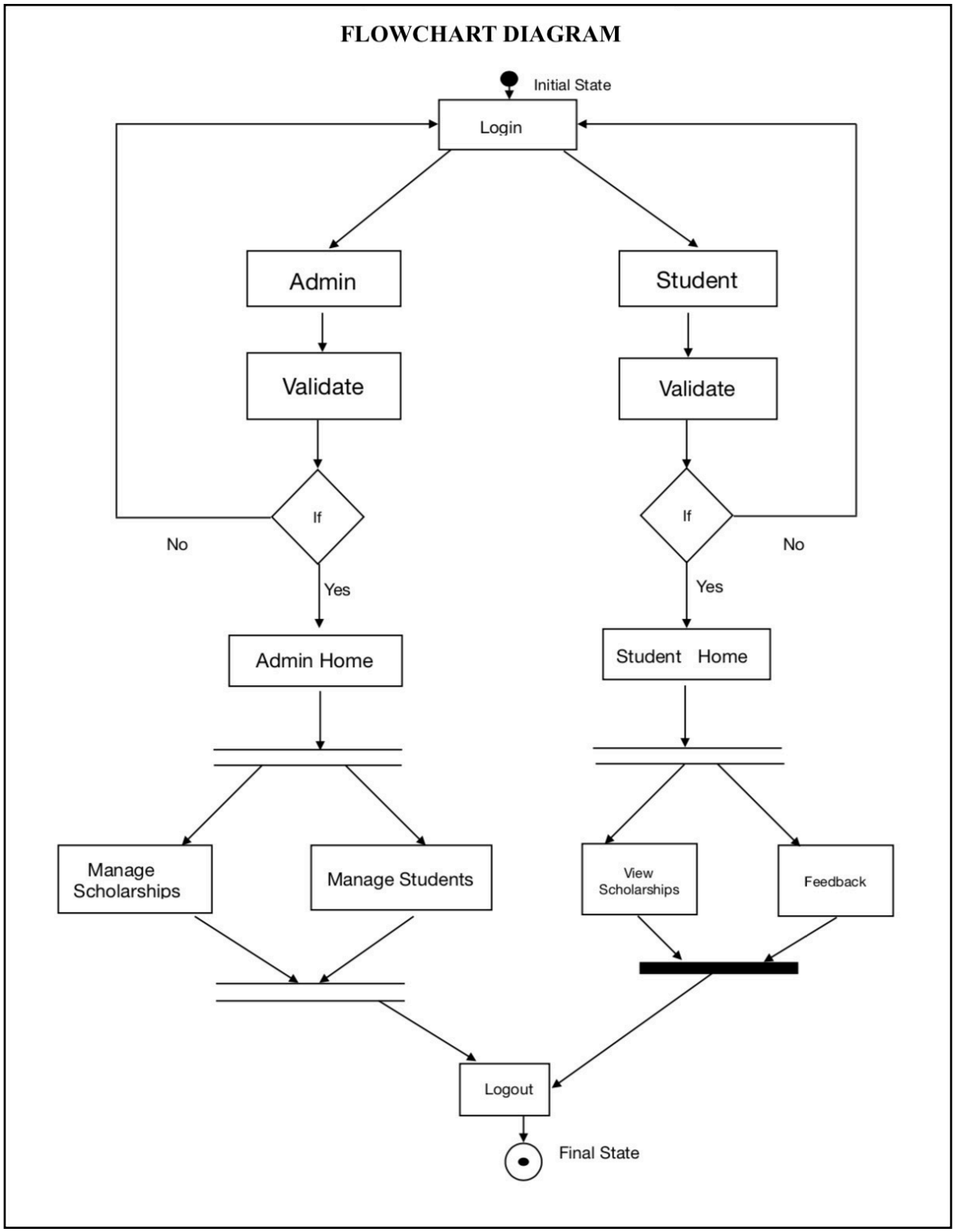

Fig. 03 : Flowchart Diagram

4.6. DEPLOYMENT DIAGRAM

A deployment diagram is a UML diagram type that shows the execution architecture of a system, including nodes such as hardware or software execution environments, and the middleware connecting them. Deployment diagrams are typically used to visualize the physical hardware and software of a system.

Deployment diagrams are useful for system engineers. An efficient deployment diagram is very important as it controls the following parameters −

1.Performance

2.Scalability

3.Maintainability

4.Portability

We have identified the nodes and the relationship that these nodes share.
Nodes of our system are - Modem 1 , Modem 2 , Modem 3 , Internet servers(2) , Web Hosting Servers (IIS) , Development Tools and Applications that provide the required services.

The relationship amongst these above specified nodes has been displayed and well illustrated with the help of Deployment Diagram shown below.

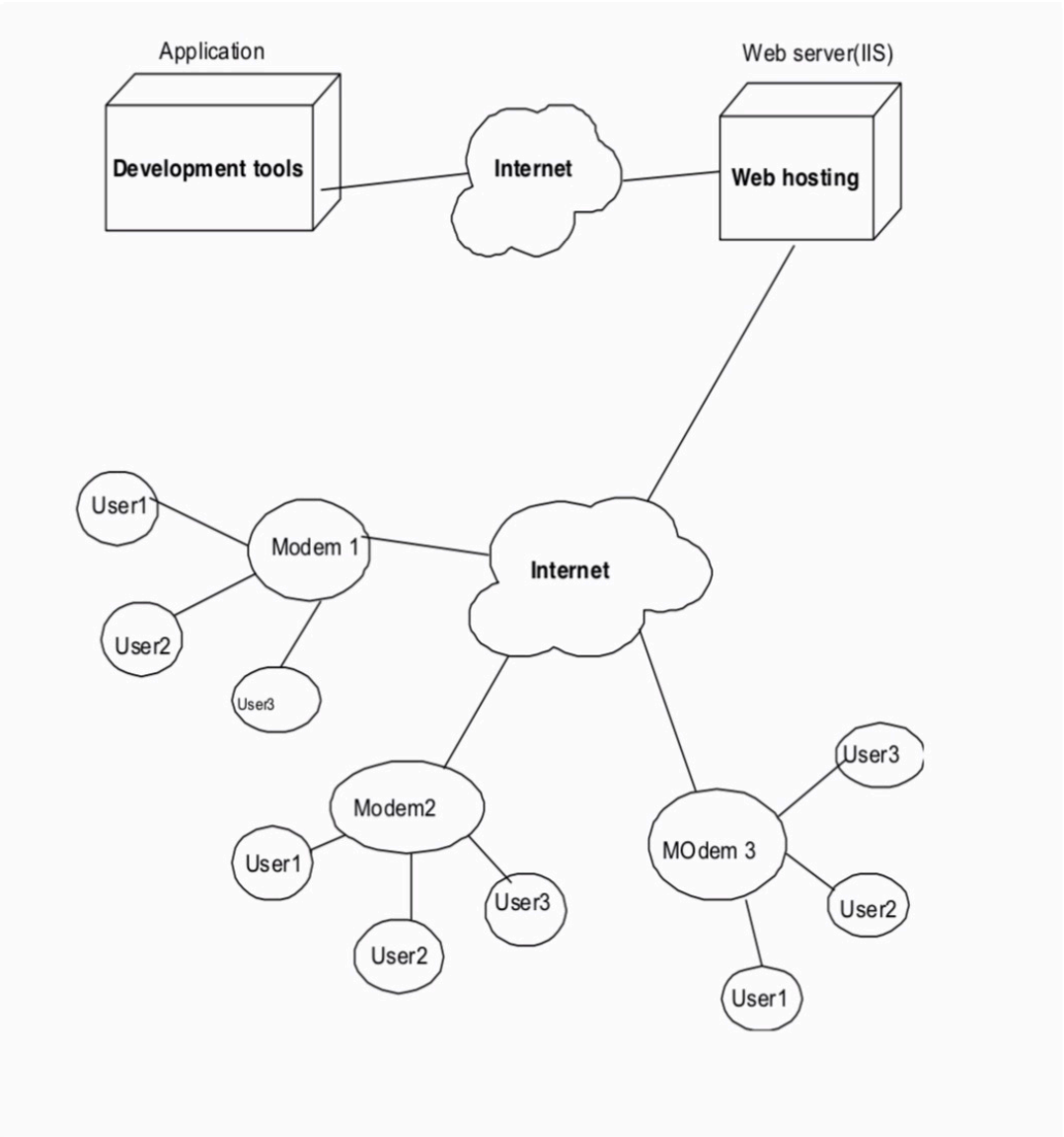

Fig. 04 : Deployment Diagram

4.7. SEQUENCE DIAGRAM

A sequence diagram describes an interaction among a set of objects participated in a collaboration (or scenario), arranged in a chronological order; it shows the objects participating in the interaction by their "lifelines" and the messages that they send to each other.

