

Government Polytechnic, Pune-16

(An Autonomous Institute of Government of Maharashtra)



A Project Report On

“STUDENT-COLLEGE WEB PORTAL”

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(Academic Year: 2021-22)

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(An Autonomous Institute of Government of Maharashtra)

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CERTIFICATE

This is to certify that

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**Has successfully completed the Micro project / project work on
“Student/College Web Portal”.**

In a satisfactory manner as a partial fulfillment of requirement of the

**THIRD YEAR DIPLOMA IN
INFORMATION TECHNOLOGY
ACADEMIC YEAR 2021-22.**

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ABSTRACT

Student-college web portal is a software , application , which can only be used by students and faculties of Government Polytechnic Pune. This innovative system can be implemented by various schools, colleges, institutions. By using this we can create education system. It allows college faculty to share important data, upload notes and also delete notes, manage students & courses. It allows the students to register for exams, view exam form, download notes etc. It also includes a chatbot which can answer expected queries. Admin can also manage chatbot, this is the most important aspect of website.

This project is focusing on creating a chatbot to be used by students to get their queries responded easily from the college website. The College Enquiry Chatbot has the capacity to make friendly conversations, respond the course and faculty details based on the student's input, and give the timings, address, contacts, and events information of the department.

The main objective of this project is to keep students and faculties connected with each other at every time, any ware. This project aims to play an important role in student life.

Keywords: login, notes, chatbot, student, admin, exam

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Chapter 1 : INTRODUCTION

In today's world time is major concern .any product that can effectively reduce time and power consumption is accepted and appreciated. Thus, we are representing the student-college portal project that can reduce time by getting each necessary data and notes quickly and efficiently as well as student can easily able to do exam registration and using chatbot they can ask queries to teachers and response from teacher get to student very quickly.

Student-college web portal is a web application, which can only be used by students and faculties of Government Polytechnic Pune. But, this system is can be implemented by various schools, colleges and institutions.

We teachers can upload notes of different units and chapter depending upon students department and as per the requirement .The most important aspect of this system is exam registration system, student management system, managing chatbot, managing courses etc.

By using student -college web portal admin/ faculties can add new students to college, add new courses in courses , upload notes and also delete notes from a web portal. And admin can also manage chatbot, this is the most important aspect of website.

This project is focusing on creating a chatbot to be used by students to get their queries responded easily from the college website. The College Enquiry Chatbot has the capacity to make friendly conversations; respond the course and faculty details based on the student's input; and give the timings, address, contacts, and events information of the department.

The main objective of this project is to keep students and faculties connected with each other at every time, any ware. This project aims to play an important role in student life.

Chapter 2 : PROBLEM DEFINITION

2.1 Problem statement :

The existing system which we using in our college is traditional process is a complete manual process. Now-a-days, education is playing very significant role in the society. Day-by-day, the percentage of illiterates are decreasing and the percentage of literates is increasing. Education will change the society in all the aspects and everyone wants to study higher professional degrees.

Admissions are increasing day by day so there by ratio of establishment new colleges and schools are also increasing. But the actual challenge is starting from now. Most of the schools and colleges are maintain student information in records. When the number of records increased, it is difficult to maintain the information of each student in the old manual system.

Maintaining the records manually leads to error prone and required more man power and it consumes more time for processing the records.

As a large number of students in college can access college website on their laptop / computer , students can do exam registration by sitting at home, contact with faculties for any query, and student can also read notes uploaded by teachers. In the pandemic situation this project is useful for doing all the stuff online.

2.2 Problem Finding :

As the technology evolving day by day, technical solution for it was to get an application on our modules. So, that we can get access to college website without any problem. Basically college portal is an application which gave easy way for accessing and connecting to Government Polytechnic, Pune.

Chapter 3 : REQUIREMENT SPECIFICATION

3.1 Project Tools :

Front-end Tools :	HTML, CSS, javascript, bootstrap
Back-end Tools :	PHP
Database :	MYSQL

3.2 Software Requirements :

Application Frontend Tools :	Visual studio code
Database backed Tools :	MYSQL server (XAMPP)

3.3 Hardware Requirements :

Application Installation :	Visual studio code, Xampp
Internet Connection :	Required
Version :	5 and above
Memory :	130 MB

Chapter 4 : FEASIBILITY STUDY

A feasibility study is an evaluation of a proposal designed to determine the difficulty in carrying out a designated task. Generally a feasibility study precedes technical development and project implementation.

4.1 Economic Feasibility :

To develop the proposed system, it needs no extra facilities and devices. All dependencies are satisfied from the open source projects. All tools used are free, open source and the programming language is Android and hence its development is economically

4.2 Technical Feasibility

Proposed system is technically feasible because the proposed system requires only those H/W and S/W tools that are easily available. It requires VS code and Xampp and the application itself, which can be downloaded for free. More over expandability will be maintained in the new system. New modules can be added later on the application, if required in the future. Additionally, the application will have user friendly interfaces.

4.3 Behavioral Feasibility

Behavioral feasibility determines how much effort will go in the proposed system. Since the user interface is very simple and easily understandable, no training is required for using this software.

4.4 Operational Feasibility:

By feasibility study we mean study of the current operational systems and brief consideration of alternative methods computerizing these tasks. The purpose of the feasibility study is to investigate the present system, evaluate the possible application of computer-based methods, select a tentative system, evaluate the cost and effectiveness of the proposed system, evaluate the impact of the proposed system on existing personal and ascertain the need for new personal.

Chapter 5 : SYSTEM DESIGN

5.1 Architecture

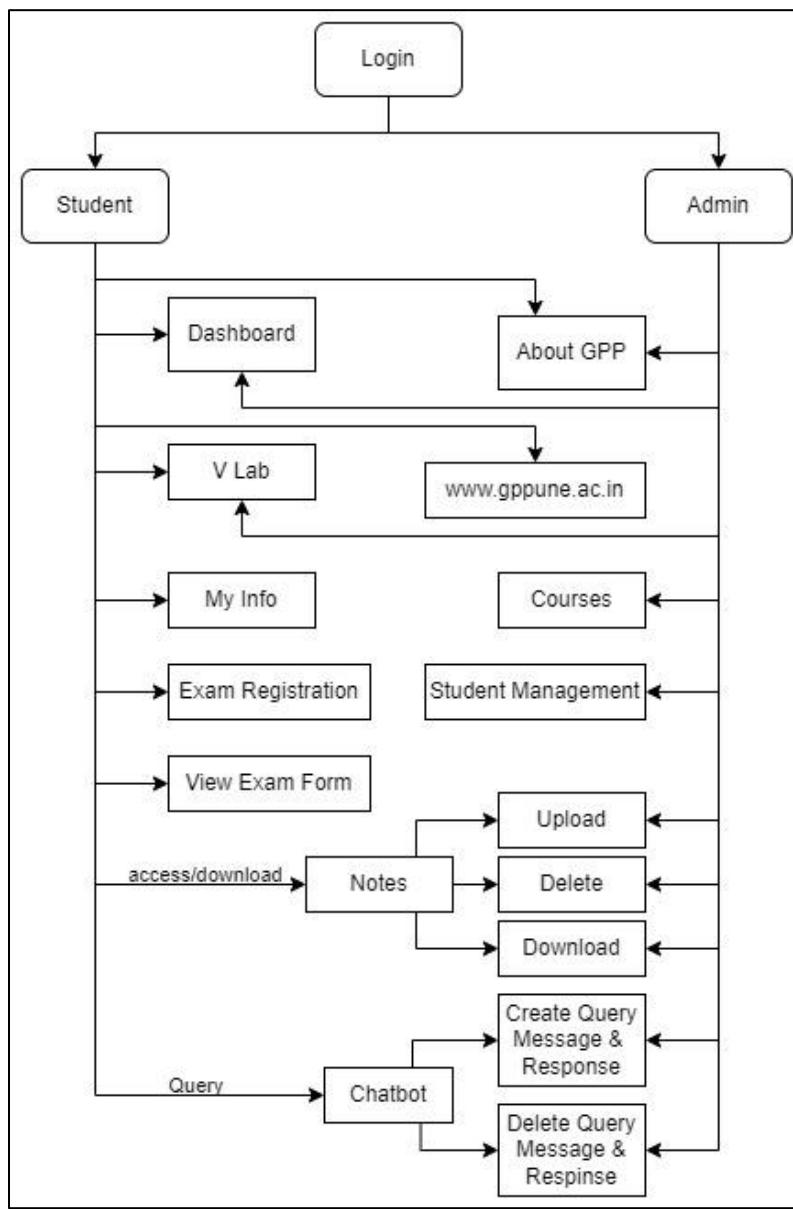


Fig. 5.1: Architecture of Student-College Web Portal

First the user will register/login with the application by using his college details including his enrollment number. After the successful registration/login of the user depending on whether it is the admin or student the user will be redirected to the homepage. After logging into the system the user then can access all the modules present in the system.

The admin will play an important role in adding/deleting new student, new notes, new courses to keep the students updated with all regular and essential news and manage Chatbot to resolve student queries. The admin also has to log in to ensure security is maintained properly.

5.2 Modules

The module are the part of an program. Every set of standardized parts that can be used to make a complex structure is known as a module. In our application we have used various module which performed an important role namely:

5.2.1 Module 1: Home

- It is the homepage.
- It is the default page before and after starting the system.

5.2.2 Module 2: Contact

- It shows contact information of GPP institute

5.2.3 Module 3: Login

- It opens the login page
- There are two types of login
- Admin login is only one but student login can be created through admin login.

5.2.4 Module 4: About GPP

- It shows information of GPP institute

5.2.5 Module 5: www.gppune.ac.in

- It redirects to GPP website

5.2.6 Module 6: VLab

- It redirects to Virtual Laboratory page

5.2.7 Module 7: Dashboard

- It shows the old and new notes that have been uploaded
- It redirects to the notes section to download the notes

5.2.8 Module 8: Courses

- This module is present in Admin Login
- Here we can list, add and delete Courses.

5.2.9 Module 9: Student

- This module is present in Admin Login
- Here admin can view, add and delete students

5.2.10 Module 10: Notes

- It is present for both student and admin login
- Here admin can upload, download and delete notes.
- Student can only download these notes.

5.2.11 Module 11: My Info

- This is present in student login
- Here student can view his own information

5.2.12 Module 12: Exam Registration

- This is present in student login
- Here students can register for exam by selecting practical, orals, term work & theory.

