



Mukesh Patel School of Technology Management and Engineering, Mumbai

Course Review Website

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Project Overview

Purpose

The purpose of this project is to build an online system for course reviewing to better help students understand their courses.

Intended Audience and Intended Use

This project is a prototype for a course review system and it is restricted within the college premises/users. This has been implemented under the guidance of college professors. This project is useful for the students to decide their elective subjects/academic paths and also for faculty members who are involved in offering the electives and need to manage schedules, enrollments, etc.

Product Scope

This project offers tremendous utility as well as monetary scope. This product can be scaled up and generalised to create a boilerplate review system that colleges, besides MPSTME, can purchase and implement (e.g., Moodle CMS). Additionally, there is potential for monetization through the acquisition and sale of user (student) activity data to EduTech platforms like Udemy, Coursera, and UpSkill. This data can be utilised to present targeted advertisements for online courses that may interest users.

Software Requirements

MongoDB : MongoDB, a powerful NoSQL database, excels in handling complex, unstructured data. Its flexible schema design allows for easy adaptation to evolving data structures, making it ideal for modern applications. With features like high scalability, high availability, and efficient querying, MongoDB is widely used in various domains, including content management systems, real-time analytics, IoT applications, and more.

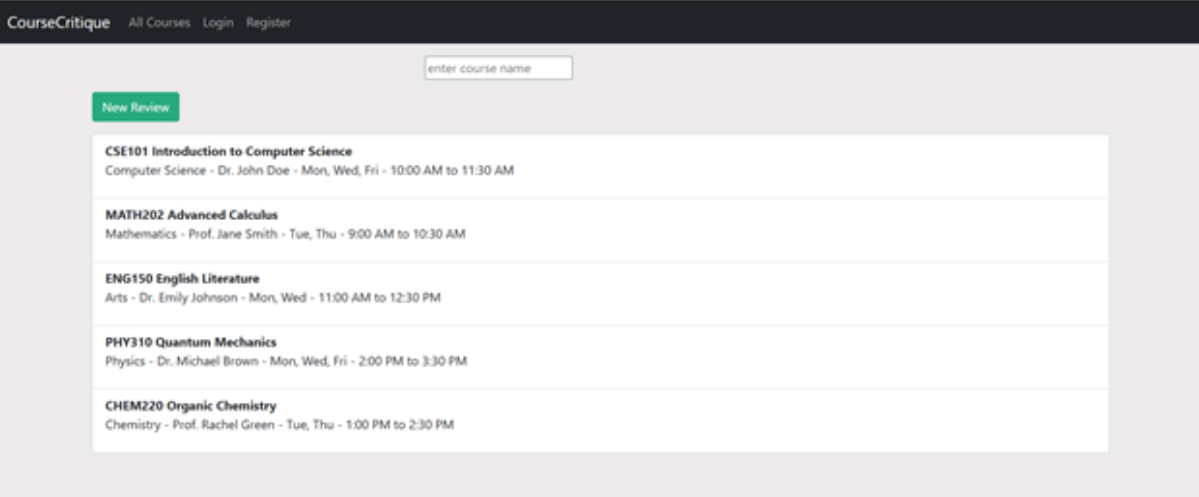
ExpressJS : Express.js is a minimalist and flexible Node.js web application framework that provides a robust set of features for building web and mobile applications. It's known for its simplicity, speed, and efficiency, making it a popular choice for developers. Express offers a streamlined approach to handling HTTP requests and responses, routing, middleware, and templating, allowing you to quickly create scalable and maintainable web applications.

ReactJS : React is a popular JavaScript library for building user interfaces, known for its component-based architecture and efficient rendering. It allows developers to create reusable UI components that can be easily combined to build complex applications. React's virtual DOM ensures optimised updates, making it a great choice for creating dynamic and interactive web applications.

NodeJS : Node.js is a powerful and versatile JavaScript runtime environment that allows you to build efficient and scalable server-side applications. It's built on Chrome's V8 JavaScript engine, known for its high performance. Node.js's asynchronous, non-blocking I/O model makes it ideal for handling concurrent connections and real-time applications. It's widely used for building web servers, APIs, command-line tools, and much more, often in conjunction with frameworks like Express.js.

