

ONLINE ASSIGNMENT MANAGEMENT SYSTEM

A PROJECT REPORT SUBMITTED IN PARTIAL FULFILMENT
OF REQUIREMENT FOR THE AWARD OF THE DEGREE

**MASTER OF COMPUTER APPLICATIONS (MCA)
OF
MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**By
ANUSHKA PRASHANTH
Reg No: 22PMC116**



MAKING COMPLETE

Marian College Kuttikkanam (Autonomous)

Peermade, Kerala – 685 531

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**Under the guidance of
Ms.Kochumol Abraham
Assistant Professor**

PG Department of Computer Applications
Marian College Kuttikkanam (Autonomous)



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PG DEPARTMENT OF COMPUTER APPLICATIONS

Marian College Kuttikkanam (Autonomous)

[MAHATMA GANDHI UNIVERSITY, KOTTAYAM]

KUTTIKKANAM – 685 531, KERALA.

CERTIFICATE

This is to certify that the project work entitled

“Eduworld”

is a bonafide record of work done

by **ANUSHKA PRASHANTH**

Reg. No: - 22PMC116

In partial fulfillment of the requirements for the award of Degree of

MASTER OF COMPUTER APPLICATIONS [MCA]

During the academic year 2022 - 2024.

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ANUSHKA PRASHANTH

ABSTRACT

Online assignment management system is a web based application that provides a platform for both student and teachers to manage and track assignments. Here using this platform teacher can upload the assignment related to their subject . Once they upload the assignment the registered student under that teacher will receive the mail. Teacher can add assignment and provide feedback to the students once its checked. Teacher can also add any important notice and the student will be able to see it on their dashboard. This system is convenient for both teachers and students. Since students will receive the mail they will be aware of the assignment and can do the submission without delay. Using this system student can view assignment , upload assignment and view their mark. The file they upload can be viewed later when needed. To improve communication and user experience, the system incorporates a notification feature. Users receive notifications about new assignments, upcoming deadlines, grading updates, and other important events. Notifications can be delivered through email or within the system . The system also includes search and filter functionality, enabling users to quickly locate specific assignments based on various criteria such as course, deadline, or title . By implementing the Online Assignment Management System, educational institutions can centralize assignment management, automate assignment-related tasks, enhance collaboration between teachers and students, and provide timely feedback to improve the learning process.

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1. INTRODUCTION

1.1 PROBLEM STATEMENTS

The problem arises from manual system used by institutions is that there is no record about the time or marks of student assignments. Some of the student hand over their assignments after due date. Some of the assignments can be lost by student as well as teachers and since there is no record it is difficult for the teachers to check whether they have submitted or not and a situation may arise where the student need to rewrite it once again. After the teachers correct the assignments and return back some students may not get it back as there are chance for the book being misplaced. With the help of the proposed system such situations came be overcome. This project also reduces student and teachers workload. The student can submit their assignment before the deadline from anywhere as he or she is uploading it online . The assignments remain safe in the system and can be viewed anytime. This system is very user friendly too.

1.2 PROPOSED SYSTEM

An online assignment management system is a web-based platform designed to streamline and automate the process of managing assignments, projects, and tasks. It provides a centralized location for teachers, students, and administrators to collaborate, track progress, submit and evaluate assignments, and manage deadlines. This system will allows the teacher to communicate to students add the assignments and other important message. Once the teacher upload the assignment the registered student will receive the mail regarding the uploaded assignment. Using this system teacher can verify the assignment and provide feedback to the students. This system can help the institutions to increase their productivity and quality of education

1.3 FEATURES

1. User Roles and Permissions: The system should support different user roles such as teachers, students, and administrators, each with specific permissions and access levels.
2. Assignment Creation and Distribution: Teachers can create assignments, specify assignment details, such as title, description, due date, and associated resources. They can distribute assignments to specific students or groups.
3. Assignment Submission: Students can submit their assignments electronically through the system, attaching necessary files or documents. The system should support various file formats and provide a user-friendly interface for submission.
4. Grading and Feedback: Teachers can evaluate and grade assignments online, providing feedback and comments. The system should allow for customizable grading criteria and enable teachers to track and record grades for each assignment.
5. Document Management: The system supports file uploads and storage of assignment-related documents. This allows teachers to provide assignment guidelines, reference materials, or additional resources, and students to access them conveniently.

