



“Eduweb: A Virtual Classroom”

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Abstract- This project aims to provide a virtual classroom platform with various functionalities for students and teachers. The primary goal of this portal is to design and implement an online assignment submission and grading tool, to provide an interface through which faculty and students can interact online, to ensure the smooth operation of classes, and to generate a progress report. One of the benefits of using online assignment submission tools is that they provide faster transmission of assignments than traditional method of submitting assignments in college, and students can get their doubts cleared using the discussion forum from their peers and teachers. This portal saves faculties time and money by allowing them to respond to students quickly, and it also improves the quality of feedback given to students.

Keywords- Online Education Portal, Assignment Submission and Grading Tool, Discussion Forum, Report Generation

INTRODUCTION

As the educational world becomes faster and more competitive, almost every university has begun to use an online submission system and technologies to facilitate their tasks, save time, and keep up with the fast-moving IT world. An online assignment handling system is a component of the module's virtual learning environment. The functionality of the standard assignment handling module has been expanded to meet all department needs in terms of receiving assignments from students, making them available for marking by tutors, returning grades, comments, and marked work to students, and keeping registry and course administrators informed at all stages of the process and generating a progressive report at the end.

Objective

- The system will assist faculty in uploading study materials, creating assignments, and administering tests to students.
- The system will analyze students' performance and assign grades/marks accordingly.
- A discussion forum where students can post questions.
- In the end, it will also generate a progress report.
- Most importantly, the system will save the user a significant amount of time and effort because the majority of the work will now be automated.

I. LITERATURE REVIEW

Online Education Portal has assumed a significant role in recent times and has attracted serious attention from institutions over the last few years. A literature review reveals a considerable spurt in the use of these systems.

1. Paper Name: Student Management System

Author: Sangamesh K, Akash Samanekar, Ningappa T Pujar

Abstract:

The academic institution's workload is significantly reduced by a web-based management system, which allows them to focus and invest time in their actual goal. Online forms have simplified registration and fee collection. Creating and tracking coursework, assignments, and exam papers in a classroom setting to help students graduate.

2. Paper Name: Design and Analysis of Mobile Learning Management System based on Web App

Author: Shinwon Lee

Abstract:

He proposed a system design in which instructors could set up lectures without the use of professional computer-related technologies, and interaction between instructors and learners would be simplified. This system focuses on making the interaction between instructors and learners easier by utilizing a web browser on a mobile device based on a web app, whenever and wherever learners want to use the system

3. Paper Name: Design Of Web-Based LMS (Learning Management System)

Author: Faez, Poorya Bagheri and Khalid Rahman

Abstract:

Online Project and Assignment Submission, Management and Progress Monitoring System (OPAS) is a system that enables the student to submit their assignment or project online without submitting any physical file.



4. **Paper Name:** Online Project and Assignment Submission, Management and Progress Monitoring System (OPAS)

Author: Muhardi, Muhardi et al

Abstract:

Based on the limited number and time of meetings, a web-based Learning Management System was built by using the PHP programming language and MySQL Using the Waterfall Model Method. An easy way to comply with IJRASET paper formatting requirements is to use this document as a template and simply type your text into it.

II. PROBLEM STATEMENT

EduWeb: A virtual Classroom is designed to provide an interface between students and faculty to virtually assign, submit, and mark/grade systems, as well as a forum for discussion, saving time and effort and making this process easier for both students and faculty.