Web Pages Overview

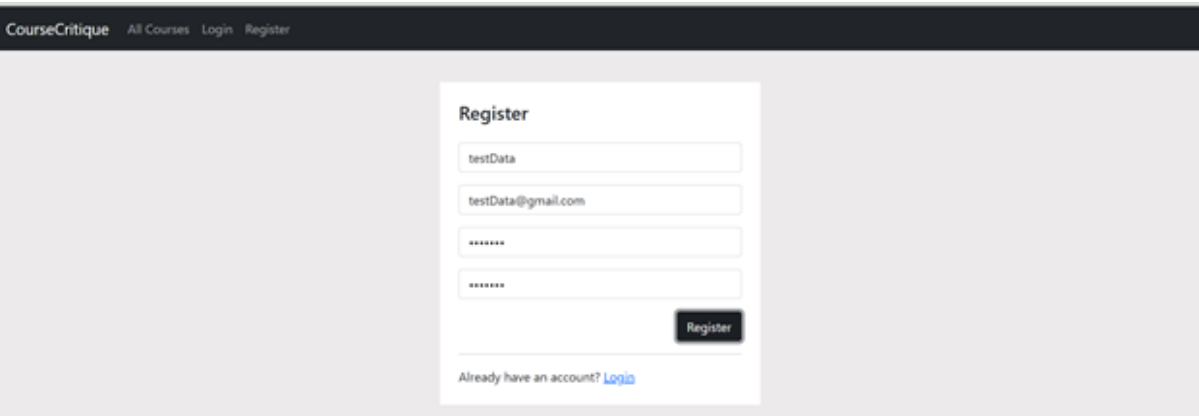
Home Page



The screenshot shows the home page of the CourseCritique website. At the top, there is a dark navigation bar with the text "CourseCritique" and links for "All Courses", "Login", and "Register". Below the navigation bar, there is a search bar with the placeholder text "enter course name". To the left of the search bar, there is a green button labeled "New Review". Below the search bar, there is a list of five courses, each with a title, instructor, and schedule. The courses are: CSE101 Introduction to Computer Science (Computer Science - Dr. John Doe - Mon, Wed, Fri - 10:00 AM to 11:30 AM), MATH202 Advanced Calculus (Mathematics - Prof. Jane Smith - Tue, Thu - 9:00 AM to 10:30 AM), ENG150 English Literature (Arts - Dr. Emily Johnson - Mon, Wed - 11:00 AM to 12:30 PM), PHY310 Quantum Mechanics (Physics - Dr. Michael Brown - Mon, Wed, Fri - 2:00 PM to 3:30 PM), and CHEM220 Organic Chemistry (Chemistry - Prof. Rachel Green - Tue, Thu - 1:00 PM to 2:30 PM).

The welcoming interface presents a comprehensive view of all available courses while offering intuitive navigation options. Users can easily search through the course catalogue using the name-based search functionality, and they have the opportunity to contribute their insights by adding new reviews through a dedicated button. This streamlined layout ensures a seamless experience for users exploring the educational offerings.