6. Discussion and Collaboration: The system facilitates communication and collaboration between teachers and students. It can include important message by teacher and admin.

7. Progress Tracking: Students and teachers is able to track the progress of assignments. The system can display completion status, submission dates, and any pending tasks or requirements

Mail notification: Student receives the mail when teacher uploads an assignment.

8. Security and Privacy: The system should prioritize the security and privacy of user data, employing secure authentication methods, data encryption, and access controls to protect sensitive information.

2. FUNCTIONAL REQUIREMENTS

2. FUNCTIONAL REQUIREMENTS

1. User Management:

- Ability to create and manage user accounts for teachers, students, and administrators.
- User authentication and access control to ensure appropriate access rights for different user roles.

2. Assignment Management:

- Creation, editing, and deletion of assignments by teachers.
- Assignment distribution to specific students or groups.
- Assignment categorization or tagging for easy organization and retrieval.
- Assignment versioning to track changes or updates.

3. Submission and Feedback:

- Students should be able to submit assignments electronically, including file attachments.
- Online viewing and downloading of submitted assignments for teachers.
- Grading and feedback provision for teachers, including the ability to add comments or annotations to student submissions.
- Notifications or alerts to students and teachers on assignment submission and feedback.

4. Deadline Management:

- Ability to set due dates and deadlines for assignments.

5. Document Management:

- Uploading and attachment of files related to assignments, such as assignment guidelines, reference materials, or supplementary resources.
- Secure storage and retrieval of assignment documents.
- Support for various file formats and file versioning if needed.

6. Progress Tracking and Reporting:

- Progress tracking of assignments, including tracking of completed, in-progress, and pending assignments.

7. Announcement from admin related to the institution:

-The admin can post important announcement and the student and teachers are able to view it on their home page.

8. Important notice by teacher:

-Teacher can share important message and students are able to view it on their dashboard

9. Mail notification by teacher about the assignment:

-Once the teacher adds the assignment the registered student will receive the mail.

10. Subject wise report by teacher:

-Teacher can generate subject wise report and are able to see the task done between particular timeperiod.

3 NON-FUNCTIONAL REQUIREMENTS

3. NON-FUNCTIONAL REQUIREMENTS

Non-Functional Requirements will be there in the insurance to the internet:

1. RELIABILITY

The reliability of the overall project depends on the reliability of the separate components. The main pillar of reliability of the system is the backup of the database which is continuously maintained and updated to reflect the most recent changes, Also the system will be functioning inside a container. Thus, the overall stability of the system depends on the stability of container and its underlying operating system.

2. AVAILABILITY

The system should be always available, meaning the user can access it using a web browser, only restricted by the down time of the server on which the system runs. A customer friendly system which is access of people around the world should work 24 hours. In case of a hardware failure or database corruption, a replacement page will be shown. Also, in case of a hardware failure or database corruption, backup of the database should be retrieved from the server and saved by the Organizer. Then the services will be restarted. It means 24 X 7 availability.

3. MAINTAINABILITY

A commercial database is used for maintaining the database and the application server takes care of the site. In case of a failure, a re-initialization of the project will be done. Also, the software design is being done with modularity in mind so that maintainability can be done efficiently

4. SUPPORTABILITY

The code and supporting modules of the system will be well documented and easy to understand.

3.1 Third -Party Libraries:

Install requirements

Package	Version

asgiref	3.6.0
certifi	2022.12.7
click	8.1.3
colorama	0.4.6
Django	4.1.5
django-jazzmin	2.6.0
Flask	2.2.3
itsdangerous	2.1.2
Jinja2	3.1.2
MarkupSafe	2.1.2
pip	23.1.2
python-dateutil	2.8.2
pytz	2020.4
six	1.16.0
soupsieve	2.0.1
sqlparse	0.4.1
tzdata	2022.7
urllib3	2.0.1
Werkzeug	2.2.3
zipp	3.4.0

4. ARCHITECTURE OF YOUR PROJECT

4.1 ARCHITECTURE

Programming Language Used : Python is a versatile and popular programming language known for its simplicity, readability, and extensive range of libraries and frameworks.

Models: In Django, models represent the data structure of the application

Views: Views handle the logic and processing of incoming requests and prepare the necessary data to be rendered by the templates.

HTML and CSS : For developing user interface.