This documentation contains two sequence diagrams one as per the admin's perspective and another for the user's perspective.

Lifeline :

A lifeline represents an individual participant in the Interaction.

Actor :

An Actor a type of role played by an entity that interacts with the subject.

Activation :

An activation is represented by a thin rectangle on a lifeline) represents the period during which an element is performing an operation.

4.7.1. Sequence Diagram For Admin :

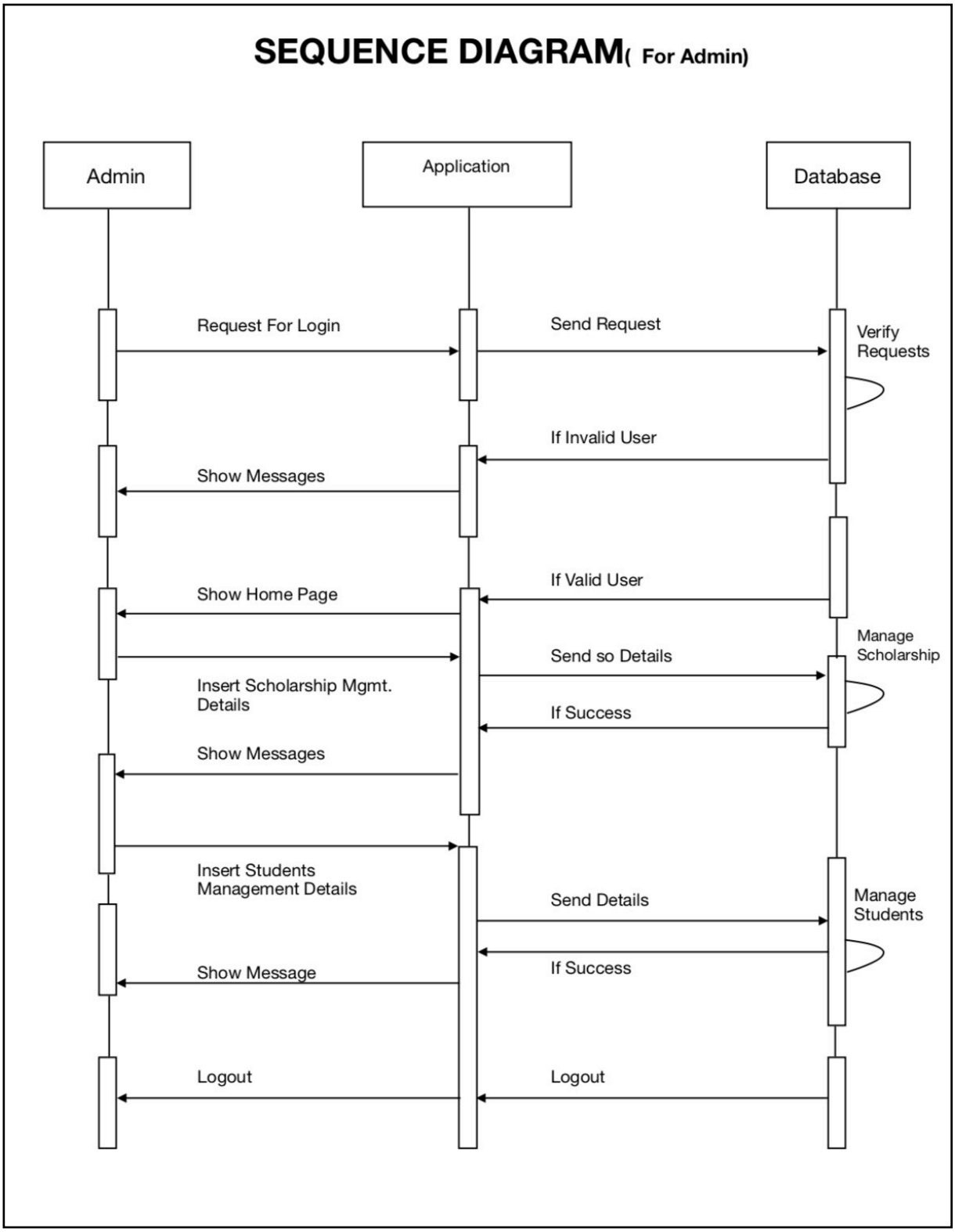

Fig. 05 : Sequence Diagram for Admin

4.7.2. Sequence Diagram For Students :

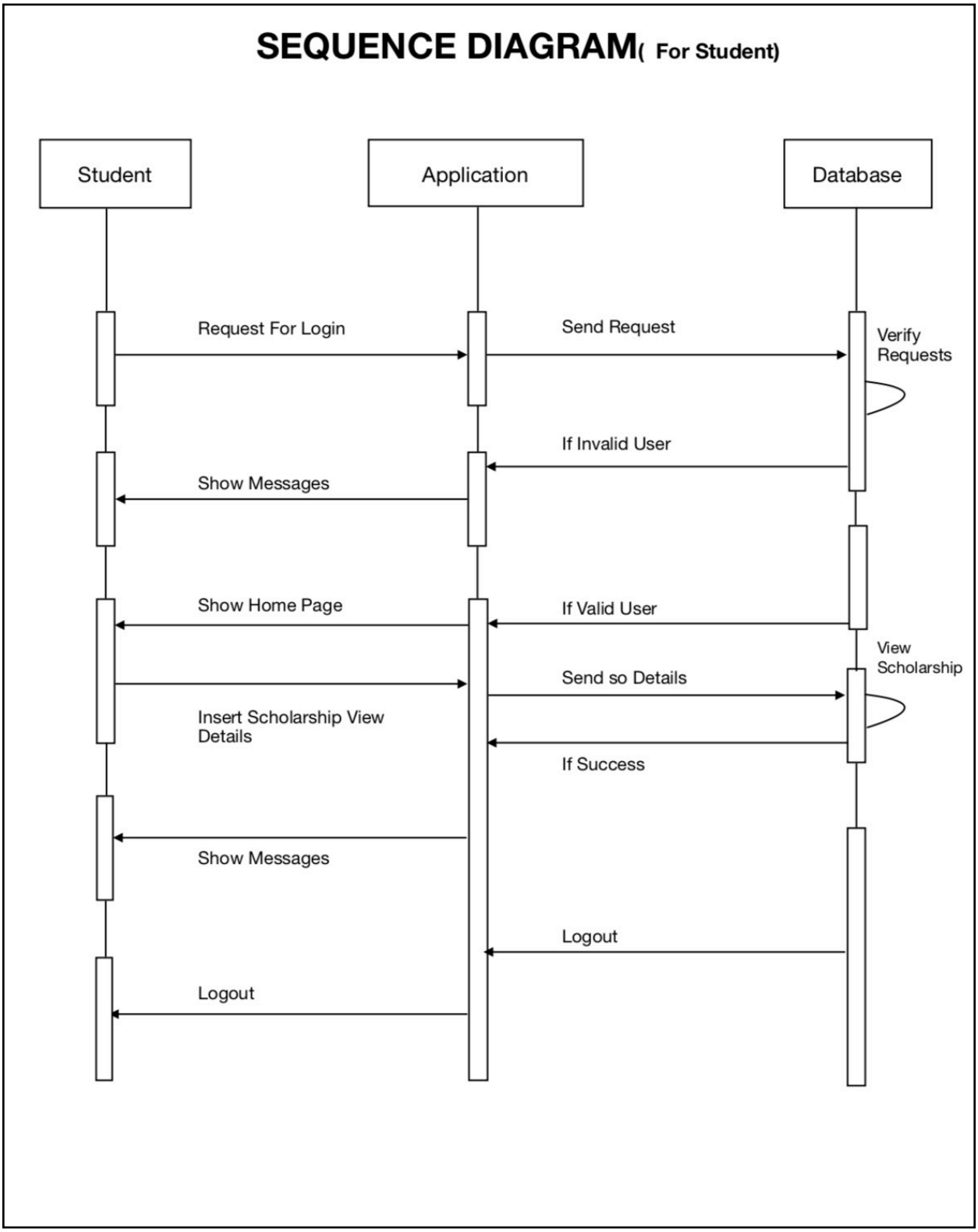

Fig. 06 : Sequence Diagram for Students

CHAPTER 5

IMPLEMENTATION

5.1. Introduction :

To provide flexibility to the users, the interfaces have been developed that are accessible through a browser. The GUI'S at the top level have been categorized as :

1. Administrative user interface
2. The operational or generic user interface

The 'administrative user interface' concentrates on the consistent information that is practically, part of the organizational activities and which needs proper authentication for the data collection. These interfaces help the administrators with all the transactional states like Data insertion, Data deletion and Data updation along with the extensive data search capabilities.

