TEZPUR UNIVERSITY

ASSAM

PROJECT I

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**2**. **System Features and Design**

The software is built on Nodejs server built on windows operating system. The system also implements a database design which uses MongoDB database, a non-relational database known for its efficient and diverse nature. The frontend of the web app is built using REACT, HTML and CSS. The main features of the system and its implementations will be discussed in detail in the following sections.

**2.1Features: From a User’s Perspective**

Three types of users typically handle different tasks in assignment management: administrators, instructors, and students. For an administrator, the main tasks are database clean-up and database initialization. Database initialization includes course schedule and instructor information initialization. For an instructor, the main tasks are: *setting up a syllabus*, which includes all the information related to grading criteria; posting assignments; monitoring assignment submission status; grading; checking class academic status; and searching student information. For a student, tasks include checking posted homework assignments, uploading solutions, and checking personal. All users access the system via a login page, which is shown in Figure 1. Upon logging in, the system automatically executes user identification validating process. If both the user’s name and password are considered valid, the user enters the system. Otherwise, an error message will prompt the user to attempt the login process again.

Sure, here's a sample SRS document for an Assignment Management System:

Introduction

The Assignment Management System is an online platform designed to help instructors manage assignments and track student progress. The purpose of this document is to provide a comprehensive description of the requirements and specifications for the development of the Assignment Management System.

Scope

The Assignment Management System will provide the following functionalities:

Instructors can create and manage assignments, including setting due dates and assignment descriptions.

Students can access and submit assignments through the online platform.

Instructors can view and grade student submissions.

Students can view their grades and feedback on assignments.

Instructors can generate reports on student progress and assignment statistics.

Functional Requirements

3.1 User Registration and Login

The system shall allow users to register and create accounts with their email address and a password.

The system shall allow users to log in to their account with their email address and password.

3.2 Instructor Functionalities

The system shall allow instructors to create and manage assignments.

Instructors shall be able to set the due dates and assignment descriptions.

Instructors shall be able to view student submissions and grade them.

Instructors shall be able to generate reports on student progress and assignment statistics.

3.3 Student Functionalities

The system shall allow students to access and submit assignments through the online platform.

Students shall be able to view their grades and feedback on assignments.

3.4 Assignment Management

The system shall allow instructors to assign and manage assignments.

The system shall allow instructors to create assignment descriptions and set due dates.

The system shall allow students to access and submit assignments through the online platform.

3.5 Grading System

The system shall allow instructors to grade student submissions.

The system shall allow instructors to provide feedback on student submissions.

The system shall allow students to view their grades and feedback on assignments.

3.6 Reporting System

The system shall allow instructors to generate reports on student progress and assignment statistics.

The system shall allow instructors to export reports in a CSV format.

Non-Functional Requirements

4.1 Usability

The system shall be easy to use and navigate for both instructors and students.

The system shall be accessible to users with disabilities.

4.2 Performance

The system shall be able to handle multiple users simultaneously.

The system shall be able to process assignments and submissions in a timely manner.

4.3 Security

The system shall use secure authentication methods to protect user accounts.

The system shall use secure transmission protocols to protect user data.

Constraints

The system shall be developed using PHP and MySQL.

The system shall be accessible through popular web browsers.

The system shall be hosted on a web server.

Assumptions and Dependencies

The system assumes that users have access to an internet connection and a web browser.

The system depends on the availability of a web server and a database management system.