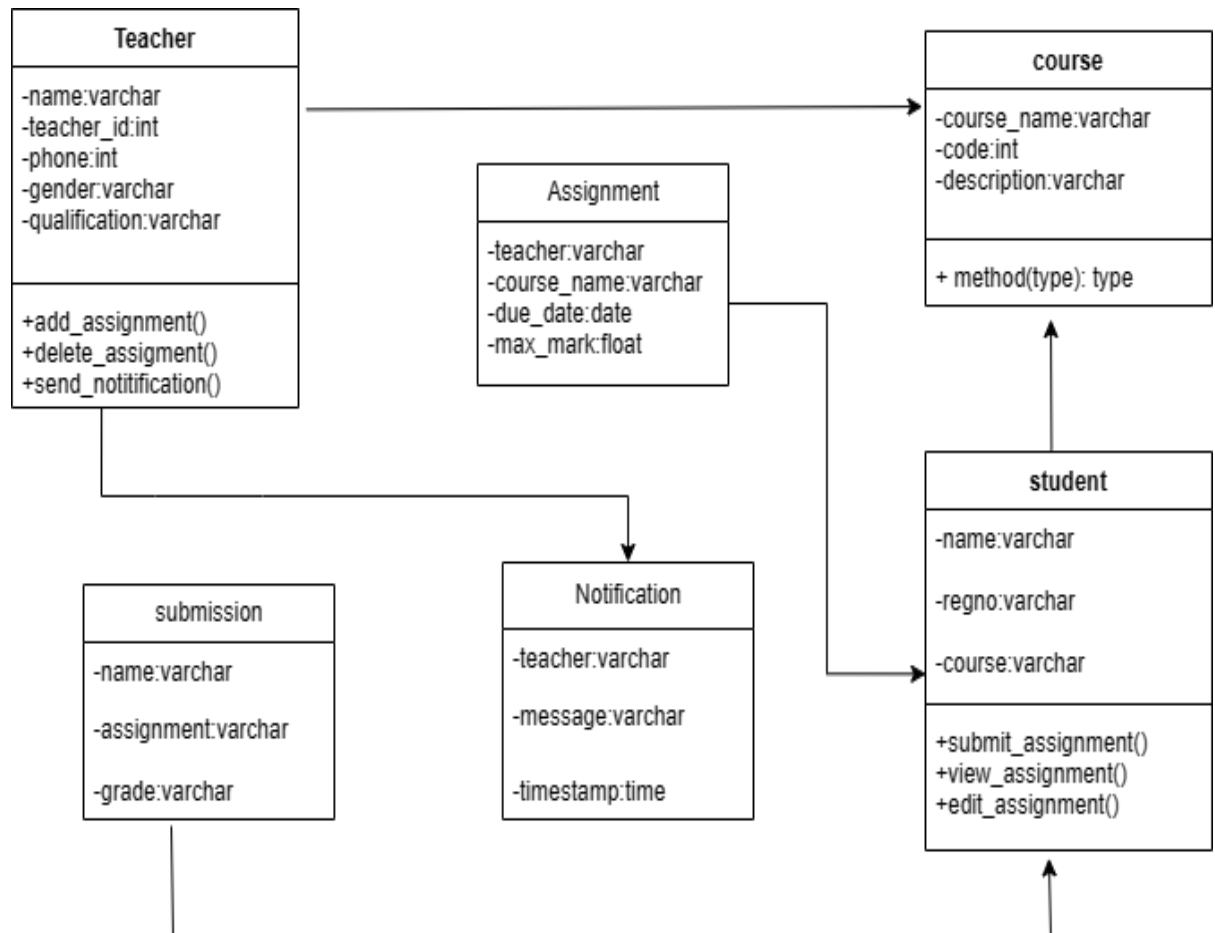
Javascript : For including validation.

URLs: Django's URL dispatcher maps URLs to the corresponding views.

Jazmine : It is used to customize Django admin.

