
SOFTWARE ENGINEERING

PROJECT TITLE: Assignment Portal

Group L:

Bharath Chanthala
Udayakumar Manjunath
Vinay Sampath Kumar Vudumula

Description

The Assignment Portal is a tool that allows teachers and students in an educational institution to manage assignments more efficiently. The portal incorporates numerous essential elements that are suited to the needs of the system's various user roles. It aims to recreate the assignment submission process such as in Moodle with an additional feature of sending automated reminder emails.

Features

1. User Roles and Login:

- **Admin (Professor):** Has read-only access and can view all assignments, grades, and discussions.
- **Assistant Professor:** Responsible for grading assignments, uploading assignment tasks, setting deadlines, and participating in discussions.
- **Student:** Can upload assignments, participate in discussions, and view assignment task details, grading

2. File Upload and Storage:

- Assistant professors and students can upload their respective assignment files. File size limits are enforced to prevent excessive resource consumption.

3. Grading System:

- Indicates pass or fail for submitted assignments.

4. Timer for Submission:

- Includes a timer for assignment deadlines.

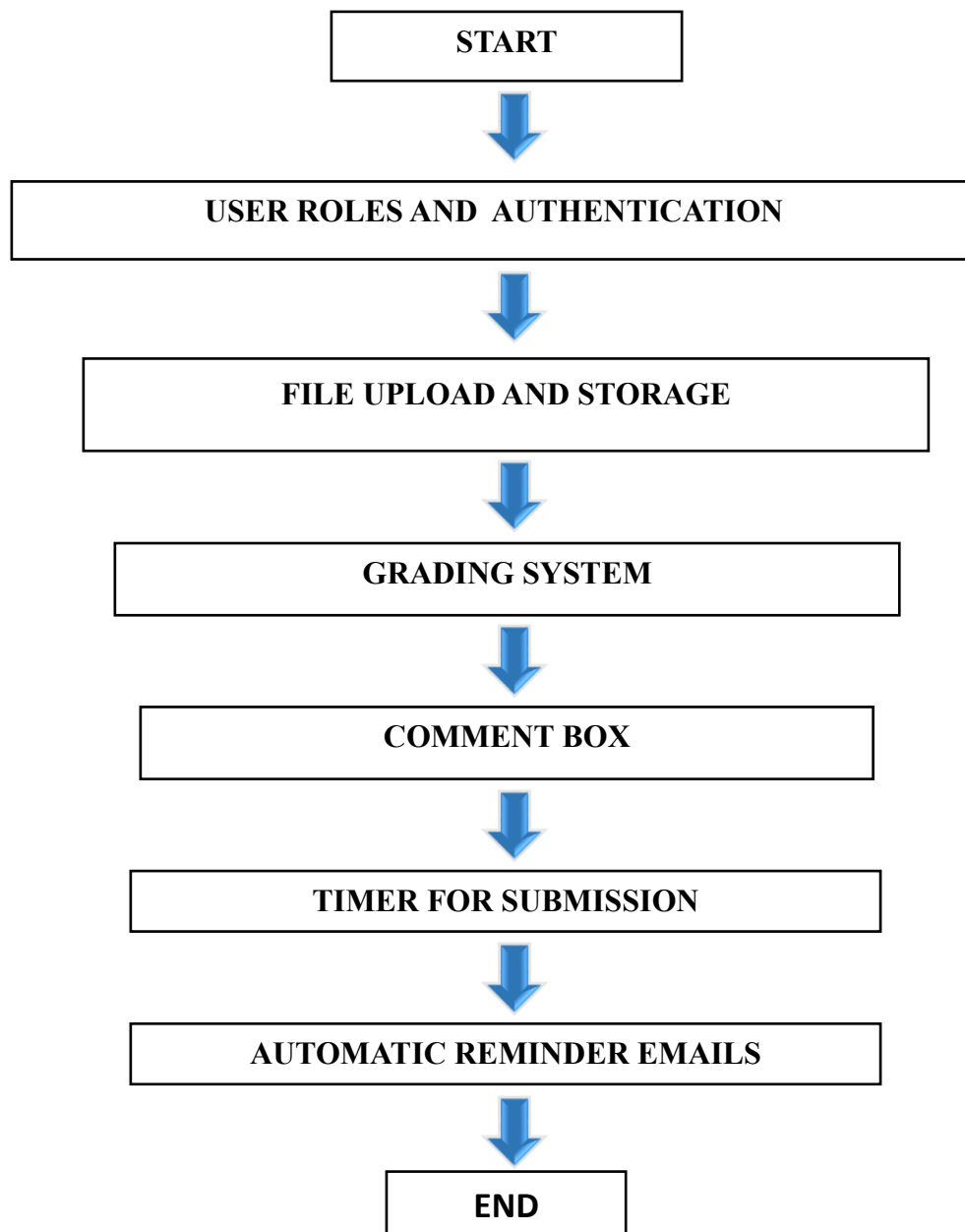
5. Comment Box:

- Allows students to post questions or doubts, which professors can answer.

6. Automatic Reminder Emails:

- Scheduled reminders are sent to students as deadlines approach, helping them stay organized and submit assignments on time.
- Assistant professors receive notifications for pending grading tasks, ensuring that assignments are assessed promptly and feedback is provided promptly.





Implementation details



Implementation Difficulty Levels for Key Features of the Assignment Portal

- **Easy:** Implementing the features User Roles & Authentication and Grading system are easy and doesn't require complex code.
- **Moderate:** Implementing a Timer for Submission and a Comment box are at a moderate level.
- **Difficult:** We think that implementing the feature **File Upload and Storage** is difficult as it requires unique identifiers to both students and professors and creating directories or folders for each user based on their unique identifiers. Also implementing **Automatic Reminder Emails** is a complex task as it involves integration with email services.

Tools required

1	Programming Language	
2	IDE	
3	Git Hub	
4	Gradle	
5	CSV File	