5.2.13 Module 13: View Exam Form

- This is present in student login
- Here student can view his registered courses

5.2.14 Module 11: Chatbot

- This is present for both admin login and student login
- Admin can manage chatbot by adding responses to expected questions
- Admin can also chat with the chatbot
- Student ask queries to chatbot

5.3 Diagrams

5.3.1 Flowchart

- Student Flowchart

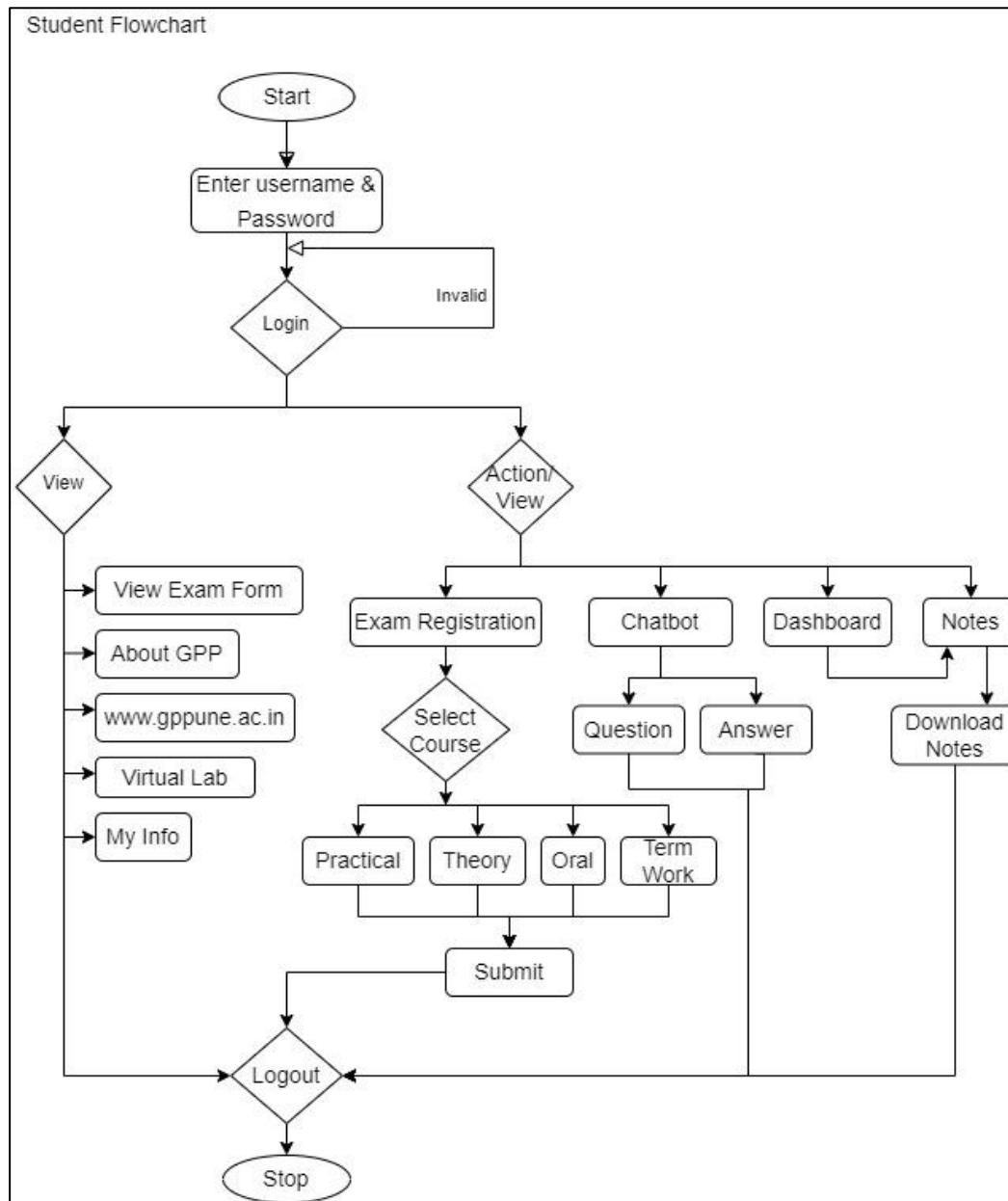


Fig 5.3.1 Flowchart of student login

A flowchart is a type of diagram that represents an algorithm, workflow or process, showing the steps as boxes of various kinds and their order by connecting them with

arrows. It is used in analyzing, designing, documenting or managing a process or program in various fields.

These flowcharts show the workflow of student login and all its modules in our system. Here after the student logs in he/she can view and take some action on above mentioned modules. Students can view the information about GPP, visit the institute website, use virtual lab, they can also see their own information by clicking on the My Info module. Students can also register for Exam by selecting the options practical, oral, theory and term work. After registering they view their exam form as well and make changes as per need. On the dashboard we have notes displayed. Any new notes that have been uploaded by the teachers will be available and displayed on the dashboard. Clicking on these notes will redirect the user to the Notes page. Here the student can see all the notes that have been uploaded by the teachers and ultimately download them as needed on their device.

Although the students are provided with contact information in case of any problems, they are also provided with a Chatbot. At the most basic level, a chatbot is a computer program that simulates and processes human conversation (either written or spoken), allowing humans to interact with digital devices as if they were communicating with a real person. The chatbot in our system uses already registered responses on the already registered queries. If any of the student queries matches those of the chatbot queries then the chatbot provides with an answer to their questions. If in any case the question doesn't match the chatbots response it will respond with "I'm sorry I do not understand".

- Admin Flowchart

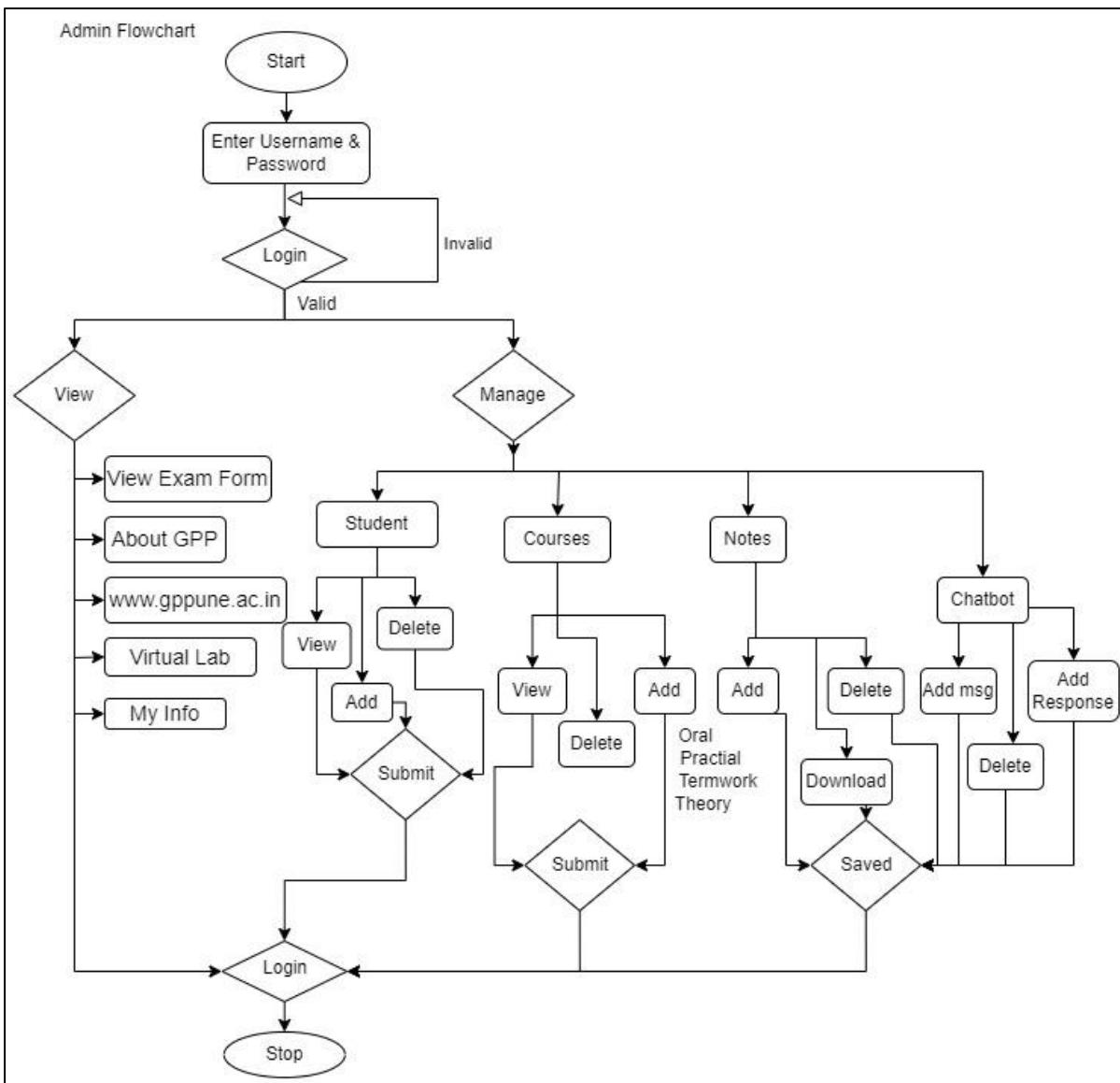


Fig 5.3.1 Flowchart of admin login

As we know an admin is the most essential and important actor in any system. He or she performs almost all the important activities, hence it is important to keep track of all the activities perform by an admin.

In Student-College Web Portal admin can also be recognized as a teacher who handles all the working of the student. He/ she is responsible for adding student, removing them, adding notes and deleting them, managing chatbot system, etc.

This flowchart provides the details of an admin panel and the way he is going to perform and use the resources of all the different modules. After login just like student

admin also can view information about GPP and visit V Labs and GPP website. Other than this he can also manage student information, add or delete courses, upload new notes to update the students regularly. Admin has the privilege to manage chatbot by adding expected messages and their responses, and at the same time delete them as well.