The 'operational or generic user interface' helps the end users of the system in transactions through the existing data and required services. The operational user interface also helps the ordinary users in managing their own information in a customized manner as per the included flexibilities.

5.2. Database Information

A single database can house hundreds of tables, each playing its own unique role in the database schema.

SQL tables are comprised of table rows and columns. Table columns are responsible for storing many different types of data, including numbers, texts, dates, and even files.

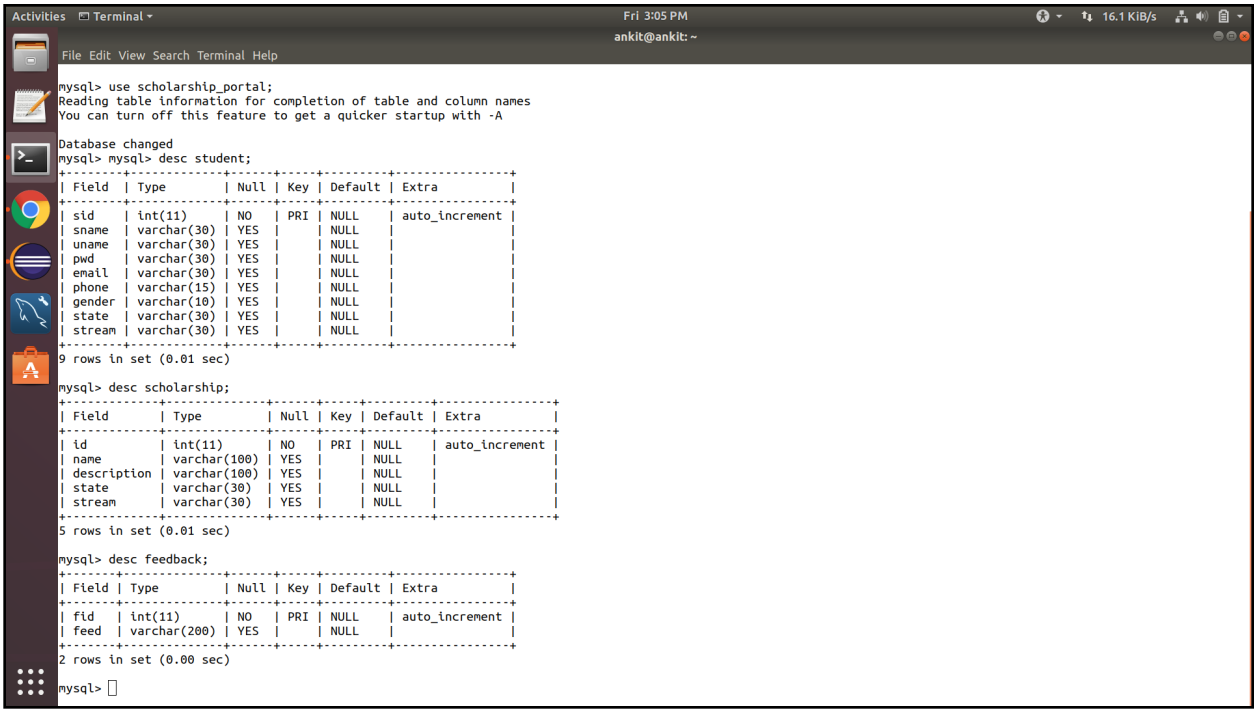

Fig. 07 : Database Information

The Project mainly contains of three tables in which it holds up certain columns along with their respective datatypes:

1. **Student Table:** sid, sname, uname, pwd, email, phone , gender , state, stream.
2. **Scholarship Table:** id, name, description, state, stream.
3. **Feedback Table:** fid, feed.

5.3. Login Page

In computer security, logging in is the process by which an individual gains access to a computer system by identifying and authenticating themselves. The user credentials are typically some form of "username" and a matching “password", and these credentials themselves are sometimes referred to as a login, (or a logon or a sign-in or a sign-on).In practice, modern secure systems also often require a second factor for extra security.

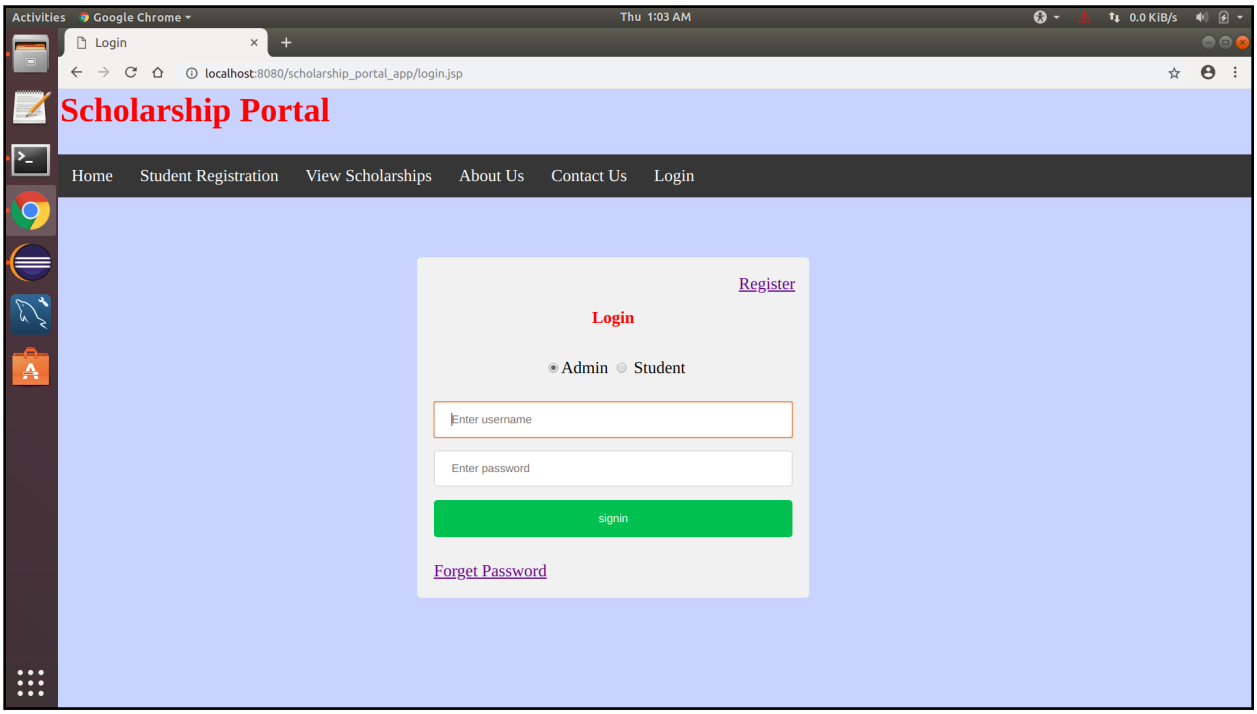

Fig. 08 : Login Page

Here we have designed two login pages separately for the admin as well as student.The admin can able to add scholarship, update scholarship, delete scholarship, manage students as well as view feedback by logging into it.

The student can only able to view scholarship and add feedback by login into the portal.

5.4. Add Scholarship Page

In the add Scholarship page, admin can add the scholarships as per the updations are made in the government owned portal, as we are collecting all data from that portal. Any Scholarship that is beneficial for the students can be added through this page. As per the requirements, the admin can update and delete the scholarships, if the government scheme changes.