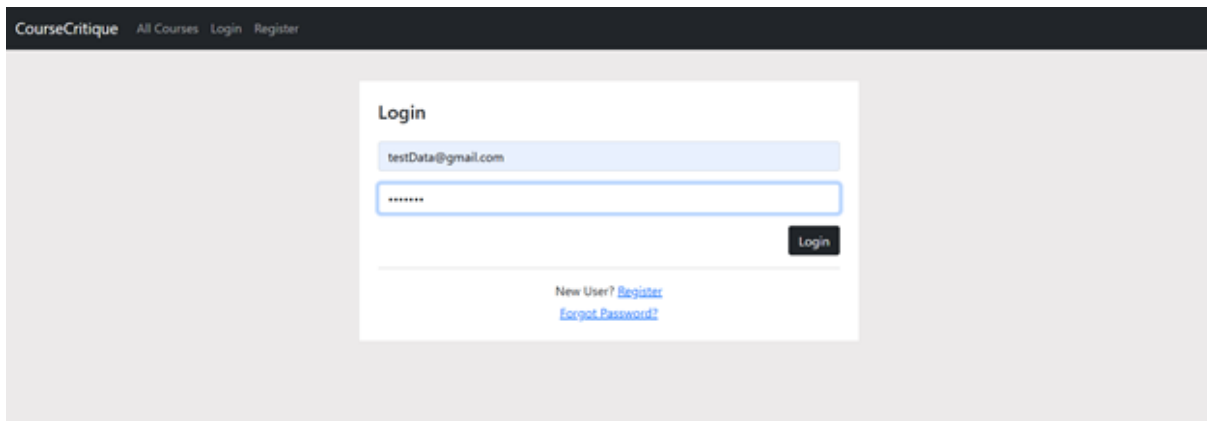
Register Page



The screenshot shows the registration page of the CourseCritique website. At the top, there is a dark navigation bar with the text "CourseCritique" and links for "All Courses", "Login", and "Register". Below the navigation bar, there is a white registration form. The form has a title "Register" and four input fields: a text field for "testData", a text field for "testData@gmail.com", a password field with "*****" as a placeholder, and a confirm password field with "*****" as a placeholder. Below the input fields, there is a dark button labeled "Register". At the bottom of the form, there is a link that says "Already have an account? [Login](#)".

The registration portal provides a straightforward pathway for newcomers to join our community. Through this dedicated interface, prospective users can create their personal accounts and establish their presence in the system. The streamlined process enables smooth user registration, making it effortless for individuals to become active members of the platform.