5.3.2 UML Use Case diagrams

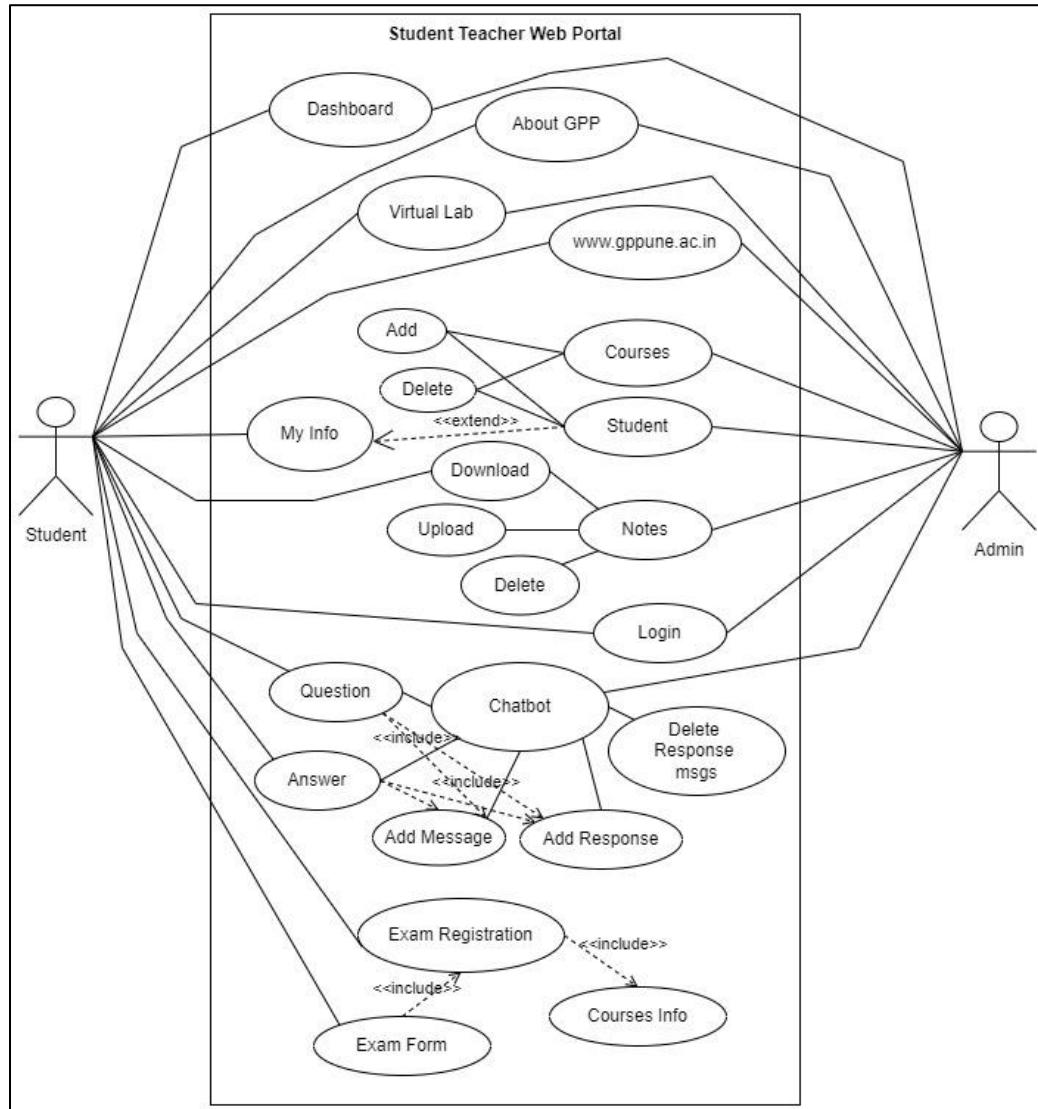


Fig 5.3.2 UML Use case diagram of Student-College Web Portal

Use case diagrams are usually referred to as behavior diagram used to describe a set of actions that some system can perform in collaboration with one or more external users of the system.

Use case diagram of Student-College Web Portal shows two actors i.e. Student and Admin. Here each user has access to certain modules inside the system and each of those modules are interconnected with each other by inheriting a few of each others attributes.

5.3.3 Data Flow Diagram

5.3.3.1 Admin Level 0 DFD

The 0 level DFD known as context level data flow diagram. The context level data flow diagram (DFD) describes the whole system. The (0) level DFD describes all the user modules who run the system. Below context level data flow diagram of Student – College Web Portal project shows the one Admin user can operate the system. Admin do all activities after login to system.

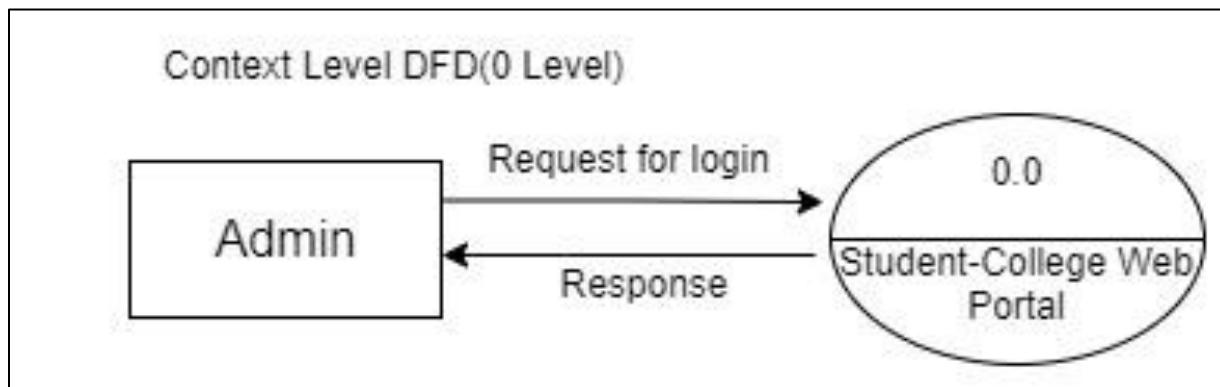


Fig 5.3.3.1 0 Level DFD of admin login

5.3.3.2 Admin Level 1 DFD

The Admin side DFD describes the functionality of Admin. Admin is a person responsible for running the project. After login to system admin can first Add Course Detail and Teacher Detail and then add student detail by course wise. Admin can manage student, notes, courses and chatbot.

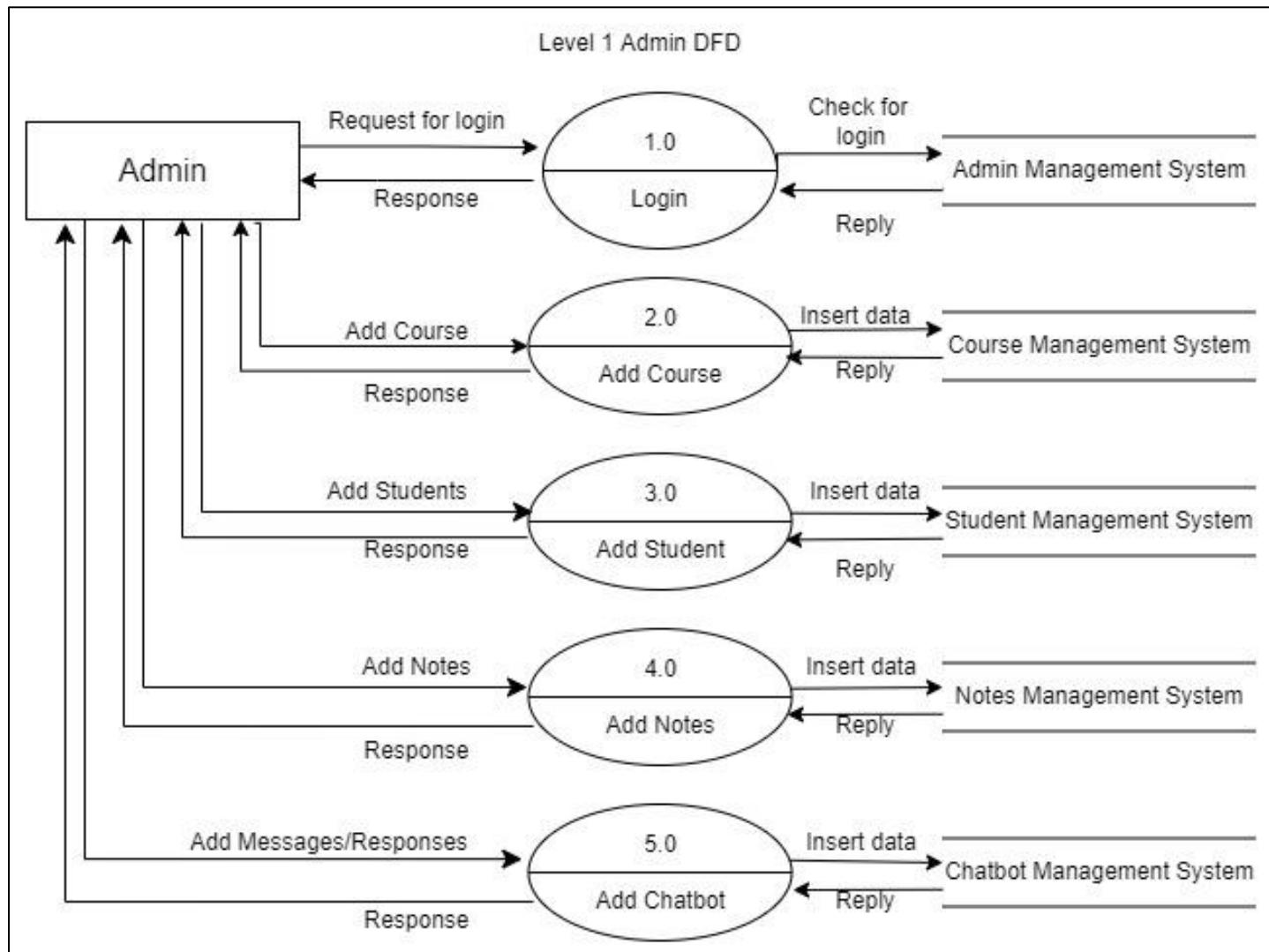


Fig 5.3.3.2 Level 1 DFD of admin login

5.3.3.3 Admin Level 2 DFD (Level 4.0)

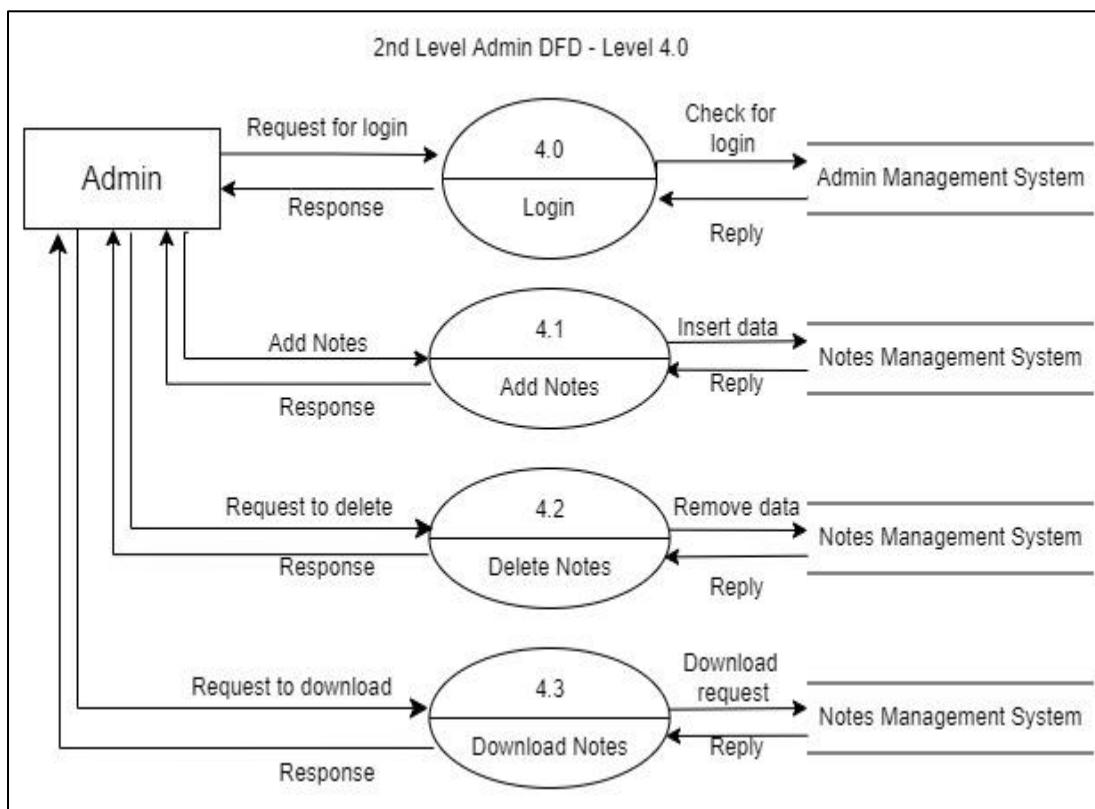


Fig 5.3.3.3 Level 2 DFD(Level 4.0) of admin login

Admin Level 2 DFD (Level 6.0)