5. UML DIAGRAM

5.1 CLASS DIAGRAM



6. CHALLENGES FACED DURING THE DEVELOPMENT

6.1 CHALLENGES FACED

1. Incorporating new features like mail functionality was a bit challenging.
2. Understanding and removing some errors was difficult
3. Some errors occurred on migration understanding it was a bit difficult for me.
4. The interface design was bit challenging.
5. Implementing an efficient system for managing assignment deadlines and sending notifications to users was complex. Ensuring that notifications are delivered accurately and in a timely manner

7.FUTURE ENHANCEMENT

7.1 FUTURE ENHANCEMENT

The future of online assignment management systems holds great potential for significant enhancements that will revolutionize the way assignments are managed and facilitate improved learning outcomes. These enhancements may include AI-powered plagiarism detection, adaptive learning capabilities, real-time collaboration features, integration with virtual reality, advanced analytics and insights, seamless integration with learning management systems, enhanced security measures, and the utilization of natural language processing. By incorporating these advancements, online assignment management systems can provide a more personalized, engaging, and efficient learning experience for students. Educators will benefit from improved tools to detect plagiarism, customize assignments, and gain valuable insights into student performance. Furthermore, with enhanced security measures and adherence to privacy regulations, students' data will be safeguarded. As technology continues to advance, we can add even more innovative enhancements to online assignment management systems in future . These advancements will contribute to the continuous improvement of education, ensuring that students receive the best possible opportunities to develop their skills, knowledge, and critical thinking abilities.

8. CONCLUSION

A web based Online Assignment System facilitates submission of assignments by students. The system consists of modules where students could upload their answer. Notification are sent to students when new assignment is added . Teachers can check the assignment and provide necessary feedbacks. Students can have only limited access . Using this loss of assignments can be managed ,that is in traditional method the assignment paper can be gone missing . Here teachers and student doesn't have to face any such issues , their files remain safe . This system is very simple to use . Student and teacher can also view important announcements made by the college on their home page . This system is very well suited for every institution as assignment handling task can be made easier for both teachers and students . This project will bring forth a new era of better equipped online assignment management platform.

9. REFERENCES

<http://ir.aiktclibrary.org:8080/xmlui/bitstream/handle/123456789/3608/16CO16.pdf?sequence=1&isAllowed=y>

<https://itsourcecode.com/free-projects/python-projects/online-assignment-submission-system-in-django-with-source-code/>