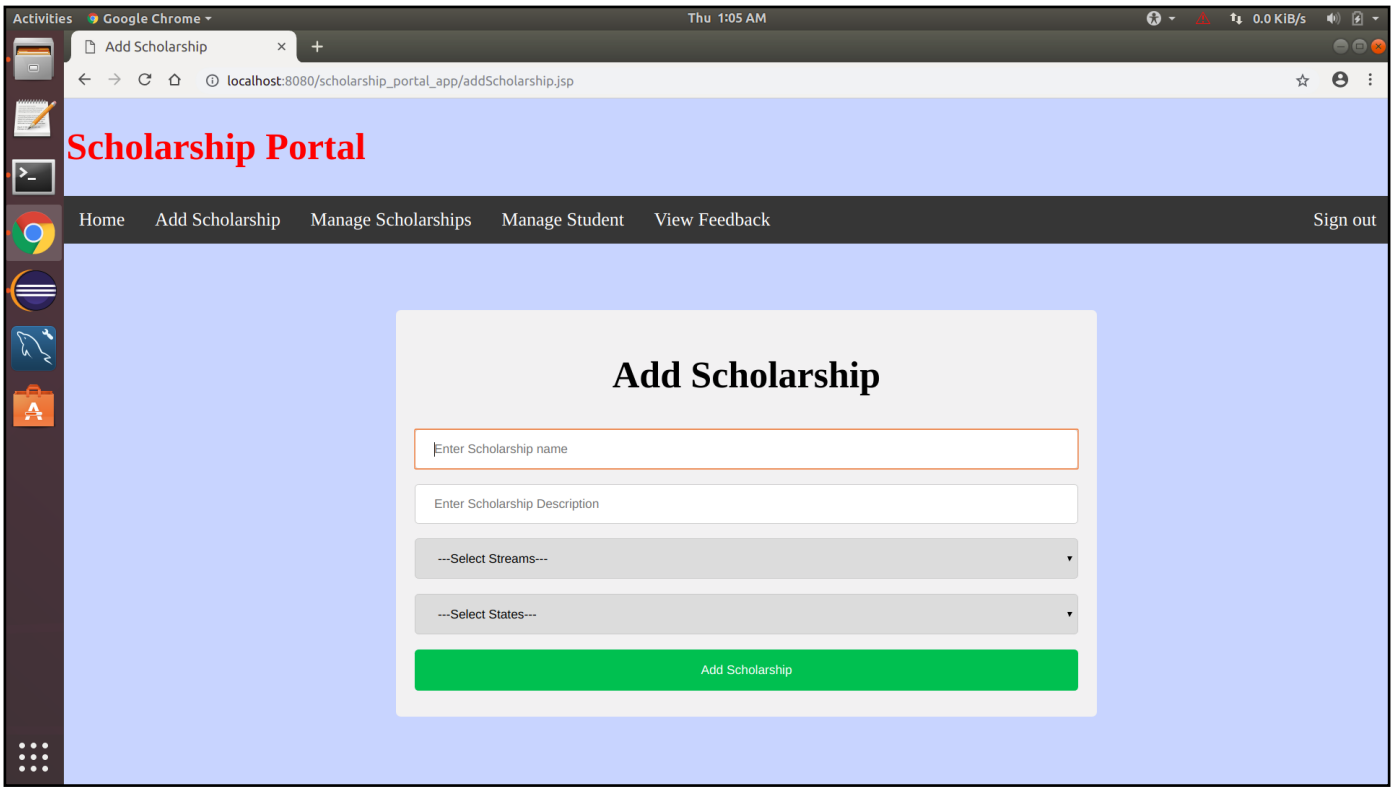

Fig. 09 : Add Scholarship Page

As admin can delete and update the scholarship ,various scholarships are get updated day to day life for the students welfares and need so as as per students required students get updated with new scholarship and that can be done by add scholarship page of which is functioned and maintained by admin

5.5. Manage Student Page

Manage Students is the feature, which is maintained and being handled by the admin. The Admin can manage students, and keep the records of the students. Admin can delete the students if needed. Admin has the central control over managing database as he is the actual controller of this portal.

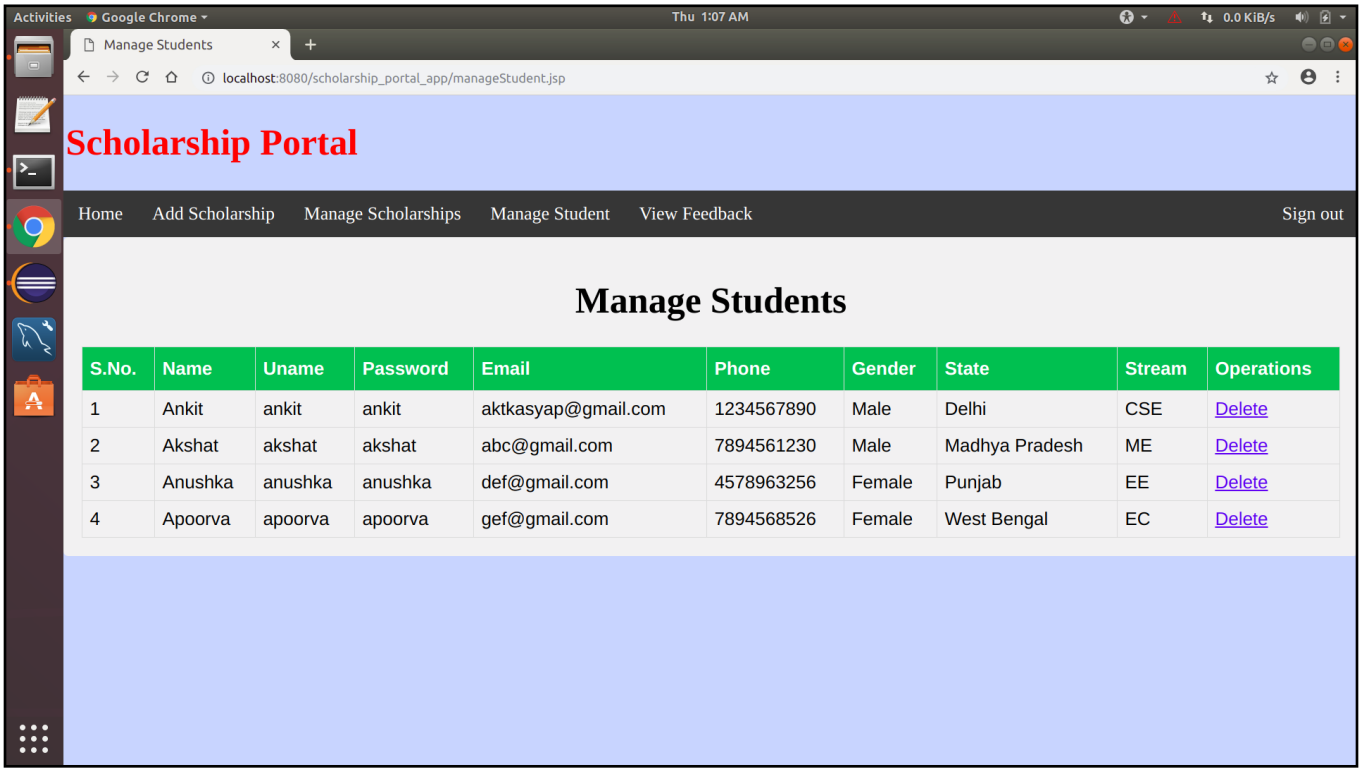

Fig. 10 : Manage Student Page

Management is required to keep the database in a consistent state. Admin plays a vital role in managing all the database. One of the managing parts in this scholarship portal is to maintain student database.

5.6. Give Feedback Page

The admin interact with his students through feedbacks. The students can contact with admin and ask his query and best possible solution for their problems. The students can comment too in this page.