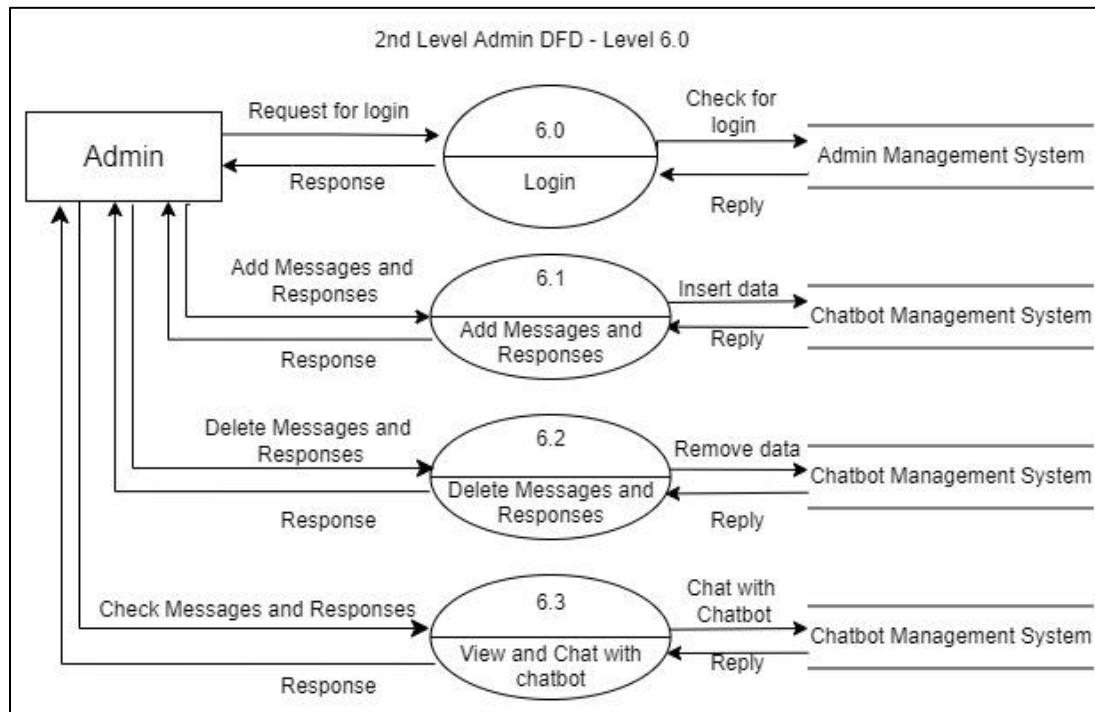


Fig 5.3.3.4 Level 2 DFD(Level 6.0) of admin login

5.3.3.4 Student Level 0 DFD (Level 4.0)

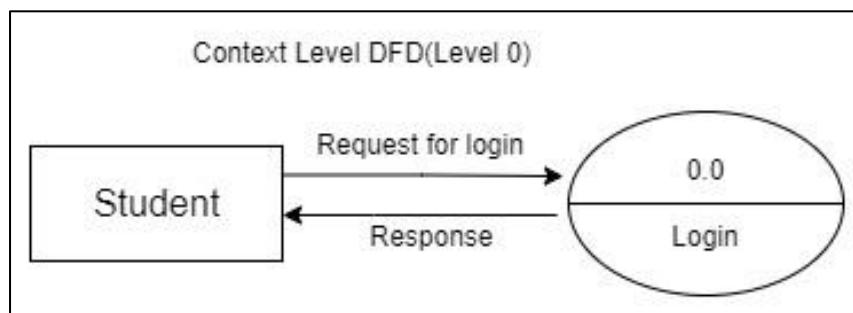


Fig 5.3.3.4 Level 0 DFD of Student login

5.3.3.5 Student Level 1 DFD

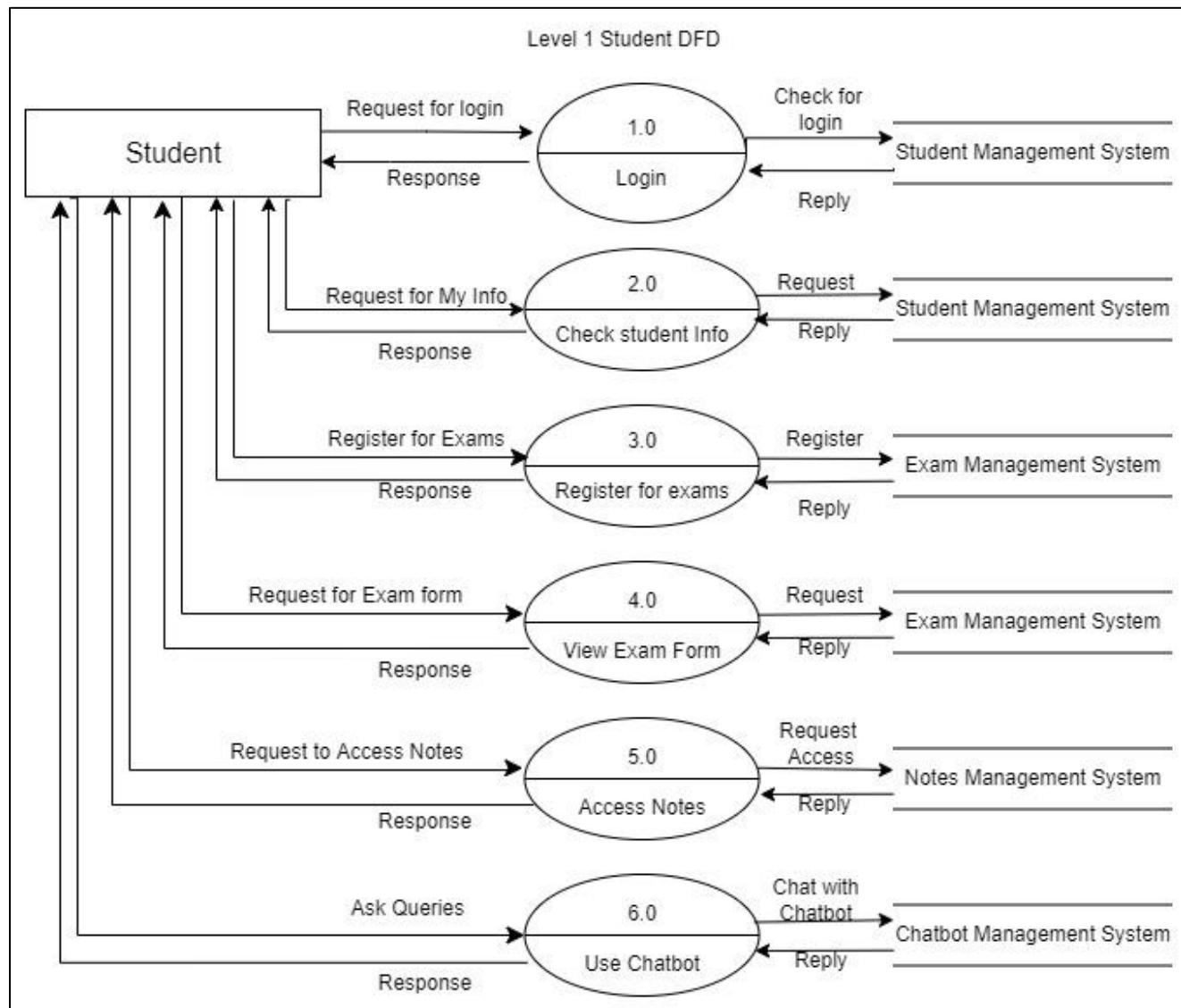


Fig 5.3.3.5 Level 1 DFD of Student login

5.3.4 Class Diagram

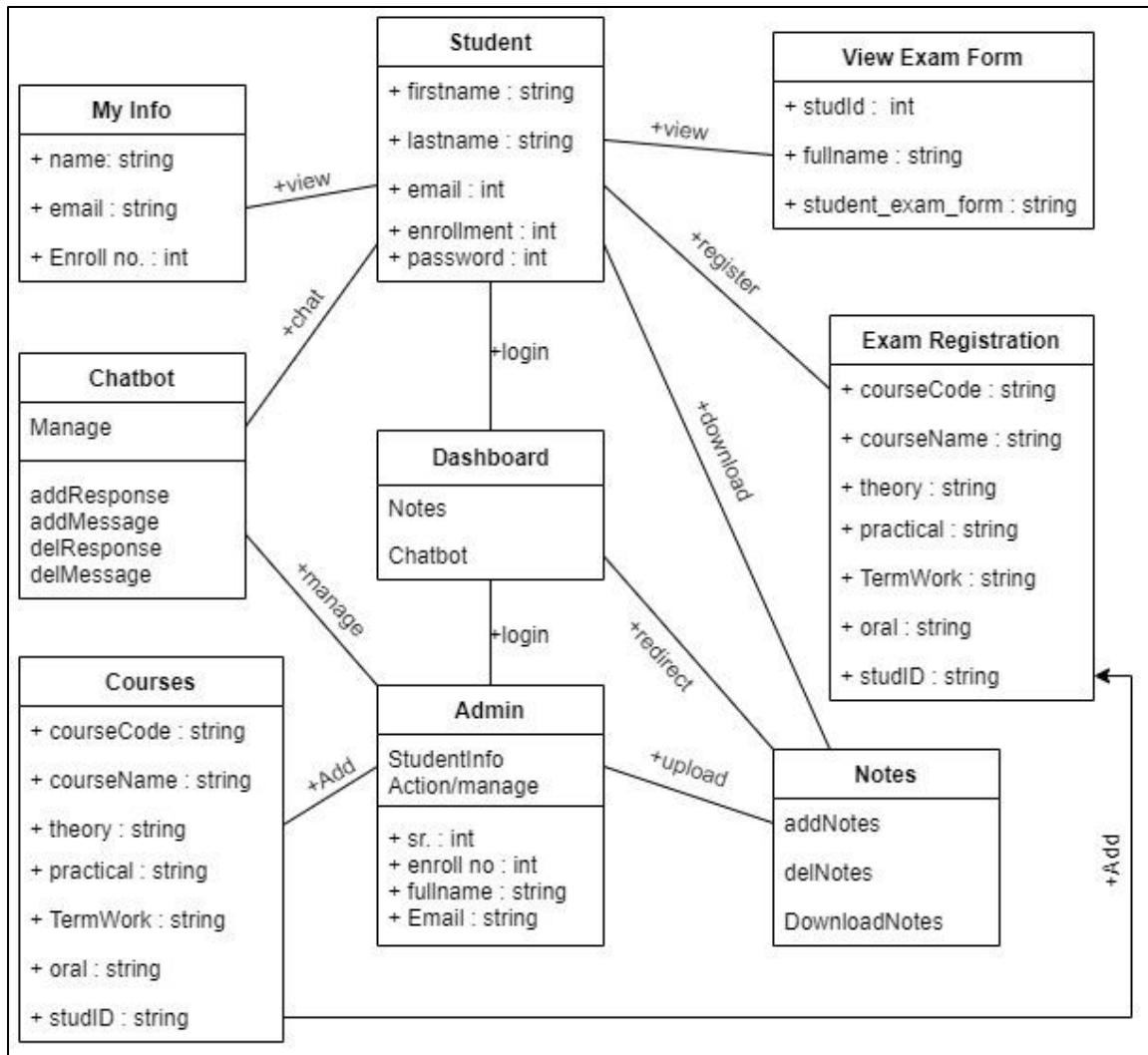


Fig 5.3.4 Class Diagram of Student-College Web Portal

A class diagram is a type of a static structure diagram that describes the structure of Student-College Web Portal by showing the system's classes, their attributes, operations(or methods) and the relationships among objects.