<https://youtu.be/OLrC4J2-pvk>

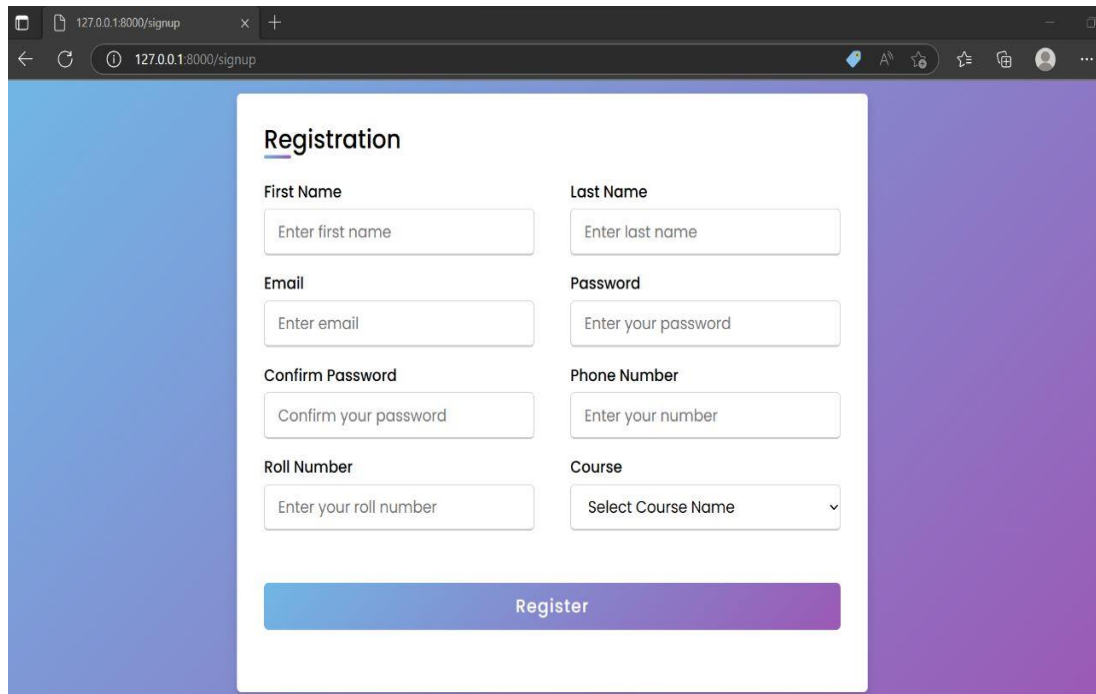
<https://youtu.be/vQLwo49nE4o>

<https://youtu.be/TAg4eYLkZfk>

<https://youtu.be/ye5iECq7HNs>

10.ANNEXURE

Student Registration

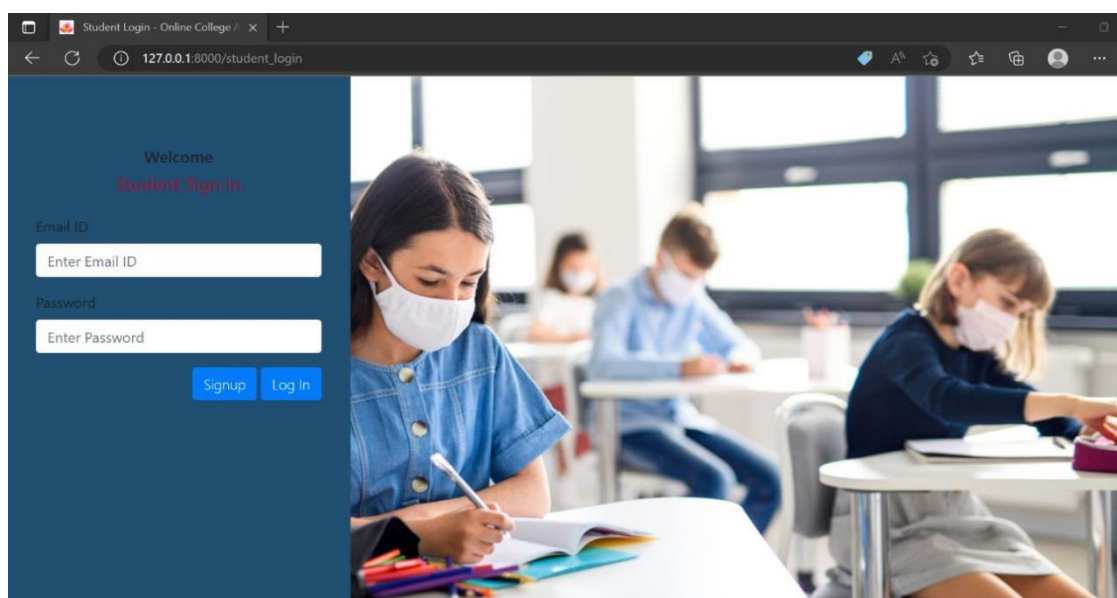


The screenshot shows a web browser window with the address bar displaying "127.0.0.1:8000/signup". The page features a "Registration" form with the following fields:

- First Name**: Text input field with placeholder "Enter first name".
- Last Name**: Text input field with placeholder "Enter last name".
- Email**: Text input field with placeholder "Enter email".
- Password**: Text input field with placeholder "Enter your password".
- Confirm Password**: Text input field with placeholder "Confirm your password".
- Phone Number**: Text input field with placeholder "Enter your number".
- Roll Number**: Text input field with placeholder "Enter your roll number".
- Course**: Dropdown menu with the option "Select Course Name".

A blue "Register" button is located at the bottom of the form.