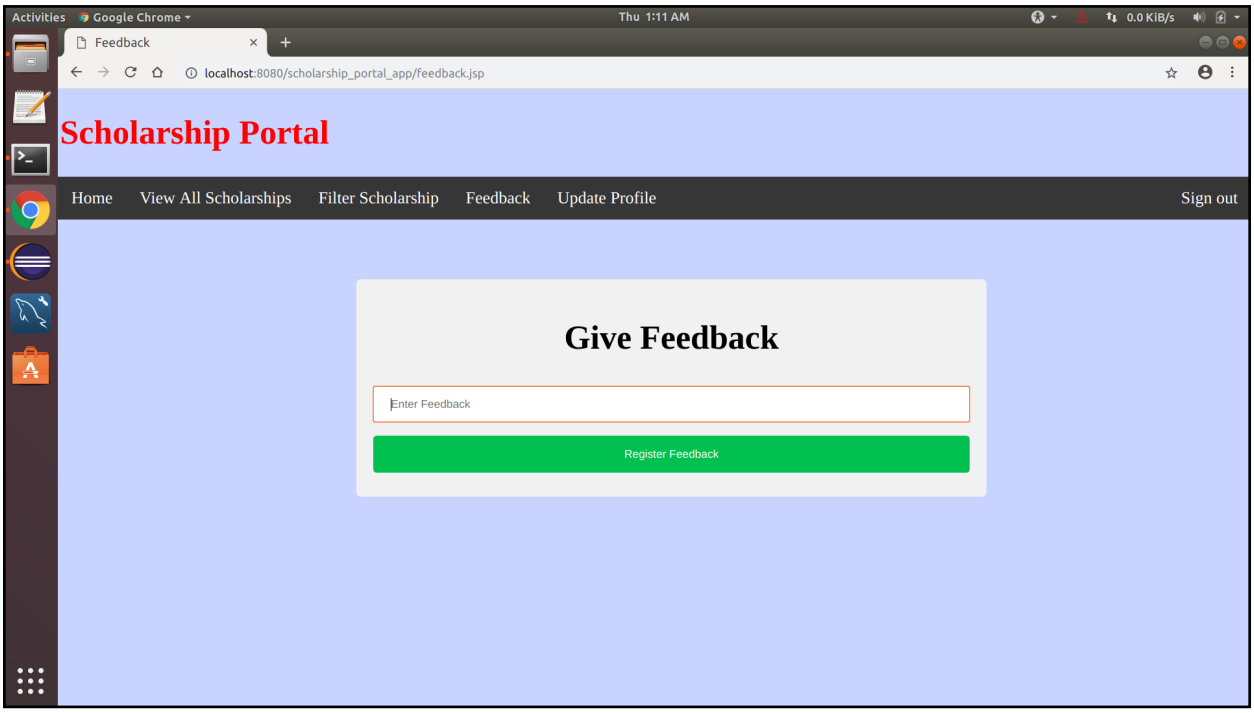

Fig. 11 : Give Feedback Page

If any student has any query regarding the scholarship or the portal, can easily use the option of feedback. It provides a platform for the students to give comments or ask anything about the scholarships.

5.7. Manage Feedback Page

Admin resolves the problem of students with their feedback and can manage it with the help of manage feedback page of the portal. Using this feature, the admin can also remove the feedbacks after resolving the problem.

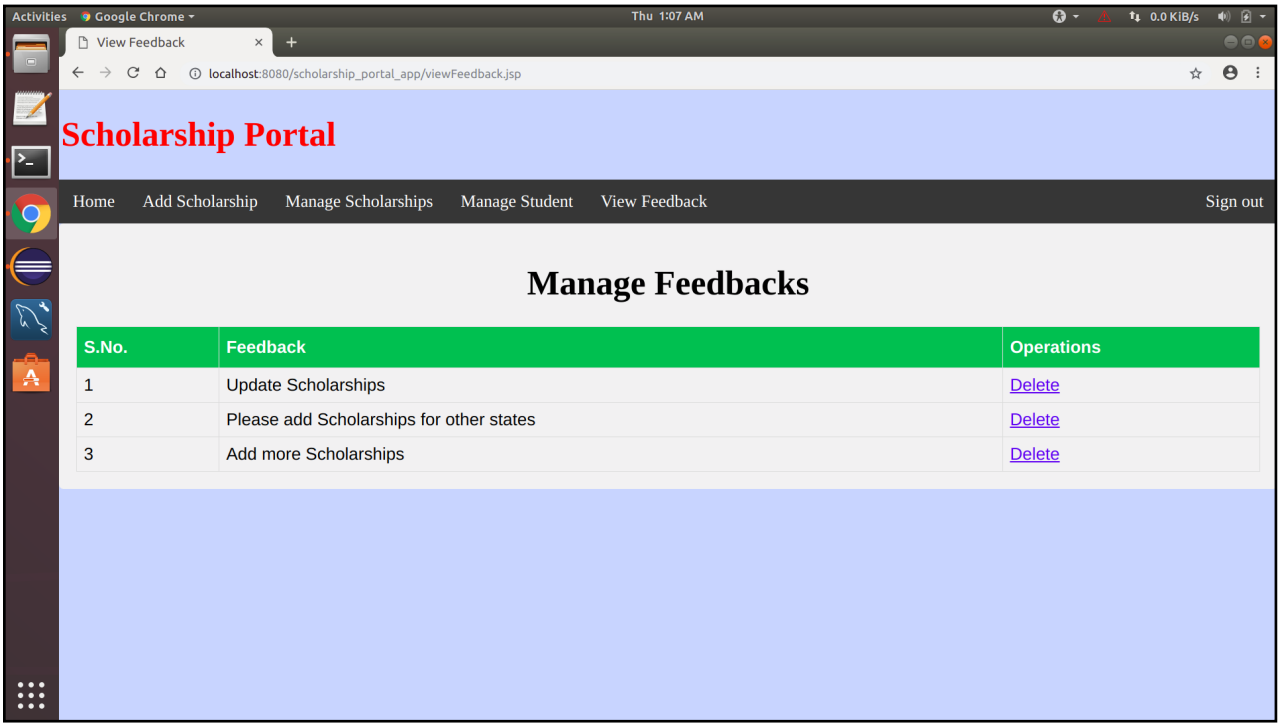

Fig. 12 : Manage Feedback Page

As feedback provides the interaction platform between student and admin. This can be managed by the admin and he solves the problems, queries and can view the comments provided by the students. The admin can get suggestions for the portal from the feedbacks and can change it as per student's need.

5.8. View Scholarship Page

In this section the students can easily find out the respective scholarships that they are searching for. The scholarship are classified by their name, description, state and stream. The scholarships are being updated by respective state government as well as central authority.

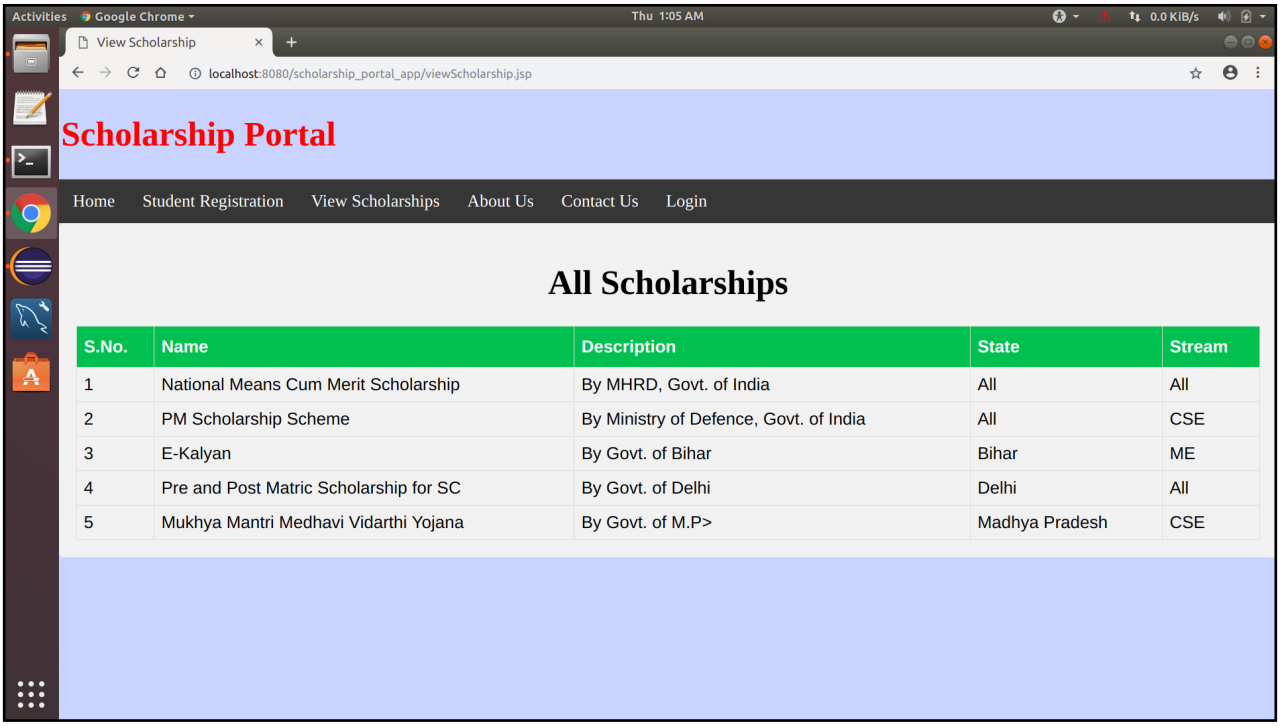

Fig. 13 : View Scholarship Page

In scholarship section, the student can also be notified time to time based on their state, and stream as the admin make any updations in the scholarship section.