The class diagram is the main building of the object-oriented modeling.

5.3.5 Sequence Diagram

- Student Sequence Diagram

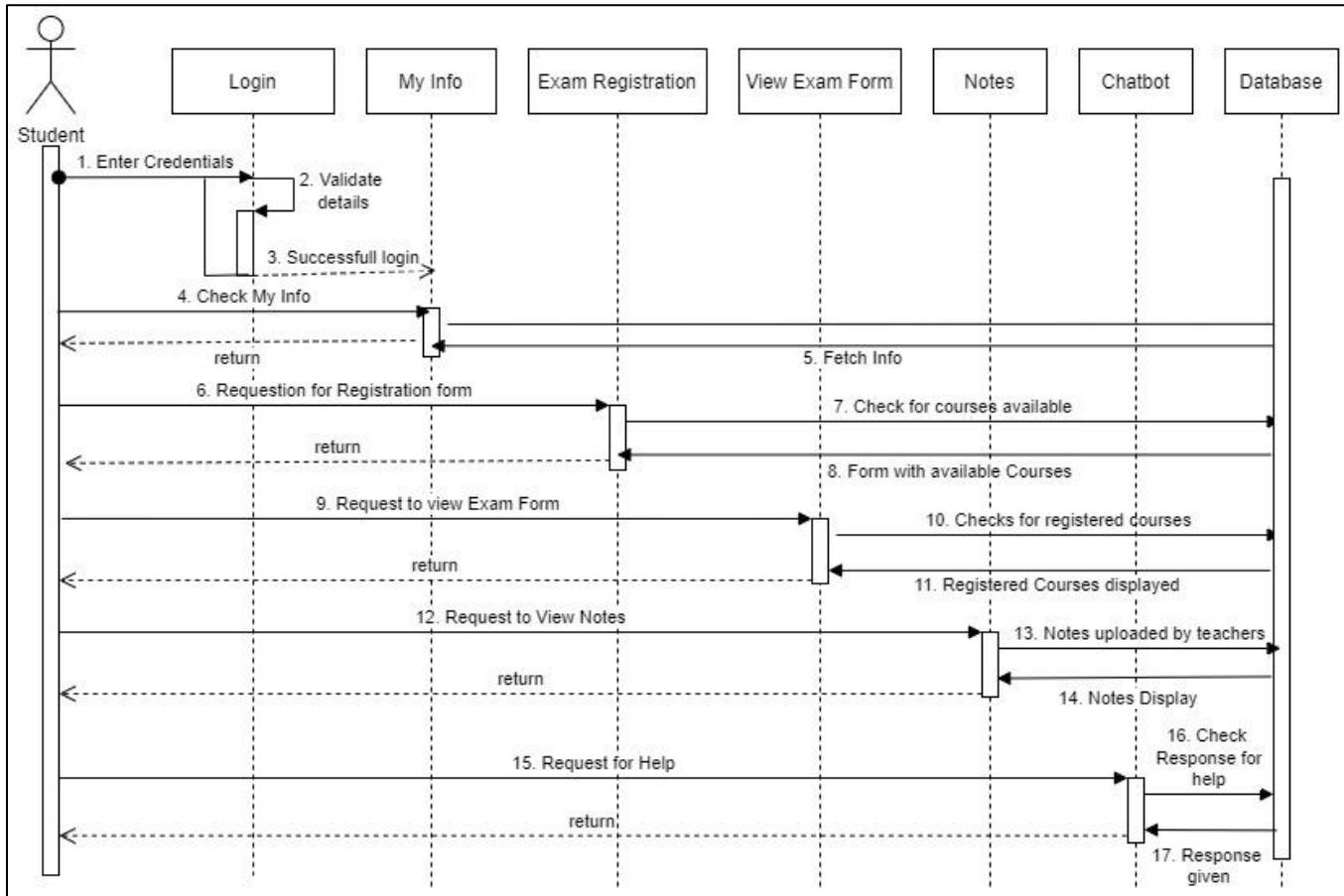


Fig 5.3.5.1 Student Sequence Diagram of Student-College Web Portal

A sequence diagram is an interaction between diagram that shows how objects operate with one another and in what order.

It is a construct of message sequence chart. A sequence diagram shows object interactions arranged in time sequence.

Here the sequence of all activities performed by the student can be seen from logging in to all the requests.

- Admin Sequence Diagram

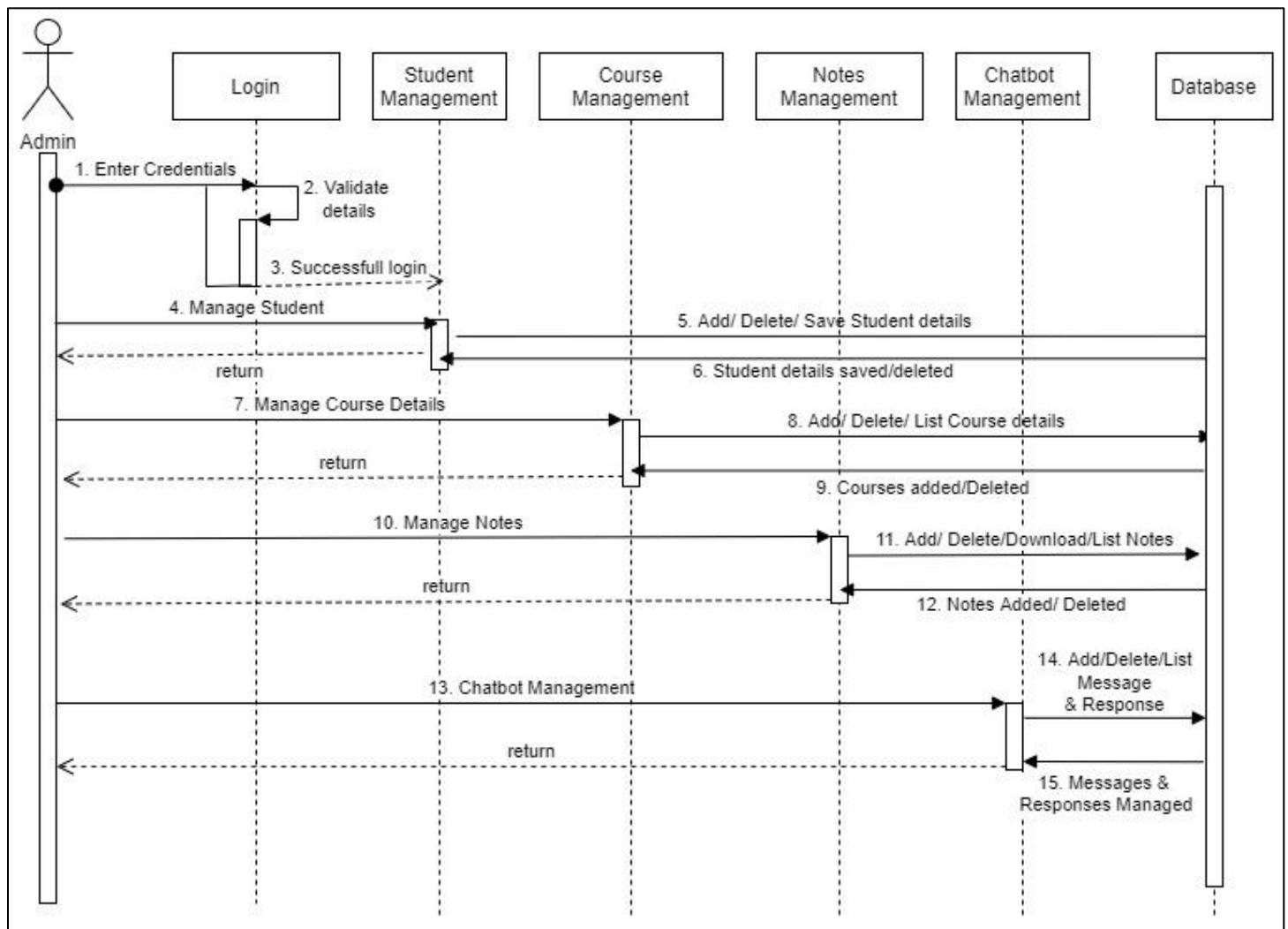


Fig 5.3.4.1 Admin Sequence Diagram of Student-College Web Portal

Here sequence of all activities performed by Admin can be seen. As we know an admin is the most essential and important actor in any system. He or she performs almost all the important activities, hence it is important to keep track of all the activities perform by an admin.

In Student-College Web Portal admin can also be recognized as a teacher who handles all the working of the student. He/ she is responsible for adding student, removing them, adding notes and deleting them, managing chatbot system, etc.

The above diagram shows all the activities performed by the admin in a proper sequence from log in to managing all the activities.