III. PROPOSED SYSTEM

1. System Architecture

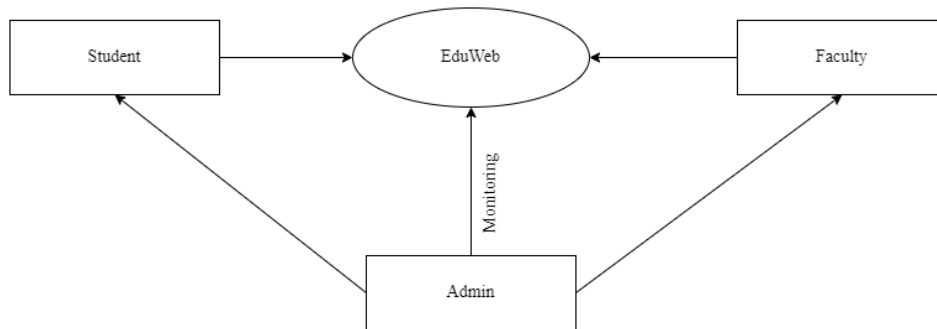


Fig 1. System Architecture

2. Data Flow Diagram

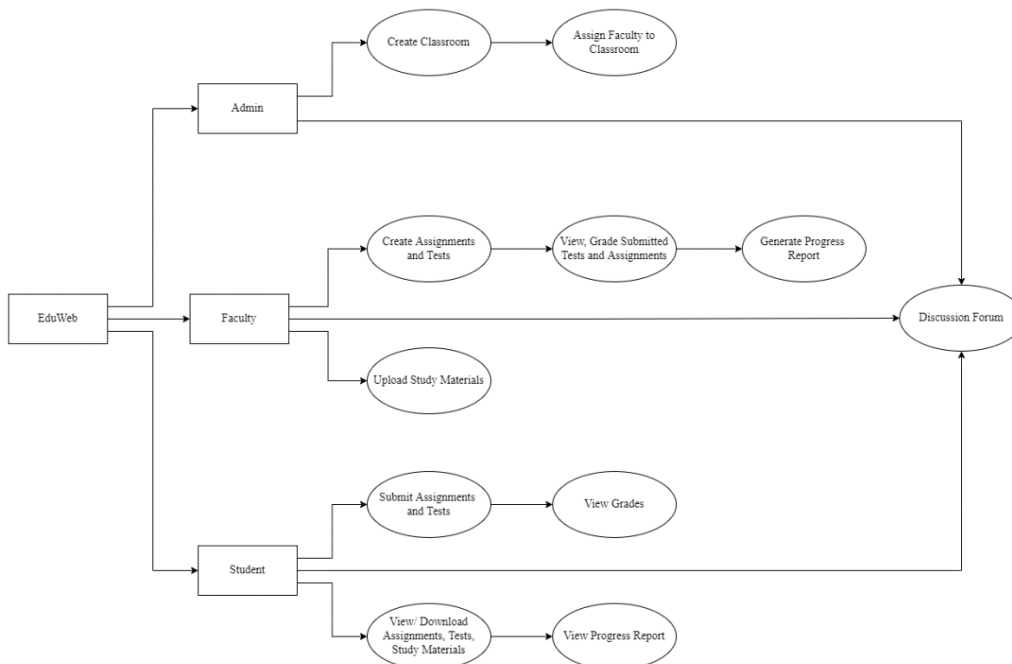


Fig 2. Data Flow Diagram

3. Use Case Diagram

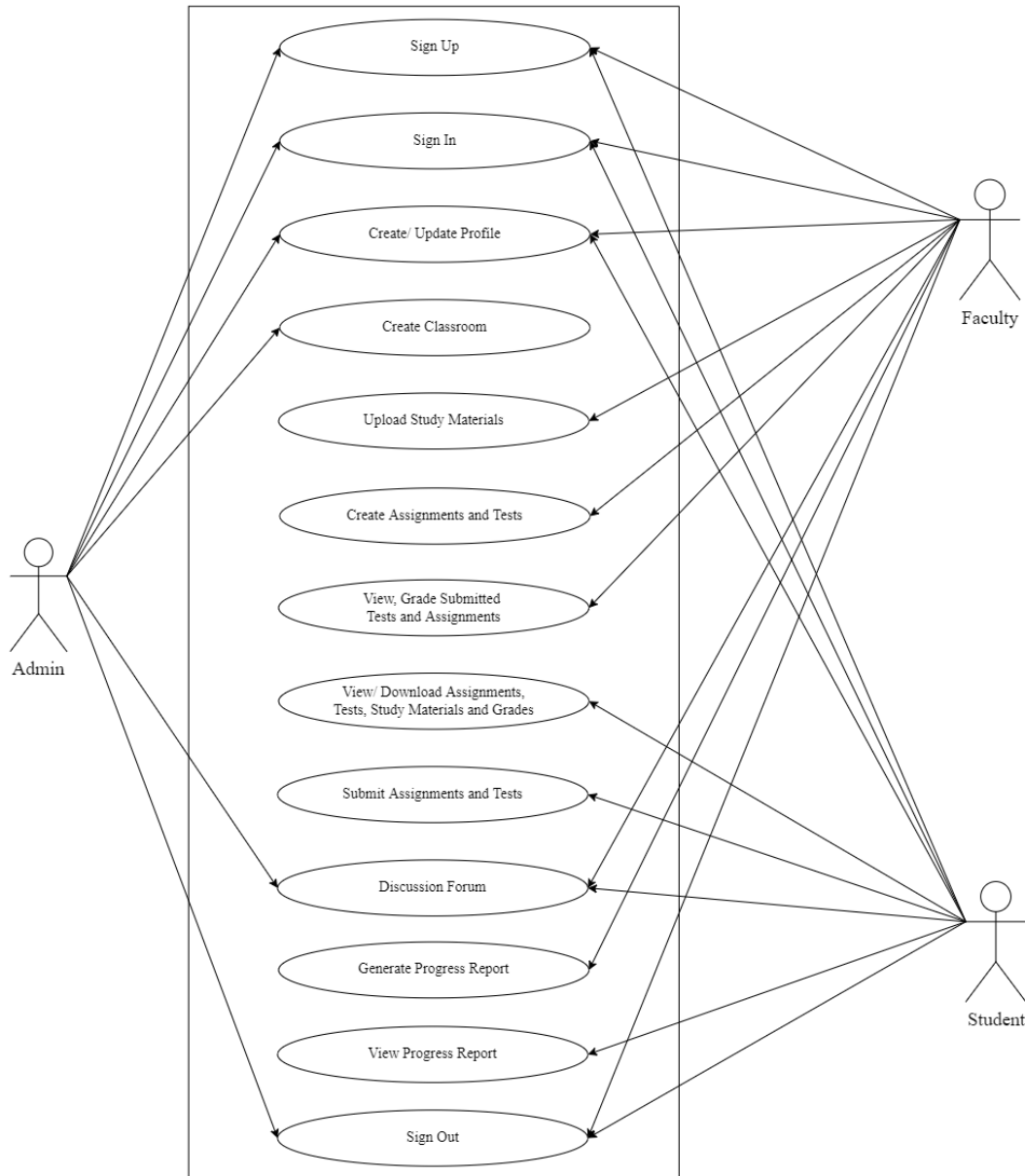


Fig 3. Use Case Diagram

First, the user will log in/Sign up as either Student or Teacher where they can see their respective dashboards. Admin dashboard is created automatically.

The architecture consists of three modules:

A. Admin Module

The Admin Module is one of the most important modules in EduWeb. It aids both students and faculty in the registration process. Admin keeps track of the number of subjects and teachers assigned to them, as well as the number of students enrolled in a class.

B. Student Module