Student Login

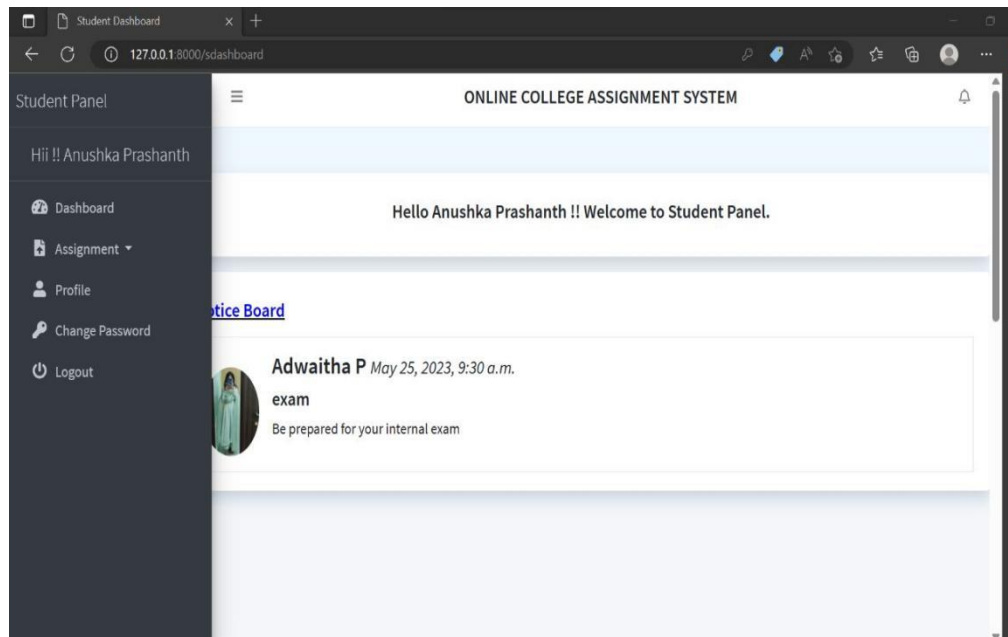


The screenshot shows a web browser window with the address bar displaying "127.0.0.1:8000/student_login". The page features a login form on a dark blue background with the following elements:

- Welcome**: Text label.
- Student Sign in**: Text label in red.
- Email ID**: Text input field with placeholder "Enter Email ID".
- Password**: Text input field with placeholder "Enter Password".
- Signup**: Blue button.
- Log in**: Blue button.

The background of the page shows a blurred image of students wearing masks and sitting at desks in a classroom.

Student Dashboard



Student Profile Update

The screenshot shows a web browser window with the URL `127.0.0.1:8000/studentProfile`. The page title is "Update Profile". The form contains the following fields:

- First Name**: Anushka
- Last Name**: Prashanth
- Email**: anushkaprashanth88@gmail.com
- Mobile Number**: 01425265362
- Course**: B.tech(Information Technology)
- Roll Number**: 1
- Registration Date**: May 25, 2023, 4:51 a.m.

A blue "Update" button is located at the bottom of the form.

Teacher add

Add Teacher

Emp ID: 1005

First Name:

Last Name:

Mobile Number:

Email:

Password:

Gender: Male

Date of Birth: dd/mm/yyyy

Course: Select Course Name

Religion:

Address:

Joining Date	Action
May 25, 2023, 5:07 a.m.	Edit Delete

Teacher Profile

Profile

Profile Pic:

Name: Adwaita P

Gender: Female

Contact Number: May 24, 1997

Religion: Hindu

Email ID: Adwaitaprasanth2003@Gmail.Com

Course: B.Tech (Information Technology)

Add Assignment

Add Assignment

Course Name: B.Tech [Information Technology]

Subject: computer networks

Assignment Title:

Assignment Description:

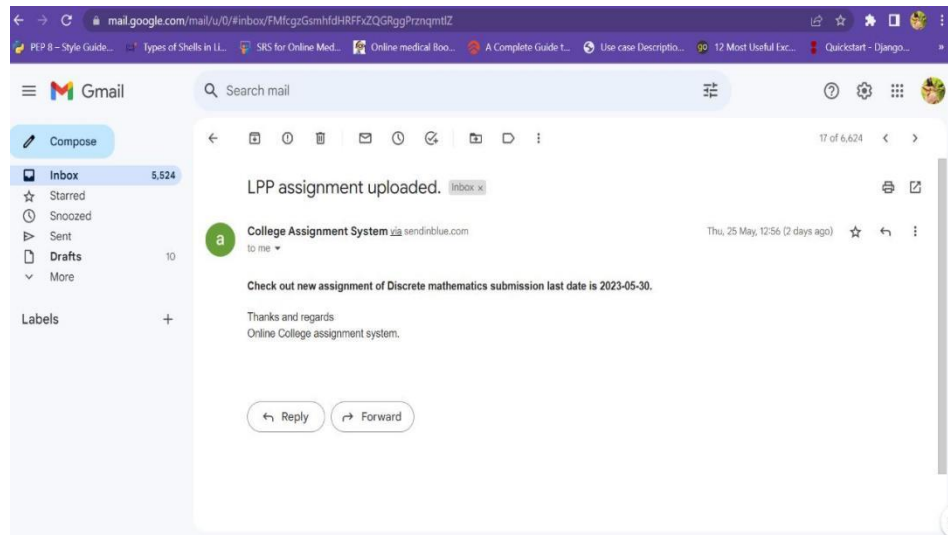
Last Date of Submission: dd/mm/yyyy

Assignment Marks:

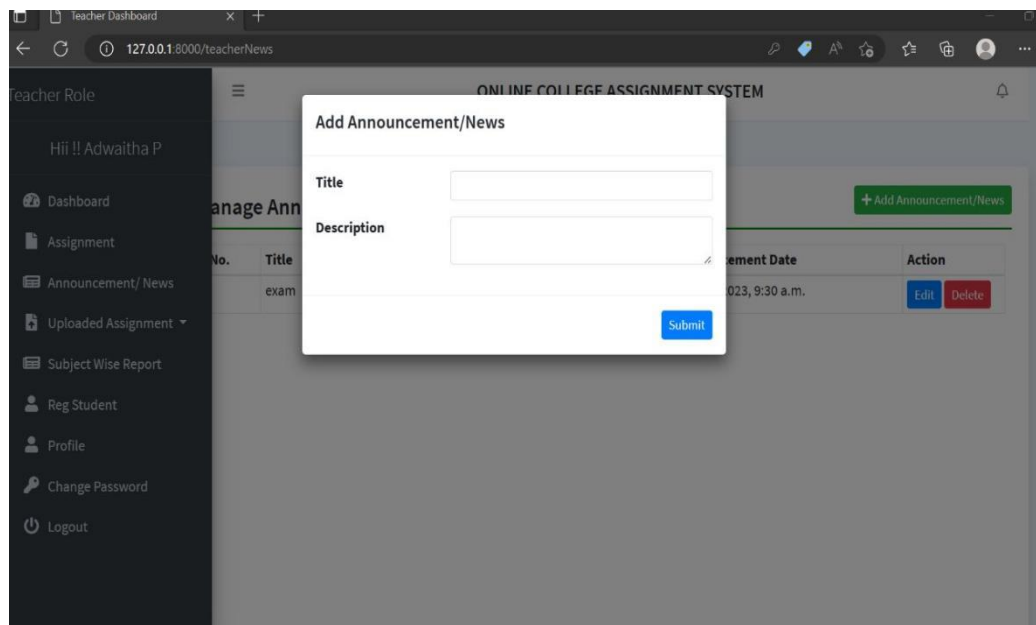
Assignment File: Choose File No file chosen