5.3.6 ER Diagram

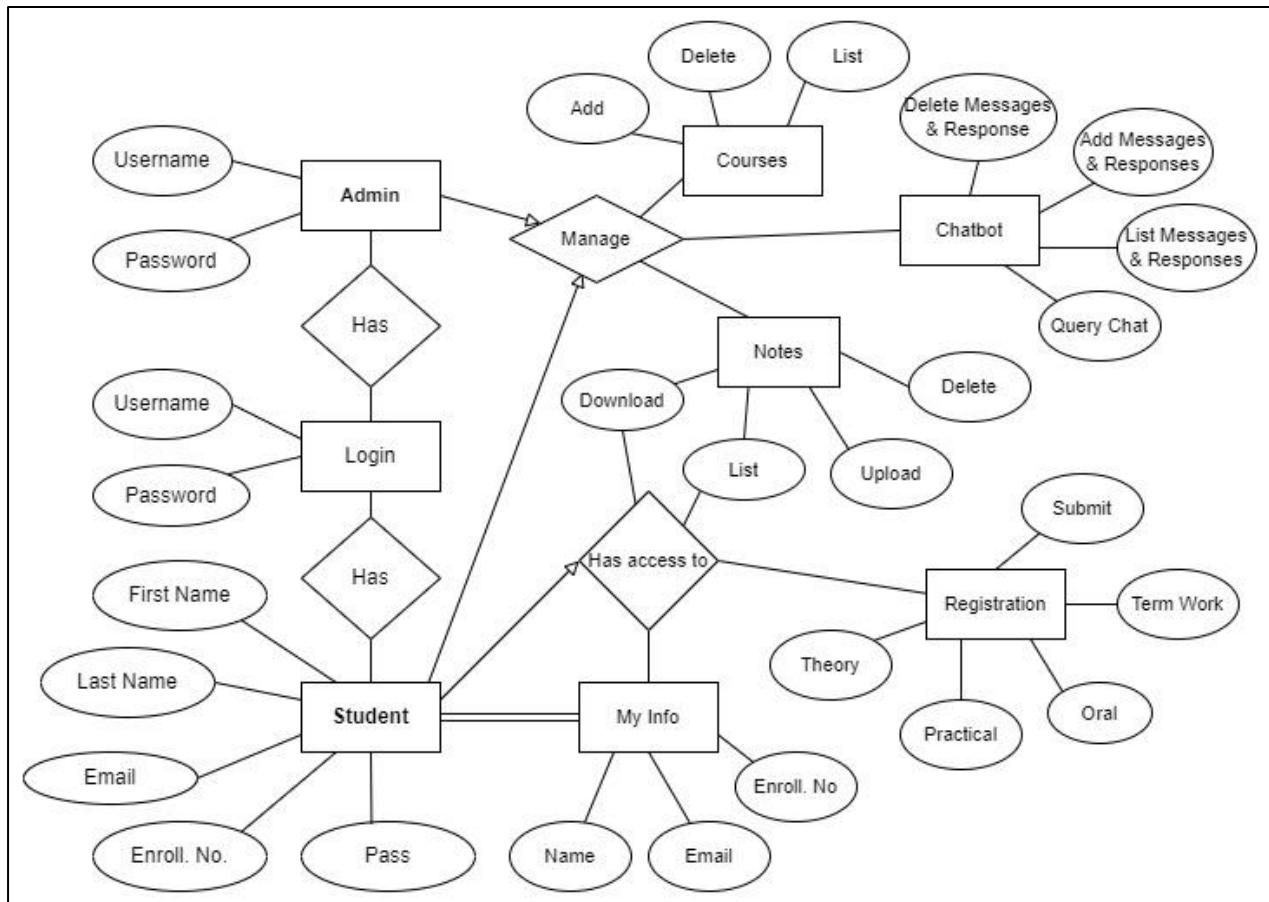


Fig 5.3.6 ER Diagram of Student-College Web Portal

ER Diagram stands for Entity Relationship Diagram, also known as ERD is a diagram that displays the relationship of entity sets stored in a database. In other words, ER diagrams help to explain the logical structure of databases. ER diagrams are created based on three basic concepts: entities, attributes and relationships.

The ER diagram for Student-College Web Portal shows Student, Admin, Login, Courses, Chatbot, Notes, My Info and Exam Registration as Entities or strong entities. Each entity has its own attribute for example the entity student has First Name, Last Name, Email, Enroll. No., Password as its attributes. Each Entity has a relationship with other entities which is defined by ‘Has’.

5.4 Database Design

➤ Database Name : gpp

- Chatbot table :

Field	Datatype	Description	Constraint
id	Varchar(40)	Id	NOTNULL
messages	Varchar(40)	Message added by admin	NOTNULL
response	Varchar(100)	Response added by admin	NOTNULL

- Course Table :

Field	Datatype	Description	Constraint
course_code	Varchar(100)	Course code	NOT NULL
Course_name	Varchar(100)	Course name	NOT NULL
Theory	Varchar(100)	theory	NOT NULL
Practical	Boolean	practical	NOT NULL
Oral	Boolean	oral	NOT NULL
term_work	Boolean	termwork	NOT NULL

- Login table :

Field	Datatype	Description	Constraint
Username	Varchar(100)	Username	NOT NULL
Password	Varchar(100)	Password	NOT NULL
Role	Varchar(100)	role	NOT NULL

- Notes table :

Field	Datatype	Description	Constraint
Title	Varchar(100)	Title of notes	NOT NULL
url	Varchar(100)	File	NOT NULL

- **Student_exam_form table :**

Field	Datatype	Description	Constraint
Course_code	Varchar(100)	Course code	NOT NULL
Course_name	Varchar(100)	Name of course	NOT NULL
Theory	Varchar(100)	Theory	NOT NULL
Practical	Varchar(100)	Practical	NOT NULL
Oral	Varchar(100)	Oral	NOT NULL
Term_work	Varchar(100)	Termwork	NOT NULL
Student_id	Varchar(100)	Student Id	NOT NULL

- **Student_info_table :**

Field	Datatype	Description	Constraint
First_name	Varchar(100)	Name of student	NOT NULL
Last_name	Varchar(100)	Last name of student	NOT NULL
Email	Varchar(100)	Email id of student	NOT NULL
Enroll_number	Varchar(100)	Enrollment number of student	NOT NULL

5.5 Software Testing

5.5.1 Purpose:

This document explains the various activities performed as part of testing of ‘Student / College Web portal web application.

5.5.2 Application Overview:

‘Student / College portal is a web-based college management application. Online College Portal (OCP) provides a simple interface for maintenance of student–faculty information. It can be used by educational institutes or colleges to maintain the records of students easily. The creation and management of accurate, update information regarding a students’ academic career is critically important in the university as well as colleges. Student information system deals with all kind of student details, course details and other related details too.

5.5.3 Testing Scope:

- Modules in the application:
 1. Admin
 2. Dashboard
 3. Student
 4. Course Registration
 5. View Exam Form
 6. Add Student
 7. Manage Chatbot
 8. Add Student
 9. Add Course
- Modules in the database of the application:
 1. Chatbot
 2. Courses
 3. Login
 4. Notes
 5. Student_exam_form
 6. Student_info
- In Scope:

Functional Testing for the following modules is possible:

- 1. Admin
- 2. Dashboard
- 3. Student
- 4. Course Registration
- 5. View Exam Form
- 6. Add Student
- 7. Manage Chatbot
- 8. Add Student
- 9. Add Course
- Database Testing for the following modules is possible:
 - 1. Chatbot
 - 2. Courses
 - 3. Login
 - 4. Notes
 - 5. Student_exam_form
 - 6. Student_info
- Out of Scope:

Beta testing was not done for this application.

5.5.4 Types of testing performed:

a) Smoke Testing:

This testing was done whenever a build is received (deployed into Test environment) for testing to make sure the major functionalities are working fine, Build can be accepted, and Testing can start.

b) Positive and Negative Testing:

1. **Positive Testing** is a type of testing which is performed on a software application by providing the valid data sets as an input. It checks whether the software application behaves as expected with positive inputs or not. Positive testing is performed in order to check whether the software application does exactly what it is expected to do.
2. **Negative Testing** is a testing method performed on the software application by providing invalid or improper data sets as input. It checks whether the software application behaves as expected with the negative or unwanted user inputs. The

purpose of negative testing is to ensure that the software application does not crash and remains stable with invalid data inputs.

c) Regression Testing:

1. Regression testing was performed each time a new build is deployed for testing which contains defect fixes and new enhancements, if any.
2. Regression Testing is being done on the entire application and not just the new functionalities and defect fixes.
3. This testing ensures that existing functionalities works fine after defect fix and new enhancements are added to the existing application.
4. Test cases for new functionalities are added to the existing test cases and executed.

5.5.5 Lessons learnt:

Sr. No.	Issues faced	Solutions
1	Smoke testing test cases required to be executed manually each time.	Smoke test cases were automated, and the scripts were run, which ran fast and saved time.
2	Initially, few testers were not having the rights to change defect status in HPQC/ALM. Test lead needed to perform all these tasks.	Rights were obtained from the client, by explaining the difficulty.

5.5.5 Recommendations:

1. Admin control for defect management tool can be given to Offshore Test lead/manager for providing access to Testing team.
2. Each time the onsite admin need not be contacted for requests whenever they arise, thereby saving time due to the geographical time zone difference.

5.5.7 Best practices:

1. A repetitive task done manually every time was time consuming. This task was automated by creating scripts and run each time, which saved time and resources.
2. Smoke test cases were automated, and the scripts were run, which ran fast and saved time.
3. Automation scripts were prepared to add new students, add courses where lot of records need to be created for Testing.
4. Business critical scenarios are separately tested on the entire application which are vital to certify they works fine.

5.5.8 Exit Criteria:

1. All test cases should be executed – **Yes**.
2. All defects in Critical, Major & Medium severity should be verified and closed – **Yes**.
3. Any open defects in trivial severity – **Action plan prepared with expected dates of closure.**

5.5.5 Test Cases

Test Case ID	Test Case Objective	Pre-requisite	Input Data	Expected Result	Actual Result	Status
TC_01	Check the validity of Username	Username field should be available and not passive	Characters	Only characters should be entered	Only characters are entered	PASS
TC_02	Check Validity for Password field	Password Field should be available & not passive.	Characters Numbers & Special Characters	Password should be visible in Password Mode	Password characters are entered as required.	PASS
TC_03	Check whether user can navigate to next page onclick of Login Button	Login Button should be available	-	If user is valid, next page should be displayed. If user is not valid the application should inform so.	The user is navigated to next page if valid credentials are entered.	PASS
TC_04	Check whether user can access each module after logging in	Module must be presents	-	Each module should be opened and can be accessed from anywhere	Each module is opened and accessed from any page	PASS
TC_05	Check whether admin can add and delete courses	Must be in admin login	-	Courses should be added and deleted as per request	Courses can be added and deleted as needed	PASS
TC_06	Check whether entered data is stored in database on click of submit button	Submit button should be available	-	Data is stored in database on Click of submit button	Data is stored in database	PASS
TC_07	Check whether user can download Notes	Notes section should be available	-	Notes are downloaded successfully	Notes can be successfully downloaded and viewed	PASS
TC_08	Check whether from dashboard marquee user is redirected to notes	Dashboard must have notes marquee	-	User should be redirected to Notes on clicking Marquee	User is redirected to Notes on clicking marquee	PASS