Here the students can easily view the scholarships without uploading the documents in a simplified manner.

5.9. Manage Scholarship Page

The admin has the access to manage scholarships. The admin uploads the data on the database, and also updates scholarship data time to time and also deletes outdated data.

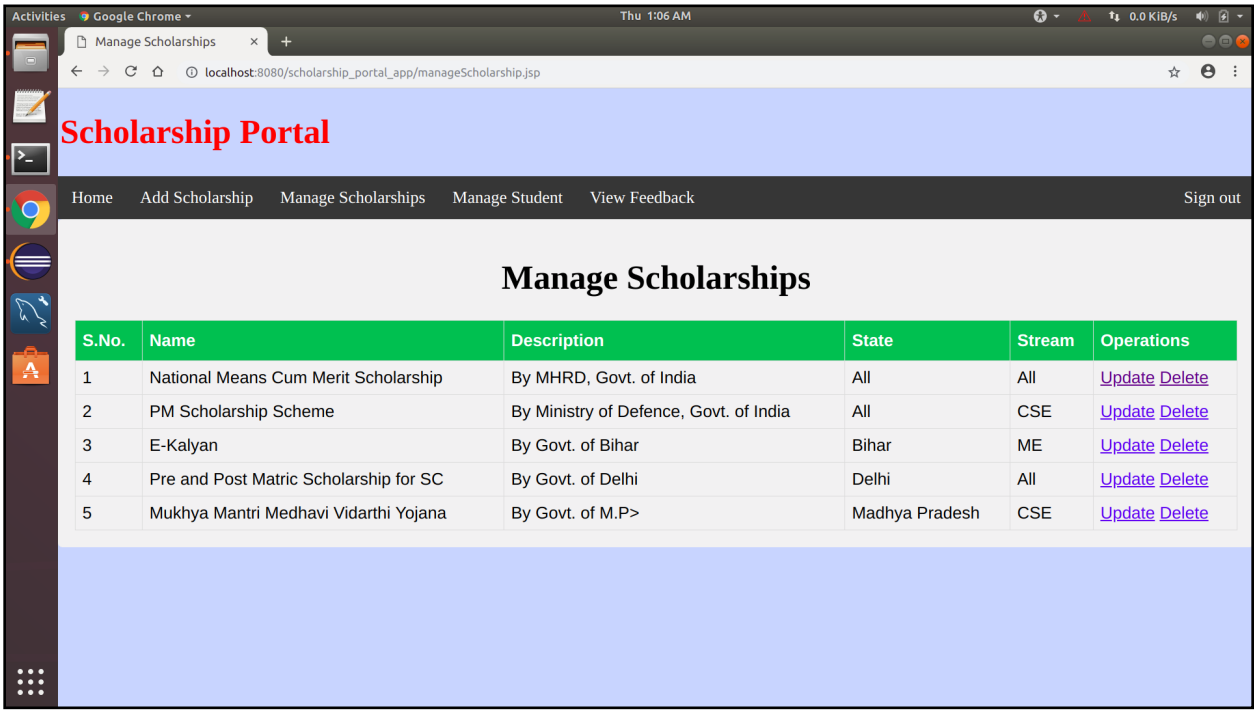

Fig. 14 : Manage Scholarship Page

In manage scholarship the admin has only access to add, update as well as delete the scholarship data which he takes up from state and central government portals.

5.10. Update Profile Page

Update profile option can help the student to update his/her profile. If he/she wants to make any changes in his/her profile then it can be done with the help of this page. Any registration time errors can be resolved by the students on this page.

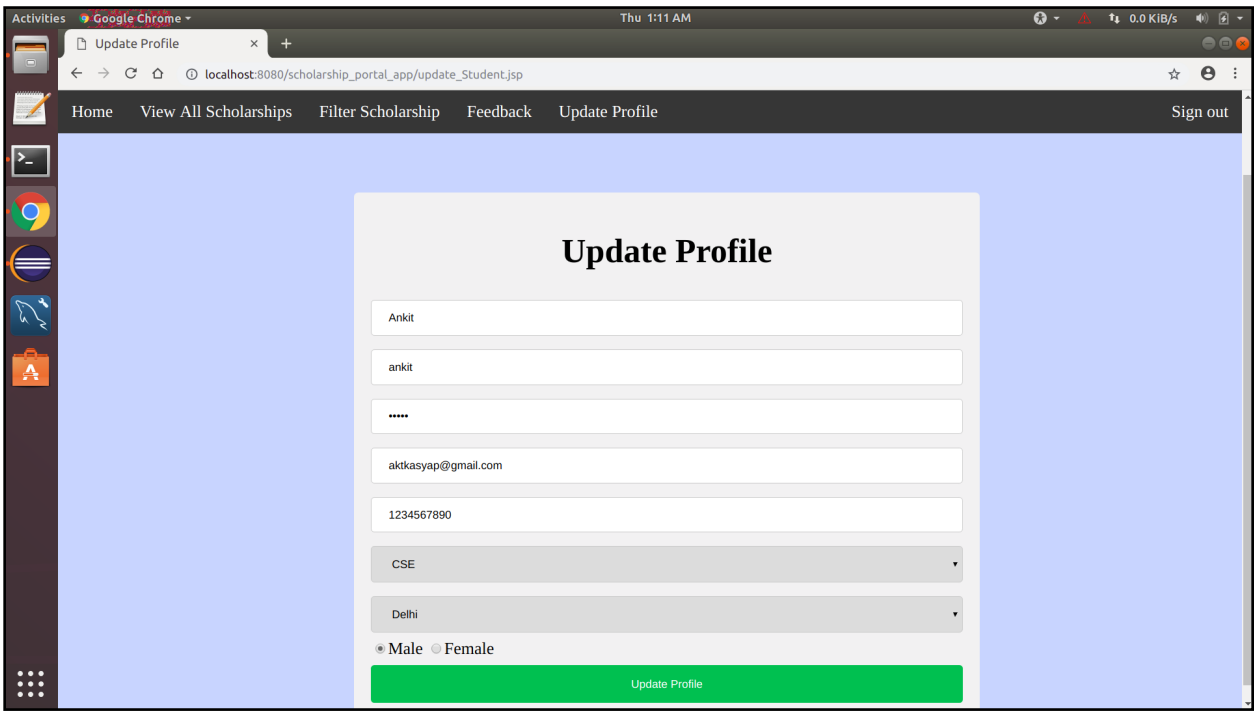

Fig. 15 : Update Profile Page

Update profile gives the flexibility to the students to change their profile. It is an easy and convenient way for the students, where they can easily update their profile and make direct updations in the database.

5.11. Forget Password Page

This page enables a student to recover his forgotten password. He/she has to provide his/her username on which a One Time Password (OTP) is sent for password recovery.