Submit

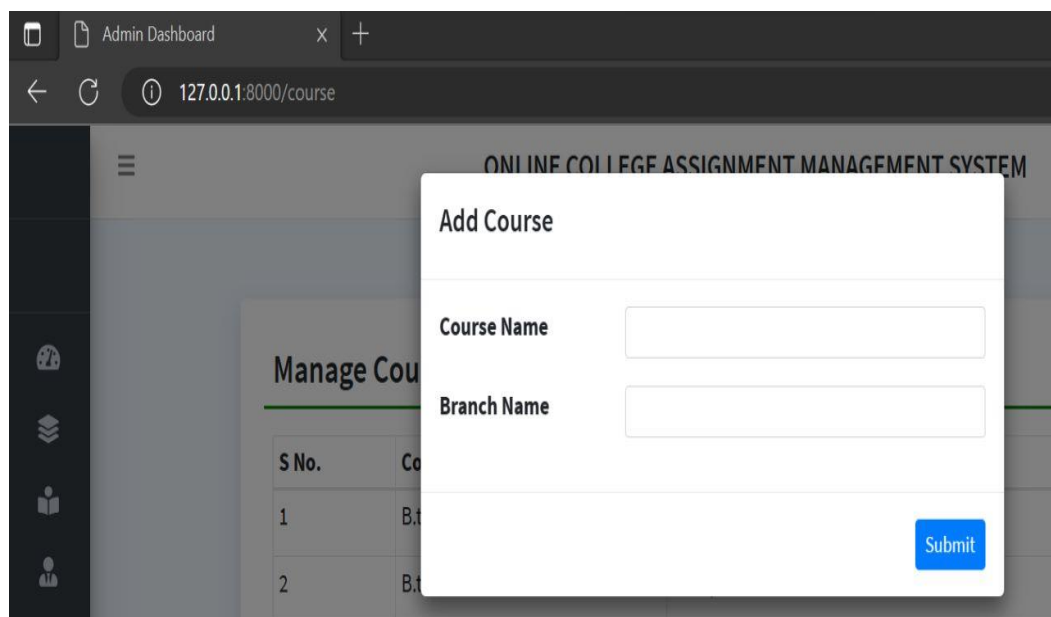
Mail Notification



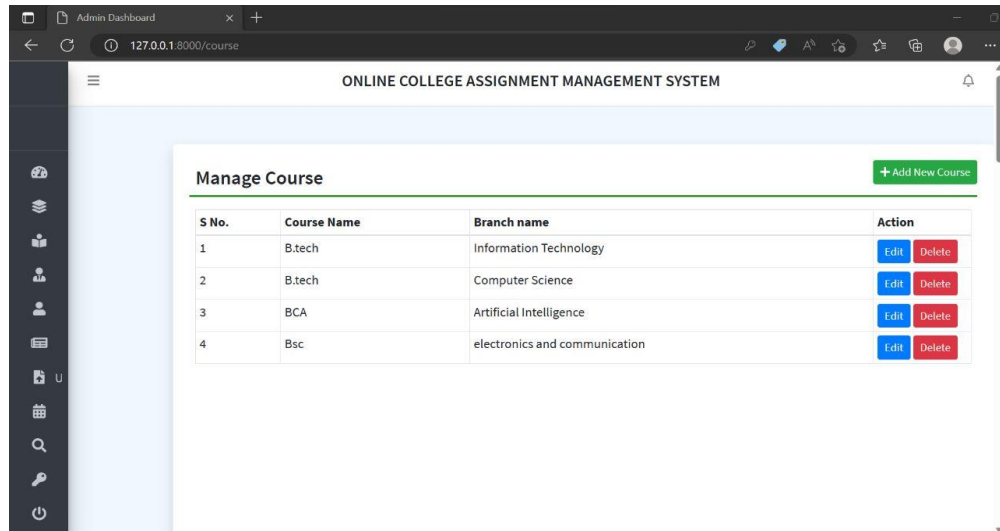
News by Teacher



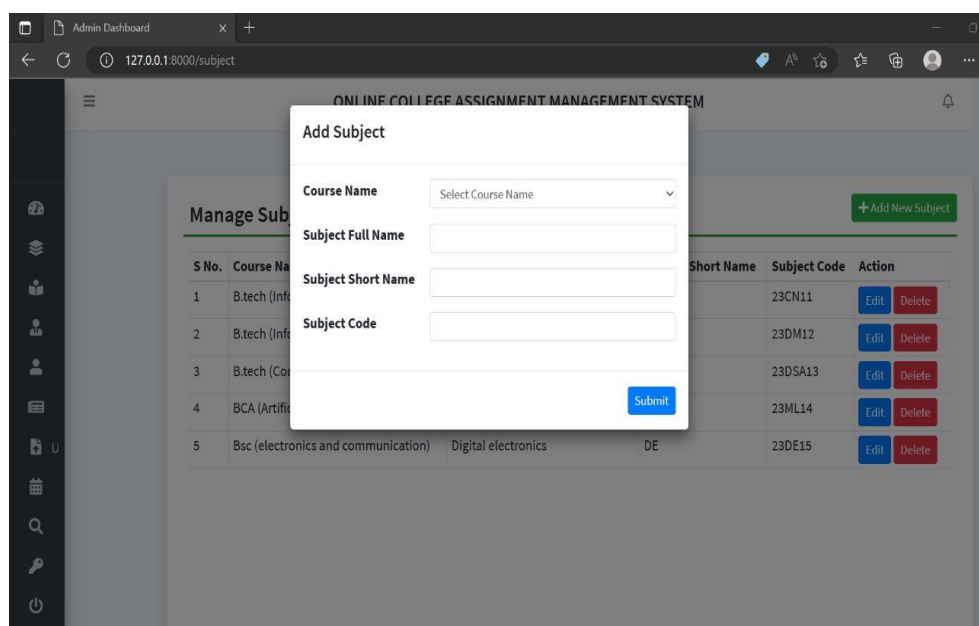
Manage Course



Courses



Add Subject



Announcement From College