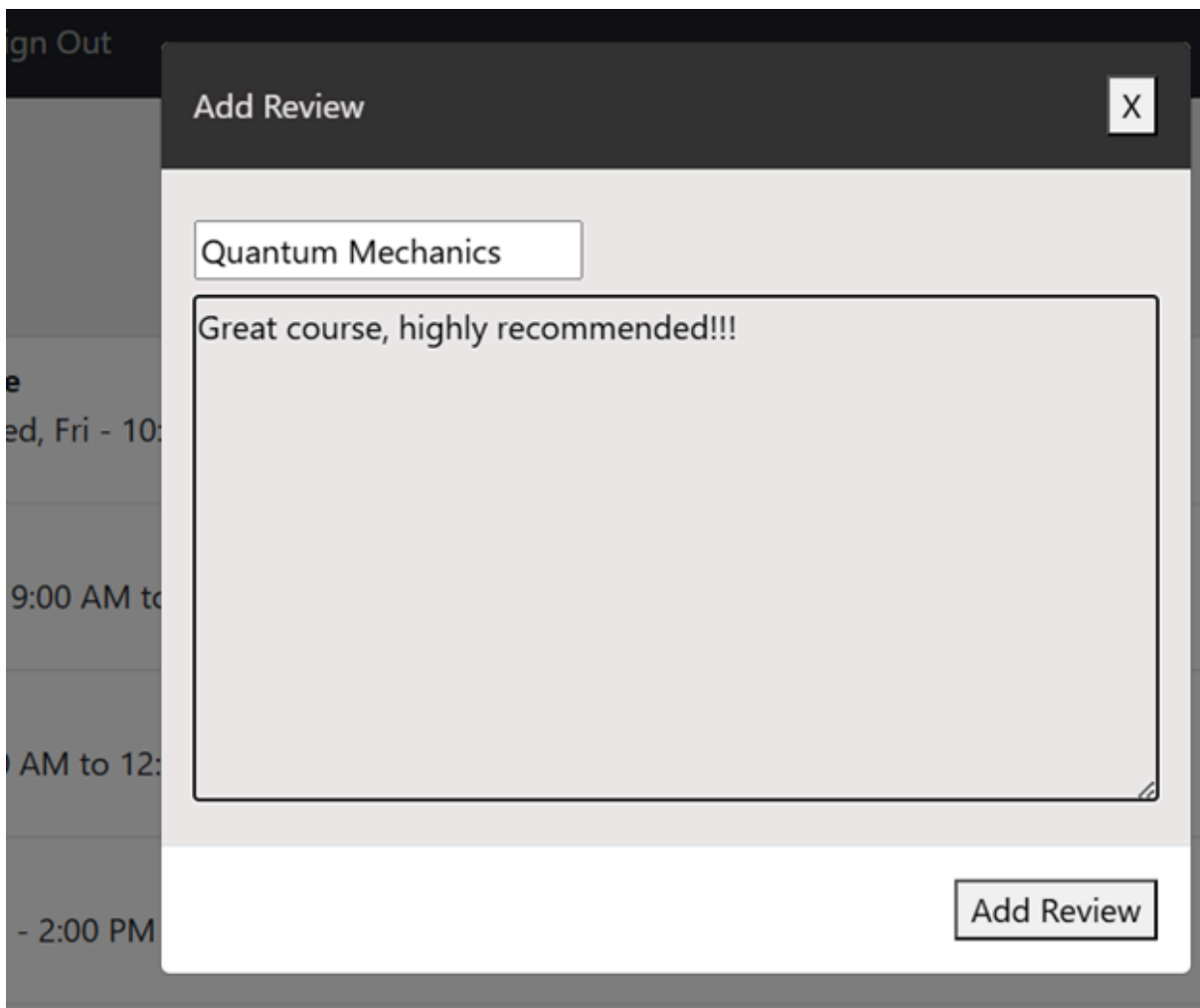
Login Page



The screenshot shows the login page of CourseCritique. At the top, a dark navigation bar contains the text "CourseCritique" and links for "All Courses", "Login", and "Register". The main content area is light gray and features a white login box. Inside the box, the word "Login" is at the top. Below it are two input fields: the first contains the email "testData@gmail.com" and the second contains masked characters "*****". A black "Login" button is positioned to the right of the password field. At the bottom of the box, there is a link "New User? Register" and another link "Forgot Password?" below it.

The login gateway serves as a secure entry point for existing members to access their accounts. Through this authenticated interface, registered users can seamlessly reconnect with the platform using their established credentials. This dedicated access point ensures a smooth return experience for all members of our community.

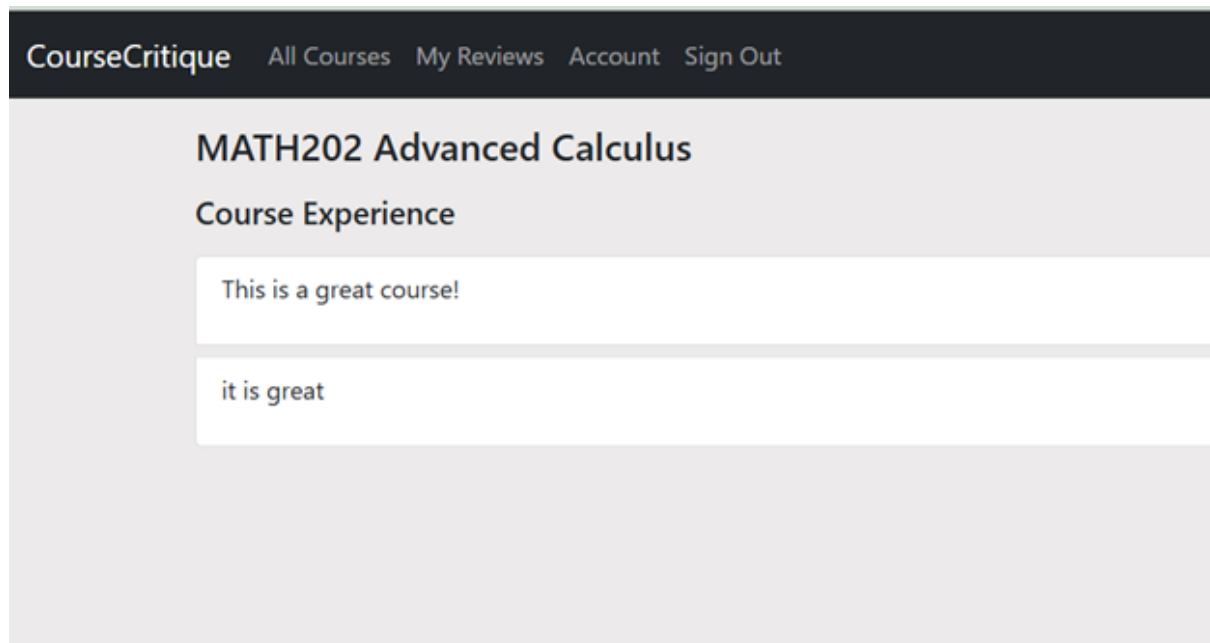
Add Review Page



The screenshot shows a modal window titled "Add Review" with a close button (X) in the top right corner. The modal has a light gray background. At the top, there is a text input field containing "Quantum Mechanics". Below this is a large text area with the text "Great course, highly recommended!!!". At the bottom right of the modal, there is a button labeled "Add Review". The background of the page is dark gray and partially obscured by the modal.