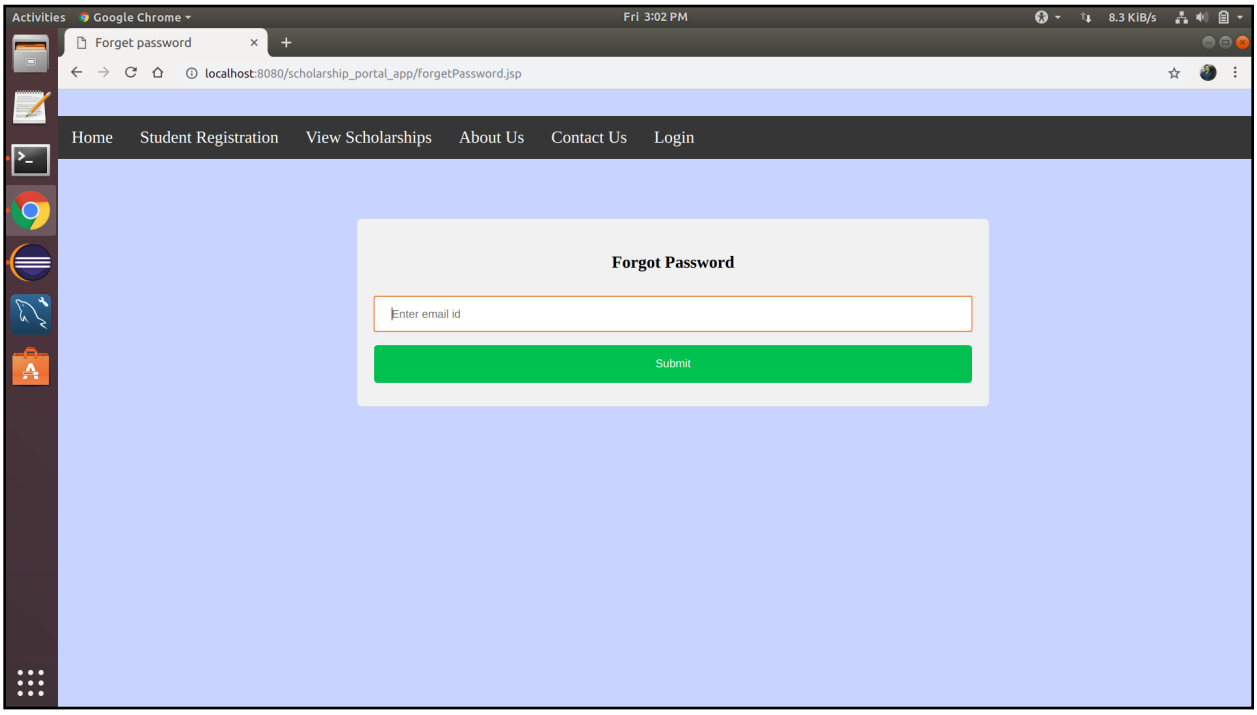

Fig. 16 : Forget Password Page

There is a client side validation in this page to validate the student's email-id. After the successful validation a OTP is sent to the respective email-id.

5.12. One Time Password (OTP) Page

This page enables the user to enter the OTP sent to their respective email-id to recover their password. Once they enter a valid OTP sent to the respective email-id, the user is able to reset his new password.

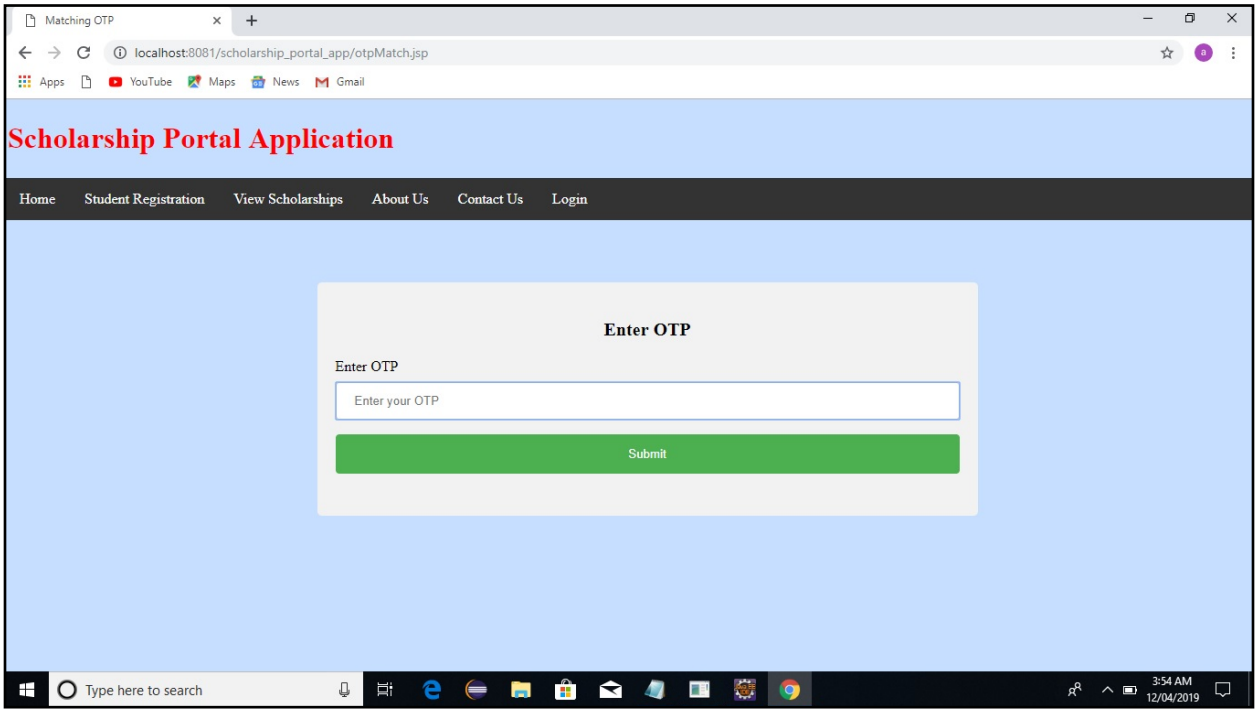

Fig. 17 : OTP Page

5.13. Reset Password Page

Once the user has entered the valid one time password(OTP) sent to his email-id, he is able to reset his password. The entered password will be directly updated in the database and it will be his/her new login password.

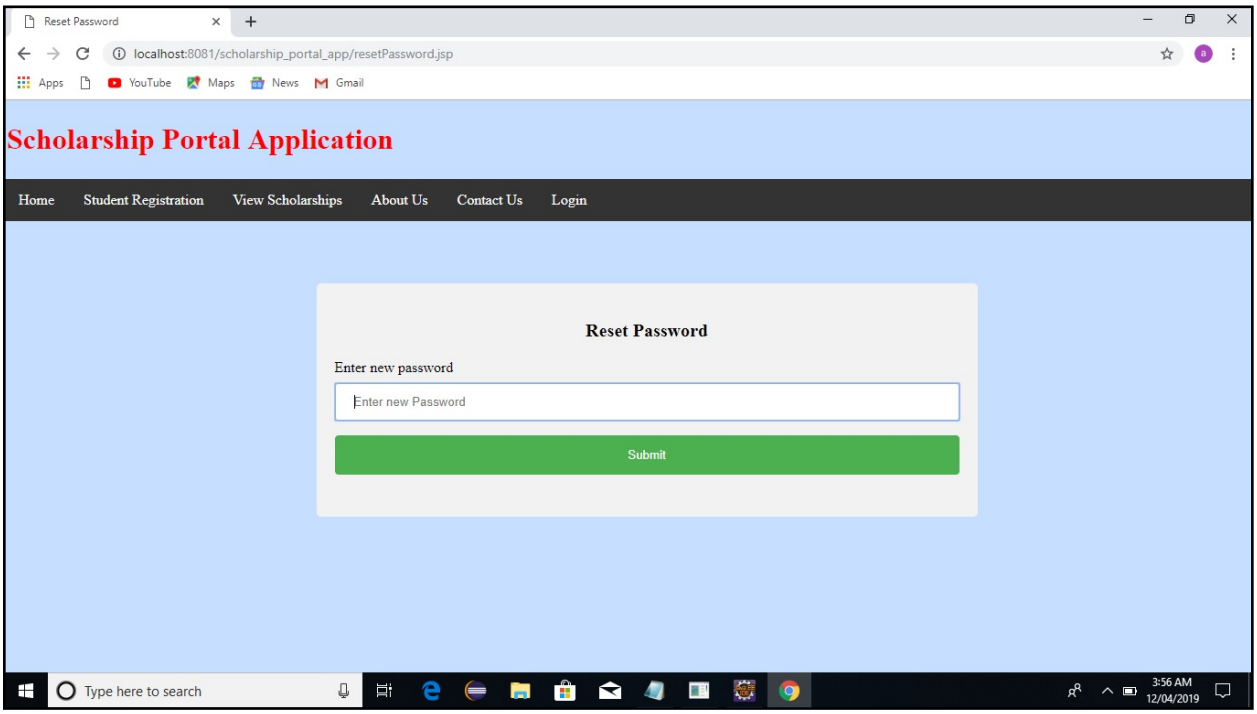

Fig. 18 : Reset Password Page

CHAPTER 6

RESULT

National Scholarships Portal is one-stop solution through which various services of students scholarship can be solved, as Government owned portal is highly time consuming to use and get the information.