Students can view all of the courses in which they are enrolled, as well as the assignments and tests, in this module. Following the evaluation of the assignment, test students can view their score for the respective assignment and receive a cumulative result at the end of the semester. Students can also download and view the study materials provided by their



respective subject teachers. They can also use the provided discussion forum to post questions about the subject of assignments.

C. Teacher Module

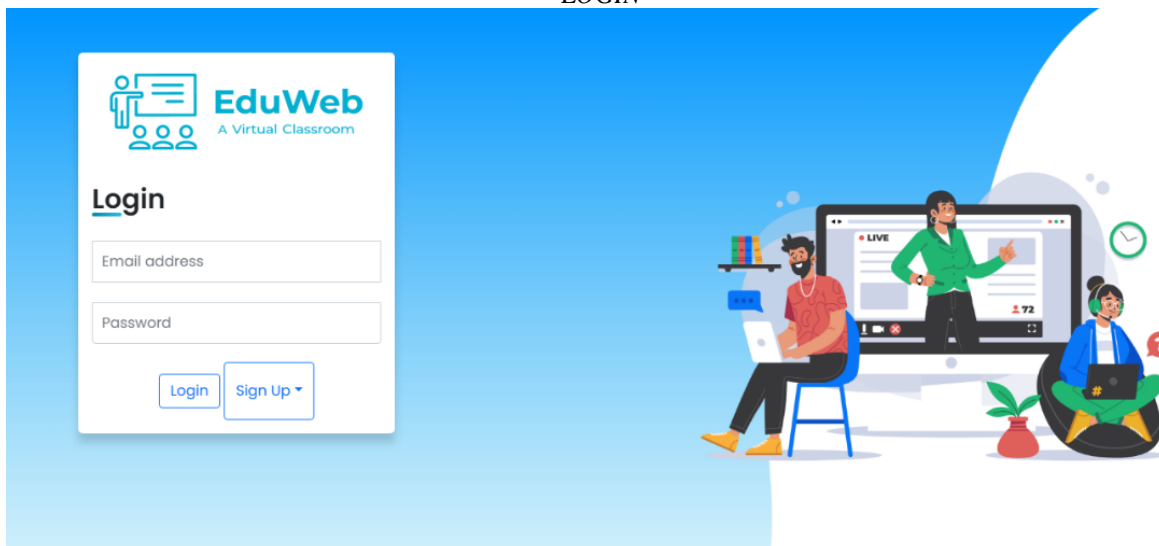
The teacher can view the number of subjects assigned to them in this module, as well as the number of students enrolled in a specific subject. They can also upload study materials, tests, and assignments, and the teacher will grade the assignments and assign grades accordingly.