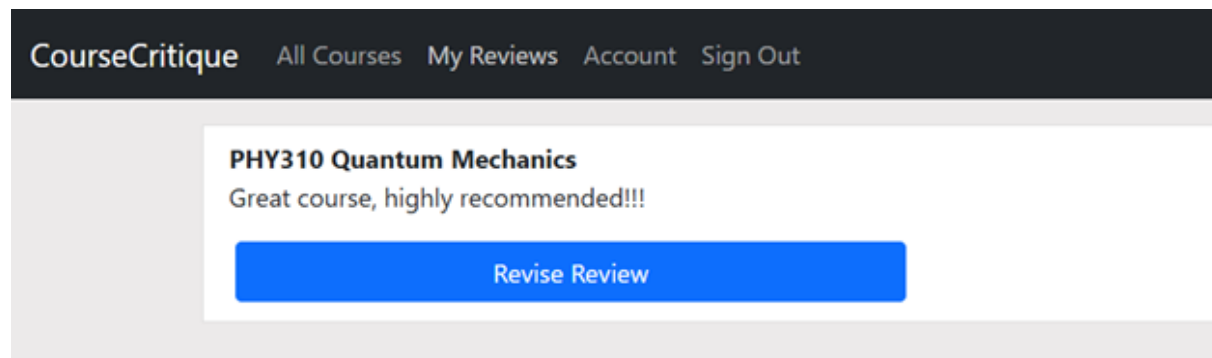
The review submission interface empowers users to share their valuable experiences and insights about specific courses. Through this dedicated portal, members can select their chosen course from the catalogue and articulate their thoughts, creating meaningful feedback that enriches the learning community. This interactive feature ensures that prospective students can benefit from authentic, user-generated course evaluations.

View Course Reviews Page



The course review dashboard serves as a comprehensive repository where users can explore detailed feedback for any specific course of interest. This dedicated section enables learners to access authentic insights and experiences shared by fellow students, providing valuable perspectives on their chosen course. Through this transparent viewing interface, prospective students can make well-informed decisions based on the collective wisdom of the learning community.