TC_09	Check whether you can submit anything after leaving all fields blank	Input fields must be available	-	User should not be able to submit empty fields	User is not able to submit with empty fields	PASS
TC_10	Check whether user can delete anything from the system with delete option	Delete option must be present	-	User should be able to delete the respective object from the system	User is able to delete the respective object from the system	PASS
TC_11	Check whether notes can be uploaded or not	Upload option for notes should be available	-	Admin should be able to upload notes successfully on the system	Admin is successfully able to upload notes on the system	PASS
TC_12	Check whether student can successfully submit the registration form	Registration form should be available	-	Student should be able to submit registration form regardless of all or only one the checkboxes are selected	Student is able to submit the form no matter how many checkboxes selected	PASS
TC_13	Check whether correct information is displayed in Exam Form	View Exam Form should be available	-	Student should be able to see only those subjects which he has selected	Student can see all the subjects that he has selected	PASS
TC_14	Check whether student is able to chat with the chatbot	Chatbot should be available	Hii/Hello in chatbot textbox	Student should get a response such as "How can I help you"	Student gets the response "Hii How can I help you"	PASS
TC_15	Check whether chatbot answers invalid inputs	Chatbot should be available	Type any wrong message	Student should get the response "Sorry I do not understand"	Student gets the response "Sorry I do not understand"	PASS
TC_16	Check whether admin is able to add messages and responses to chatbot	Admin should have chatbot management option available	Add message such as "Hii" and response such as "How can I help you"	Admin should be able to successfully add messages and responses	Messages and responses are successfully added	PASS
TC_17	Check whether added messages and responses are available on chatbot	Chatbot should be available	Hii	Message "Hii" must get the response "Hello How can I help you?"	Response was "Hello How can I help you?"	PASS

TC_18	Check whether only keywords can give you proper response in chatbot	Chatbot should be available	Course	Any keyword from the message “Course code of ST” should give the response “IT4105”	IT4105 is the response	PASS
TC_19	Check Whether given links redirect to the requested page	Links should be available.	Hyperlink	Any hyperlink should redirect to the page that was requested	Hyperlinks successfully redirect to the requested page.	PASS
TC_20	Check whether user can login after entering Invalid credentials	Login page should be available	Invalid credentials	User should not be able to login after entering invalid credentials	User is not able to login after entering invalid credentials	PASS
TC_21	Check whether admin can add two students with the same credentials	Admin should be logged in and add students field should be available	Same enrollment no	Student with same credentials should not be accepted	User with same credentials are not accepted	PASS
TC_22	Check whether student can see all his data after log out and then logging back in again	Must make some data like submit registration form and the log out	Log out then log back in	Student should be able to see correct data even after logging out and back in again	Student is be able to see correct data even after logging out and back in again	PASS

Chapter 6 : SCREENSHOTS

1. Home Page

localhost/college/home.php

Government Polytechnic Pune
शासकीय तंत्रनिकेतन पुणे

Home Contact Login

PERSONAL INFORMATION

Welcome To

About GPP
www.gppune.ac.in
Virtual Lab

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2. Contact page

localhost/college/contact.php

Government Polytechnic Pune
शासकीय तंत्रनिकेतन पुणे

Home Contact Login

PERSONAL INFORMATION

Government Polytechnic, Pune
(An Autonomous Institute of Government of Maharashtra)
Ganeshkhind, University Road, Shivajinagar, Pune-411016, Maharashtra, India.
Phone : 91-020-25559200, 020-25559219
Email : principal@gppune.ac.in

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3. Login page :

3.1

The screenshot shows the official website of Government Polytechnic Pune. At the top, there is a blue header bar with the university's name in English and Marathi. Below the header is a navigation bar with links for Home, Contact, and Login. A sidebar on the left is titled "PERSONAL INFORMATION" and contains links for About GPP, the website address (www.gppune.ac.in), and Virtual Lab. The main content area features a central login form with a blue header that says "Please Login". The form includes fields for "Enter Username" and "Enter Password", and a "Login" button at the bottom. At the very bottom of the page, there is a footer bar with the copyright notice "Copyright © 2021 - 2022. All rights reserved." and standard browser control icons.

3.2 Invalid Login page

This screenshot is similar to the one above, showing the official website of Government Polytechnic Pune. The layout is identical, including the header, navigation bar, sidebar, and footer. However, the central login form now displays an error message. The blue header of the form now says "Invalid Credentials" instead of "Please Login". The rest of the form (username and password fields, and the "Login" button) remains the same as in the valid login screenshot.

4. Admin login page :

4.1 Dashboard page :

The screenshot shows the Admin Dashboard of the Government Polytechnic Pune website. The header features the college's logo and the text "Government Polytechnic Pune" in English and "शासकीय तंत्रनिकेतन पुणे" in Marathi. The top navigation bar includes links for "Home", "Contact", "Logout", and "Welcome - admin". A sidebar on the left titled "PERSONAL INFORMATION" lists various administrative links: Dashboard, About GPP, www.gppune.ac.in, Virtual Lab, Courses, Student, Notes, and Manage Chatbot. The main content area displays a large blue-bordered box containing two small blue "NEW" notifications: "nn" and "is_chapter1". At the bottom, a copyright notice reads "Copyright © 2021 - 2022. All rights reserved." and there is a "Chatbot" button.

4.2 Add Course page :

The screenshot shows the "Add Course" page of the Government Polytechnic Pune website. The header and sidebar are identical to the dashboard. The main form is titled "Add Course" and contains fields for "Course Code" (with a placeholder "Course Code") and "Course Name" (with a placeholder "Course Name"). Below these are four checkboxes labeled "Theory", "Practical", "Oral", and "Term Work", each preceded by a small square input field. At the bottom of the form are "Cancel" and "Submit" buttons. A "Chatbot" button is located in the bottom right corner. The footer displays the copyright notice "Copyright © 2019 - 2020. All rights reserved."

4.3 After adding courses :

The screenshot shows a dashboard for 'admin' user. On the left, there's a sidebar with 'PERSONAL INFORMATION' and links to 'Dashboard', 'About GPP', 'www.gppune.ac.in', 'Virtual Lab', 'Courses', 'Student', 'Notes', and 'Manage Chatbot'. The main content area has a title 'Government Polytechnic Pune' and 'शासकीय तंत्रनिकेतन पुणे'. Below it is a table titled 'Add' showing course details:

Sr.	Course Code	Course Name	Theory	Practical	Oral	Term Work	Action
1	CM4104	Project	-	✓	✓	✓	
2	CM1234	Cloud Technologies	✓	-	✓	✓	
3	IT5555	Software Testing	✓	✓	-	✓	
4	CM5105	GGT	✓	-	✓	✓	

4.4 Add student page :

The screenshot shows a 'Add Student' form on the website. The sidebar and header are identical to the previous screenshot. The main content area has a title 'Government Polytechnic Pune' and 'शासकीय तंत्रनिकेतन पुणे'. Below it is a form titled 'Add Student' with fields for 'First Name', 'Last Name', 'Email', 'Enrollment No.', and 'Password'. At the bottom are 'Cancel' and 'Submit' buttons.

The screenshot shows the Government Polytechnic Pune website. At the top, there is a blue header bar with the university's logo on the left and the text "Government Polytechnic Pune" and "शासकीय तंत्रनिकेतन पुणे" in the center. Below the header, there is a navigation bar with links for "Home", "Contact", "Logout", and "Welcome :- admin". On the left side, there is a sidebar titled "PERSONAL INFORMATION" containing links for "Dashboard", "About GPP", "www.gppune.ac.in", "Virtual Lab", "Courses", "Student", "Notes", and "Manage Chatbot". The main content area is titled "Add Student" and contains fields for "First Name" (Shivani), "Last Name" (Zele), "Email" (shivanizele16@gmail.com), "Enrollment No." (1907069), and "Password" (*****). At the bottom of this form are "Cancel" and "Submit" buttons.

4.5 After adding student :

The screenshot shows the same website after a student has been added. The "Success!" message from the previous step is still visible. Below it, a table lists two students: Mahima Shinde (Enrollment No. 1907070) and Shivani Zele (Enrollment No. 1907069). Each row in the table includes an "Action" column with a delete icon. At the bottom of the page, there is a copyright notice: "Copyright © 2021 - 2022. All rights reserved." and a small window control icon.

4.6 After deleting student :

The screenshot shows the 'PERSONAL INFORMATION' section of the website. On the left is a sidebar with links: Dashboard, About GPP, www.gppune.ac.in, Virtual Lab, Courses, Student, Notes, and Manage Chatbot. The main area has a header 'Government Polytechnic Pune' and 'शासकीय तंत्रनिकेतन पुणे'. Below the header is a table titled 'Add' with columns: Sr., Enrollment No., Full Name, Email, and Action. There is one row with data: Sr. 1, Enrollment No. 1907070, Full Name Mahima Shinde, Email mahima@5002@gmail.com, and an Action button represented by a red square icon.

4.7 Add notes page :

The screenshot shows the 'PERSONAL INFORMATION' section of the website. On the left is a sidebar with links: Dashboard, About GPP, www.gppune.ac.in, Virtual Lab, Courses, Student, Notes, and Manage Chatbot. The main area has a header 'Government Polytechnic Pune' and 'शासकीय तंत्रनिकेतन पुणे'. A modal window titled 'Add Notes' is open, containing fields for 'Title' (Software Testing unit_2) and 'File' (Choose File Pr.docx). At the bottom of the modal are 'Cancel' and 'Upload' buttons.

4.8 Notes will be added : admin can download notes and delete notes by pressing respective icon.

The screenshot shows a web application interface for 'Government Polytechnic Pune'. At the top, there is a blue header bar with the university's logo on the left and the text 'Government Polytechnic Pune' and 'शासकीय तंत्रनिकेतन पुणे' in the center. Below the header, there is a navigation menu with links for 'Home', 'Contact', 'Logout', and 'Welcome :- admin'. On the left side, there is a sidebar titled 'PERSONAL INFORMATION' containing links for 'Dashboard', 'About GPP', 'www.gppune.ac.in', 'Virtual Lab', 'Courses', 'Student', 'Notes', and 'Manage Chatbot'. The main content area has a table titled 'Add' with columns for 'Sr.', 'title', and 'Action'. The table contains three rows of data:

Sr.	title	Action
1	nn	
2	is_chapter1	
3	Software Testing unit_2	

4.9 Manage Chatbot page :

The screenshot shows a web application interface for 'Government Polytechnic Pune'. At the top, there is a blue header bar with the university's logo on the left and the text 'Government Polytechnic Pune' and 'शासकीय तंत्रनिकेतन पुणे' in the center. Below the header, there is a navigation menu with links for 'Home', 'Contact', 'Logout', and 'Welcome :- admin'. On the left side, there is a sidebar titled 'PERSONAL INFORMATION' containing links for 'Dashboard', 'About GPP', 'www.gppune.ac.in', 'Virtual Lab', 'Courses', 'Student', 'Notes', and 'Manage Chatbot'. The main content area has a form titled 'Add Messages' with fields for 'Messages' and 'Response'. The 'Messages' field contains 'Project' and the 'Response' field contains 'Project course cod is CM5101'. At the bottom of the form are 'Cancel' and 'Save' buttons.

4.10 Page After Adding message in chatbot :

The screenshot shows the Government Polytechnic Pune website. At the top, there is a blue header bar with the university's logo and name in both English and Marathi. Below the header, a navigation bar includes links for Home, Contact, Logout, and a welcome message for the administrator ('admin'). A sidebar on the left is titled 'PERSONAL INFORMATION' and lists various links such as Dashboard, About GPP, www.gppune.ac.in, Virtual Lab, Courses, Student, Notes, and Manage Chatbot. The main content area features a green success message box containing the text 'Success!'. Below this, a table displays three messages with their responses and an 'Action' column containing delete icons. The table has columns for Sr No., Messages, Response, and Action.