IV. LIMITATIONS

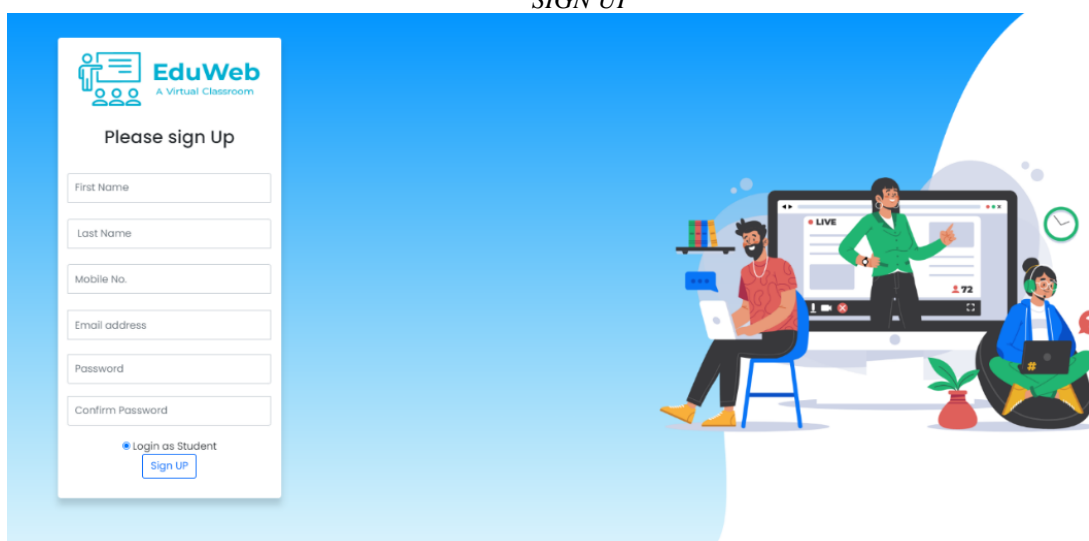
1. Less Integration Facility: This application does not support Google Calendar. This could cause issues with monitoring assignments or quizzes.
2. No Automated Updates: Because activities do not update automatically, we must refresh frequently to receive all updates.
3. Difficult Learner Sharing: Unless students become 'owners,' they cannot share their work with other students. This facility is only available to teachers.

V. OUTPUT

LOGIN



SIGN UP





ADMIN MODULE:

Subject Name	Request for Teach	Action
Python	Amit singh	Approve decline
operating system	Amit singh	Approve decline

Subject Name	Assigned Teacher
java	Radhe yadav
hindi	sanjay yadav
sanskrit	Amit singh

ID	Name	Email	Action
37	Reena Bardeskar	reena@gmail.com	Allow Deny

ID	Name	Email	Status	Action
17	sarita yadav	sarita@gmail.com	Active	Delete
22	rashu yadav	rashu@gmail.com	Active	Delete
24	Sandhya Yadav	sandhya@gmail.com	Active	Delete

TEACHER MODULE:

Subject ID	Subject Name	View
17	sanskrit	view class

Subject ID	Subject Name	Action
25	Python	Pending
26	operating system	Pending
27	computer network	Request to Teach



Upload Assignment

Assignment Title

Maximum Marks

Due Date and Time

Upload File

No file chosen

Classroom [Upload Assignment](#) [View Assignment](#) [Logout](#)

List of Students Enrolled For This Class

student id	Studen Name	Status	Action
15	sarita yadav	Enrolled	
25	radha yadav	Enrolled	
26	Tanishq jena	Enrolled	

Classroom

View Assignment

Roll Number	Studen Name	Assignment File	Marks	Give Marks
15	radha yadav	<input type="button" value="download"/>	80	<input type="button" value="Update"/>

STUDENT MODULE

Classroom [Logout](#)

Subject ID	Subject Name	Link
10	java	<input type="button" value="View"/>
12	hindi	<input type="button" value="View"/>
17	sanskrit	<input type="button" value="View"/>
25	Python	<input type="button" value="Pending"/>
27	computer network	<input type="button" value="Enroll"/>
28	cyber security	<input type="button" value="Enroll"/>
29	DBMS	<input type="button" value="Enroll"/>
30	HTML	<input type="button" value="Enroll"/>



Classroom Logout

Assignment ID	Assignment	View
14	assi	view Assignment
16	sanskrit assignment 1	view Assignment
17	sanskrit ass 2	view Assignment
18	sanskrit final ass 3	view Assignment
19	final submission mock test assignment	view Assignment

Classroom Logout

Assignment List

Title	Due Date	Total Marks	Assignment File	Upload View
java inheritance	Nov 29, 2021	100	Download	Submit Assignment
project submission	June 1, 2022	100	Download	Submit Assignment
java multithreading	May 29, 2022	100	Download	Submit Assignment

Due date Expire

Assignment Name	Due Date	Assignment Status	Marks
java inheritance	Nov 29, 2021	Checked	90

VI. CONCLUSION

Working on this exciting project has been a real pleasure for us. This application was created to help the institute's workload as well as remote learning students. It is advantageous to all educational institutes because it saves time and makes it simple to keep records, access study materials, tests, and assignments online, and provides an additional forum for discussion of doubts, among other things. Only the authorized person (admin) performs maintenance, and it is paperless work that can be monitored and controlled remotely.

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