Update Your Review Page



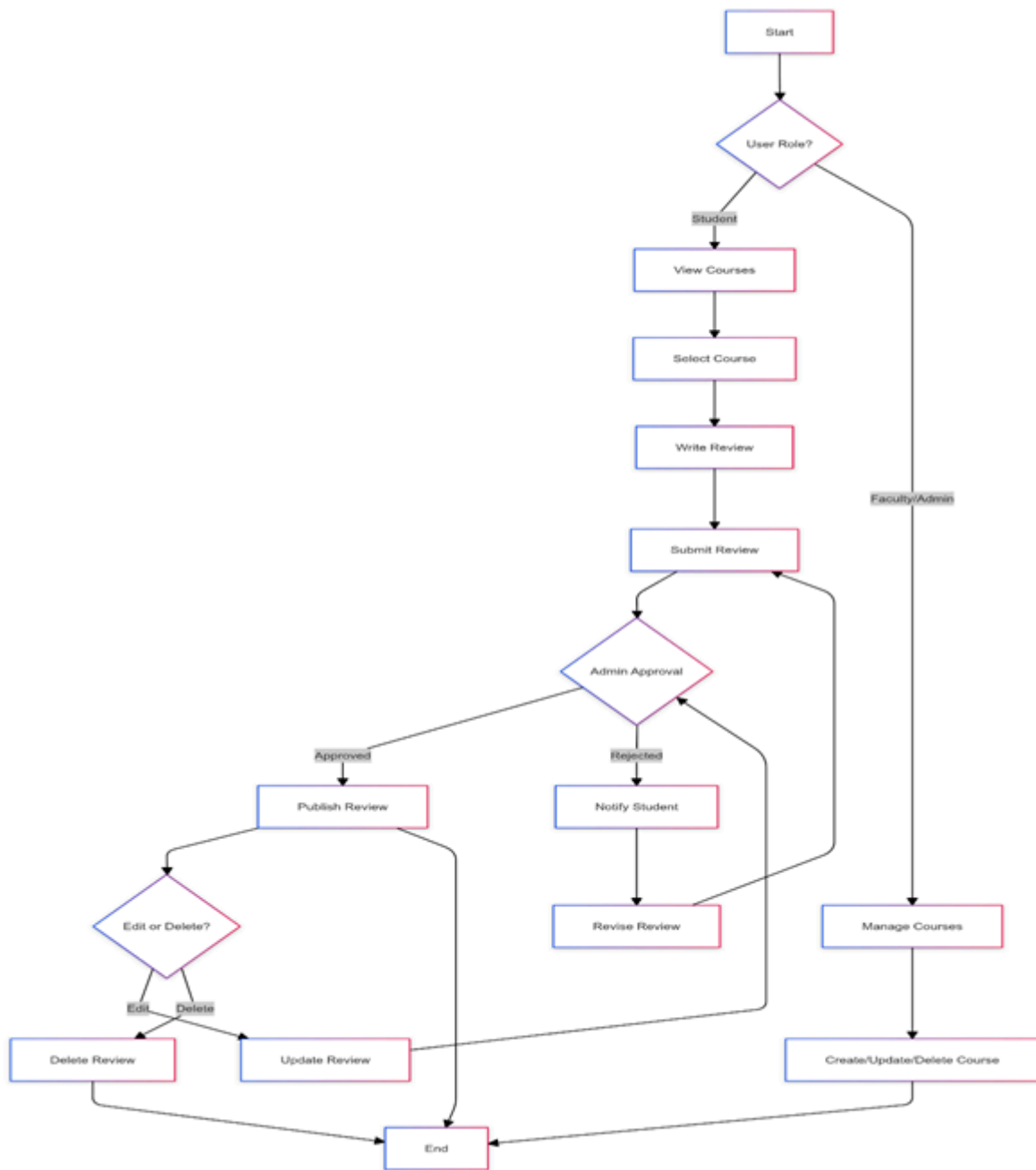
The review modification interface provides users with the flexibility to refine and revise their previously submitted course feedback. This thoughtfully designed section empowers members to update their existing reviews, ensuring their documented experiences remain current and accurate. Through this dynamic platform, users can easily adjust their perspectives, reflecting any changes in their assessment of the course over time.