Here in this portal student can easily get registered with email and password and with that email id and password he can further logged into the site and view and accept the scholarship. It is the easy and non time consuming process to be done, as filtering options is used student easily get the details of his/her needs with getting confusion here are the screenshot which actually shows the working and how result is going to display on the screen.

Once student registered he can logged into screen, once he does all the task, he can check various scholarship of his choice.Once the student get registered with above information can easily logged into the screen with id and password and can access the data.

Student can easily after logging it can view scholarships related to their field and can easily filled with their forms without being delay and dilemma.

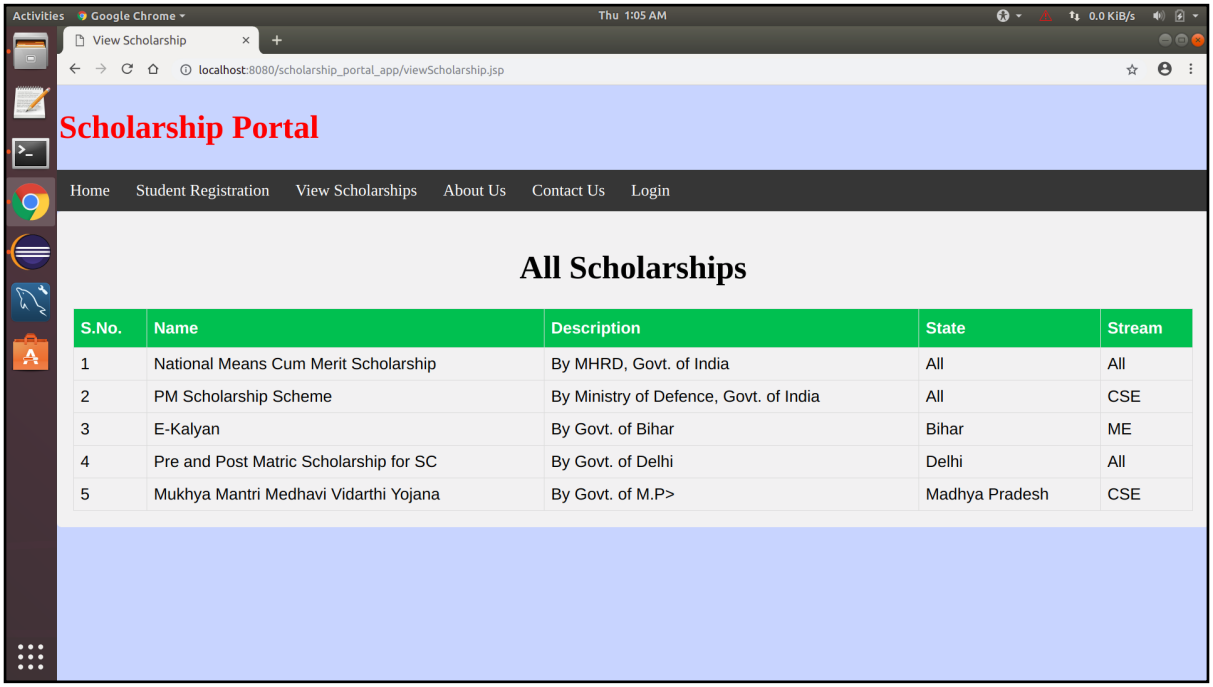

Fig. 19 : View Scholarship Page

Another resulting feature of this portal is the filter scholarship page. In this page students can filter out the best scholarships for them in a simplified Manner. It's a useful tool for students to get notified about scholarships which is actually for them.

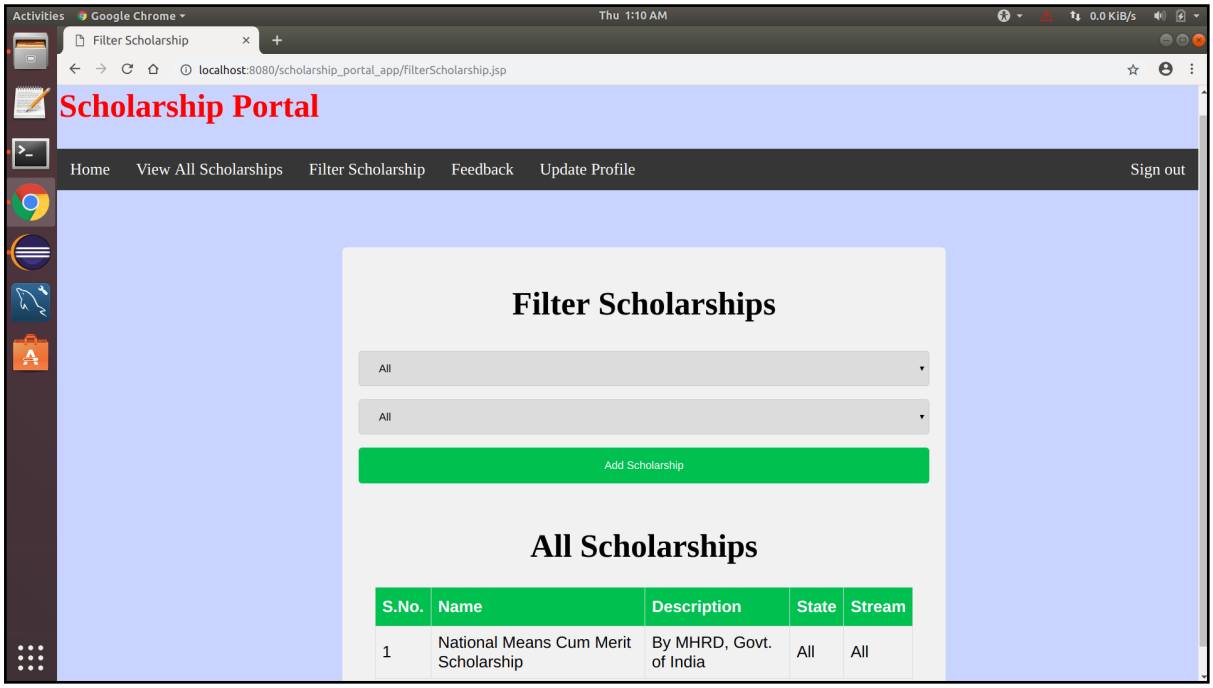

Fig. 20 : Filter Scholarship Page

CHAPTER 7

CONCLUSION

Apart from these facilities it also provides ease of data entry for the user. After successfully user testing it has been found that the new system has overcome most of the limitations of the existing system and works according to the design specification given. The developed systems dispense the problems and meets the need by providing reliable and comprehensive information. All the requirements projected by the user have been met by the system.

The newly developed system consumes less processing time and all the details are updated and processed immediately. Since the screen provides real time help messages and is very user friendly, any user can get familiarized.

CHAPTER 8

FUTURE WORK

With time and advancement , more branches and streams will become available to students of our nation. And hopefully many more students will register into our website to get proficient with existing scholarships. Students with poor economic background will also try to avail different courses and hence more scholarships will be added for their help.

Our future work includes making our website more efficient, robust, reliable and most importantly to make it easy for an individual to use and access it. Also we will make our website resilient so that not only a single admin but different authorized person or organizations who are interested for providing help to all those needy students can easily access and put forward their criteria , evaluation techniques for particular branches and streams.

We also aims towards making our portal a well communicated and informed as well an interactive platform where each eligible student can be informed about their well fitted match of scholarships. All students who wish to be notified about the upcoming scholarships and helps can provide us with their contact number(mobile or landline) or email id and choose which way they need to be contacted in .

In future if a student have doubts regarding the authenticity of help provided or has any security issues , he our she can post it online and can expect help from verified users, admin , other students as well the organization that is being enquired upon .

This way a well informed, well communicated portal can be developed where queries can be considered also posted and solved.

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