Sr No.	Messages	Response	Action
1	my account is down	We are currently carrying out routine maintenance.	
2	Hello	Hey there, How can I help you?	
3	Project	Project course cod is CM5101	

5 . Student login page :

The screenshot shows the Government Polytechnic Pune website. The layout is similar to the previous page, with the university's logo and name at the top. The navigation bar includes Home, Contact, and Login. A sidebar on the left is titled 'PERSONAL INFORMATION' and lists About GPP, www.gppune.ac.in, and Virtual Lab. A central modal window titled 'Please Login' contains fields for 'User ID' (with the value '1907069') and 'Password' (with the value '.....'). A 'Login' button is located at the bottom of the modal. At the bottom of the page, there is a footer bar with the text 'Copyright © 2021 - 2022. All rights reserved.' and some small icons.

5.1 Page After login : Dashboard page

The screenshot shows the dashboard of the Government Polytechnic Pune website. At the top, there is a blue header bar with the university's logo on the left and the text "Government Polytechnic Pune" and "शासकीय तंत्रनिकेतन पुणे" in the center. Below the header, there is a navigation bar with links for "Home", "Contact", "Logout", and "Welcome :- 1907069". On the left side, there is a sidebar titled "PERSONAL INFORMATION" containing links for "Dashboard", "About GPP", "www.gppune.ac.in", "Virtual Lab", "MyInfo", "Exam Registration", "View Exam Form", and "Notes". The main content area has a large blue-bordered box containing three green "NEW" notifications: "nn", "is_chapter1", and "Software Testing unit_2".

5.2 About GPP page :

The screenshot shows the "About GPP" page of the Government Polytechnic Pune website. The layout is similar to the dashboard, with a blue header bar featuring the university's logo and the text "Government Polytechnic Pune" and "शासकीय तंत्रनिकेतन पुणे". The navigation bar includes "Home", "Contact", "Logout", and "Welcome :- 1907069". The sidebar on the left is titled "PERSONAL INFORMATION" and lists the same links as the dashboard. The main content area contains a paragraph about the history and achievements of the institute, followed by two sections: "Vision" and "Mission". The "Vision" section states the goal of developing self-reliant, versatile, innovative, quality-conscious engineers for the betterment of society. The "Mission" section lists several bullet points: "Update curricula in association with stakeholders.", "Modernize infrastructure & facilities.", "Set up strategic alliance with industries.", "Enhance e-governance.", and "Continuous development of faculty & staff."

5.3 My info page :



Government Polytechnic Pune
शासकीय तंत्रनिकेतन पुणे

Home | Contact | Logout | Welcome :- 1907069

PERSONAL INFORMATION

- Dashboard
- About GPP
- www.gppune.ac.in
- Virtual Lab
- MyInfo
- Exam Registration
- View Exam Form
- Notes

My Info

Name : Shivani Zele
Email : shivanizele16@gmail.com
Enrollment No: 1907069

5.3 Exam registration Page :



Government Polytechnic Pune
शासकीय तंत्रनिकेतन पुणे

Home | Contact | Logout | Welcome :- 1907069

PERSONAL INFORMATION

- Dashboard
- About GPP
- www.gppune.ac.in
- Virtual Lab
- MyInfo
- Exam Registration
- View Exam Form
- Notes

Exam Form

Sr.	Course Code	Course Name	Theory	Practical	Oral	Term Work
1	CM4104	Project	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	CM1234	Cloud Technologies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	IT5555	Software Testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	CM5105	GGT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Submit

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Government Polytechnic Pune

शासकीय तंत्रनिकेतन पुणे

Home | Contact | Logout | Welcome :- 1907069

PERSONAL INFORMATION

- Dashboard
- About GPP
- www.gppune.ac.in
- Virtual Lab
- MyInfo
- Exam Registration
- View Exam Form
- Notes

Exam Form

Sr.	Course Code	Course Name	Theory	Practical	Oral	Term Work
1	CM4104	Project	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	CM1234	Cloud Technologies	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3	IT5555	Software Testing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
4	CM5105	GGT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Submit



Government Polytechnic Pune

शासकीय तंत्रनिकेतन पुणे

Home | Contact | Logout | Welcome :- 1907069

PERSONAL INFORMATION

- Dashboard
- About GPP
- www.gppune.ac.in
- Virtual Lab
- MyInfo
- Exam Registration
- View Exam Form
- Notes

Success!

Exam Form

You already submitted exam form.

5.4 We can we exam form View exam form page :

5.4.1 View exam form before doing Exam Registration:

The screenshot shows the 'View Exam Form' page of the Government Polytechnic Pune website. The top navigation bar includes the college logo, 'Home', 'Contact', 'Logout', and a welcome message 'Welcome :- 1907069'. On the left, a sidebar titled 'PERSONAL INFORMATION' lists various links: Dashboard, About GPP, www.gppune.ac.in, Virtual Lab, MyInfo, Exam Registration, View Exam Form, and Notes. The main content area displays a table header for 'Name : Shivani Zele' followed by a table with columns: Sr., Course Code, Course Name, Theory, Practical, Oral, and Term Work. A message 'No Records Found!' is displayed below the table.

5.4.2 View exam form after doing Exam Registration:

The screenshot shows the 'View Exam Form' page of the Government Polytechnic Pune website after registration. The layout is identical to the previous screenshot, with the top navigation bar, sidebar, and table header. The main content area now displays a table with four rows of data, each representing a registered course:

Sr.	Course Code	Course Name	Theory	Practical	Oral	Term Work
1	CM4104	Project	-	✓	✓	-
2	CM1234	Cloud Technologies	✓	-	✓	✓
3	IT5555	Software Testing	✓	✓	-	✓
4	CM5105	GGT	✓	-	✓	-

5.5 Notes Page : Student can download notes from this page.



The screenshot shows the 'Notes' section of the Government Polytechnic Pune website. At the top, there is a blue header bar with the university's logo and name in both English ('Government Polytechnic Pune') and Marathi ('शासकीय तंत्रनिकेतन पुणे'). Below the header, a navigation menu includes links for Home, Contact, Logout, and a welcome message ('Welcome :- 1907069'). A sidebar on the left is titled 'PERSONAL INFORMATION' and lists various student services: Dashboard, About GPP, www.gppune.ac.in, Virtual Lab, MyInfo, Exam Registration, View Exam Form, and Notes. The main content area displays a table with three rows of notes, each with a download icon. The columns are labeled 'Sr.', 'title', and 'Action'. The notes listed are: 1. nn, 2. is_chapter1, and 3. Software Testing unit_2.

6. By clicking on Chat icon we can chat with administrator and can ask queries.



The screenshot shows the 'Online Chatbot' feature on the Government Polytechnic Pune website. The interface is similar to the previous screenshot, with the university's logo and name at the top. The 'PERSONAL INFORMATION' sidebar is visible on the left. On the right, a large white box contains a blue header 'Online Chatbot'. Inside, a blue message bubble says 'Hi' and a grey message bubble says 'Good day, how can we help you please?'. At the bottom, there is a text input field with placeholder text 'Please enter your message here' and a blue 'Send' button.

The screenshot shows the homepage of the Government Polytechnic Pune (GPP) website. At the top, there is a blue header bar with the university's logo on the left and the text "Government Polytechnic Pune" and "शासकीय तंत्रनिकेतन पुणे" in the center. Below the header, there is a navigation bar with links for "Home", "Contact", "Logout", and "Welcome :- 1907069".

On the left side, there is a sidebar titled "PERSONAL INFORMATION" containing the following links:

- Dashboard
- About GPP
- www.gppune.ac.in
- Virtual Lab
- MyInfo
- Exam Registration
- View Exam Form
- Notes

The main content area contains a large blue-bordered box with the text "NEW Software Testing unit_2" inside it.

On the right side, there is an "Online Chatbot" window with a purple header. The chatbot interface shows a conversation between a user and the bot:

- User: hi
- Bot: Sorry, I can't understand you.
- User: hello
- Bot: Hey there, How can I help you?
- User: project course code
- Bot: project course code is :CM1234

Below the chatbot window, there is a text input field with the placeholder "Please enter your message here" and a "Send" button. At the bottom right of the chatbot window, there is a "Close" button.

We can logout from page by click on logout button.

Chapter 7 : ADVANTAGES & DISADVANTAGES

- **Advantages :**

- Online Exam Registration students can do from anywhere.
- Students can ask queries through online chatbot.
- Teachers can manage students data online.
- Teachers can upload notes in notes section and student can access notes online.
- Teachers can add, delete courses as well as students.
- Teachers can manage chatbot.
- This system will provide the time efficiency.
- This system cost is very low. This system is very fast and effective.
- Students and teachers will be connected with each other.
- Online college – student portal is working as intermediate between college and student by using this platform we can perform college related tasks.

- **Disadvantages :**

- Absence of proper internet-network makes it difficult for a user to access information, which is a significant disadvantage. But all these drawbacks can be avoided by choosing proper, cost-efficient and best software that best benefits an organization.
- This application only runs on localhost.
- Required proper internet connection.
- Required PHP version 5 and above.
- This application doesn't work on android platform.

Chapter 8 : APPLICATIONS:

The college- student portal is not just an idea but source to many limits and easy surfing. The college portal online web application is having following applications :

- Easy to use.
- This application gives you an good user interface.
- This application can be used in many institutions by just changing the name.
- This application allows you to stay connected to the college updates.
- This application can be used in college / student management .
- Time saving is main feature of this application.
- This make it perfect application.
- Functionality is working very fine.
- Many colleges can use this project for their college by modifying the changes in code .

Chapter 9 : FUTURE SCOPE

Our application can be enhanced in the future to give much functionality, which we have not yet included. As you all know the GPP online is so wide an area there are so many things, which can come under it. It is not possible to provide all the functionality due to limitations of resources. So here we will discuss some of the enhancements, which can be made to our application.

We can enhance our GPP online Application to get new features. We can enhance the application so that user can access college website. It will make the user happy that he can do his college web at one Application.

Another enhancement, which we can provide is that this application used by many institutes by changing the names. This can push the boundaries of using this application due to its Functionality

We can enhance our application to manage the events to be displayed on the pages of our application. There can be management panel for the events, which selects the events to be displayed.

We can do lots of modification by just modifying the modules.

College information: Through this service one can access the complete information about the college campus such as courses available, admission procedure, placements, college events, achievements etc.

Chapter 10 : CONCLUSION

In this way, we have completed our project based on “Student-college portal”. We are very thankful to Mrs. Shraddha Hande ma’am for her guidance and support.

We tried our best to prepare this project informative and attractive as per given problem statement. The successful completion of our project would not have been possible without the dedicated support from all our mentors, family and friends. I am feeling satisfied after the completion of my project.

Chapter 11 : REFERENCE

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