Databases and Diagrams

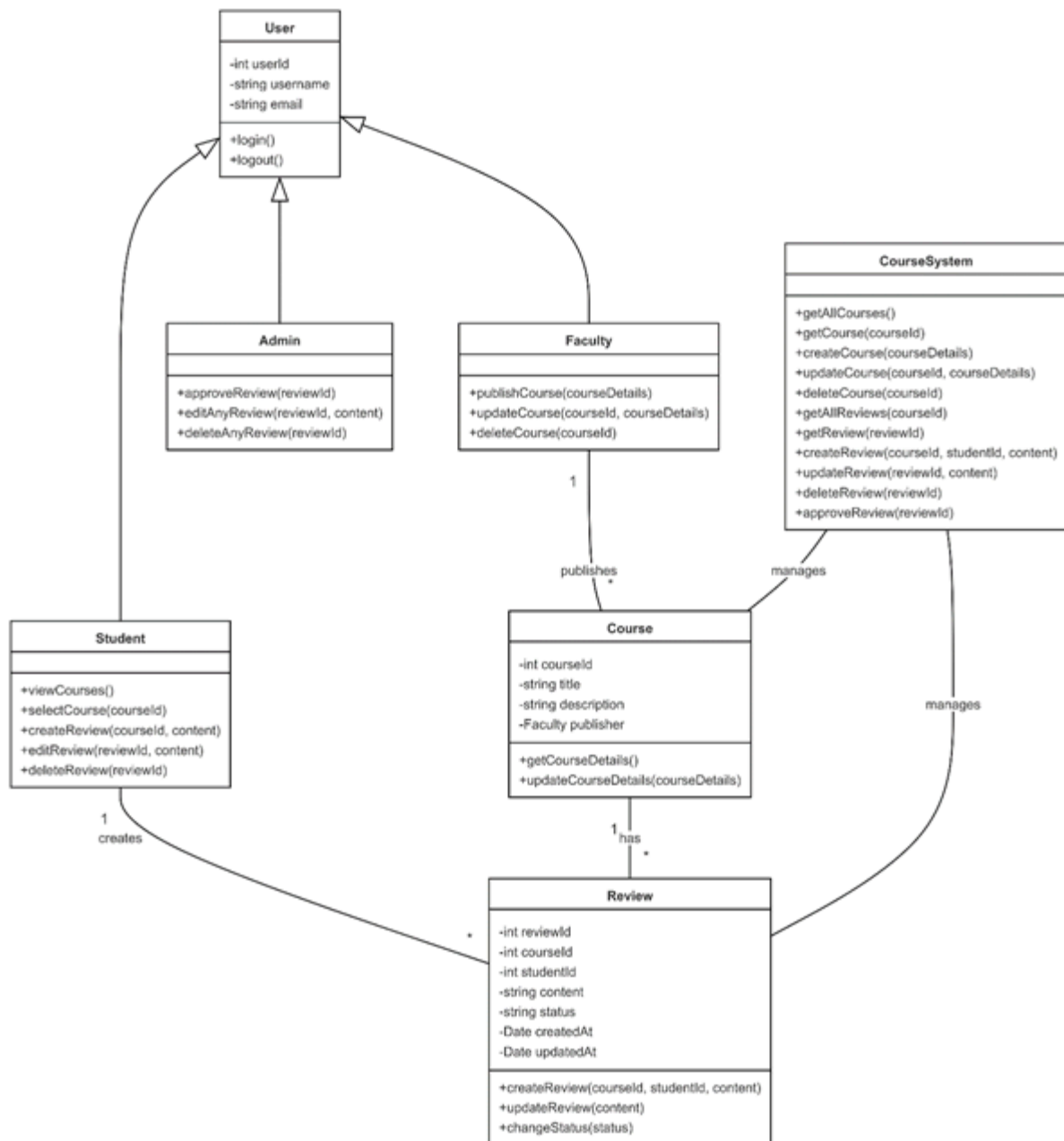
Use Case Diagram



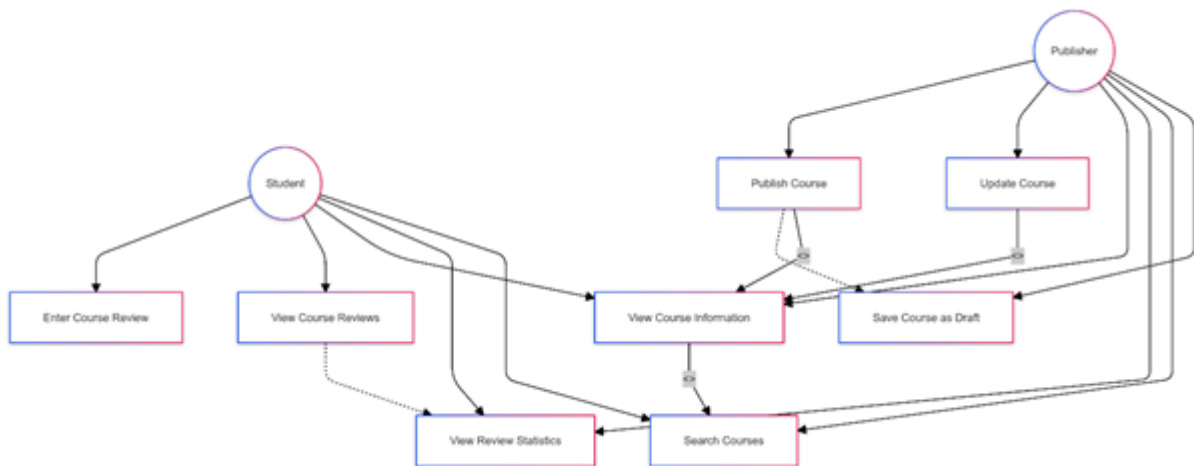
Activity Diagram



Class Diagram



State Diagram



Collaboration Diagram

