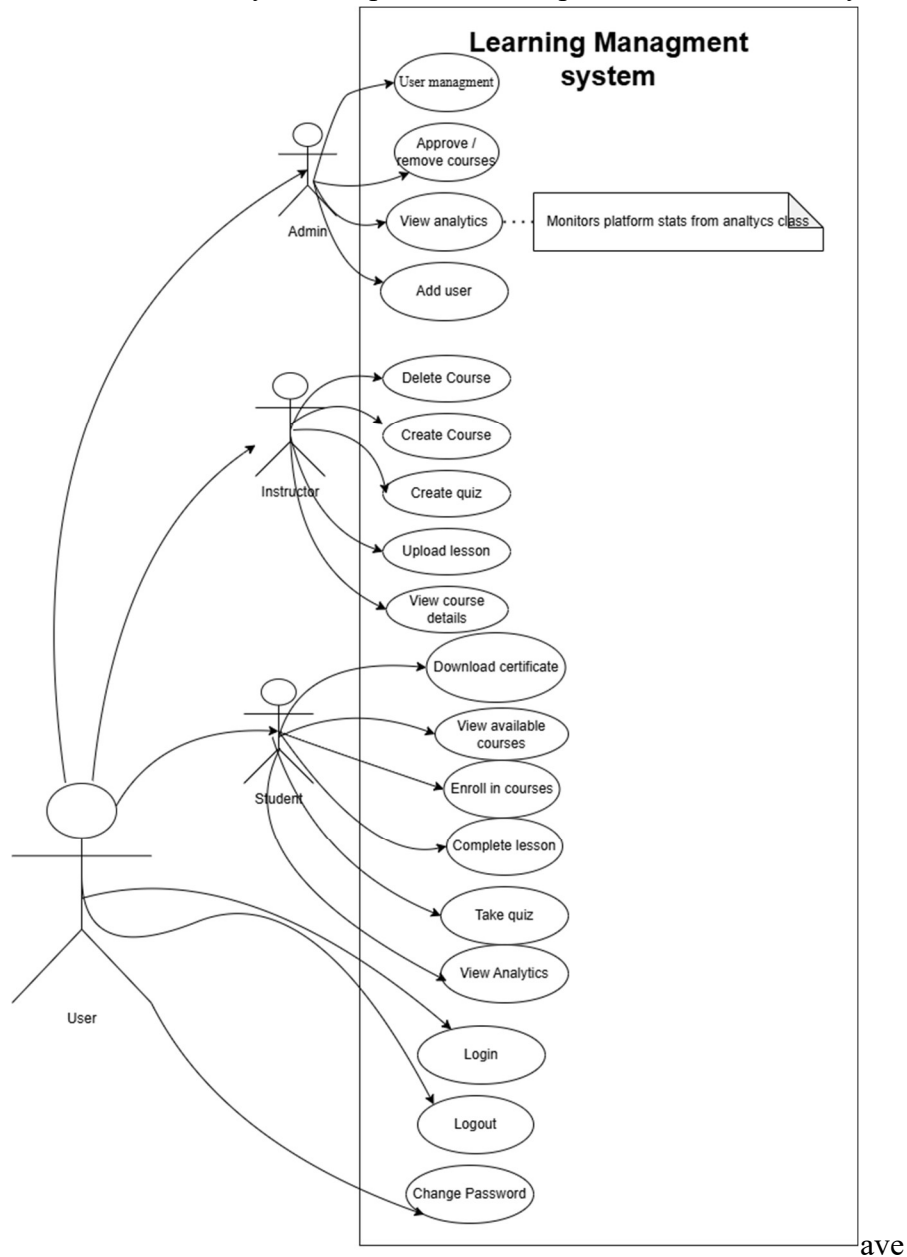


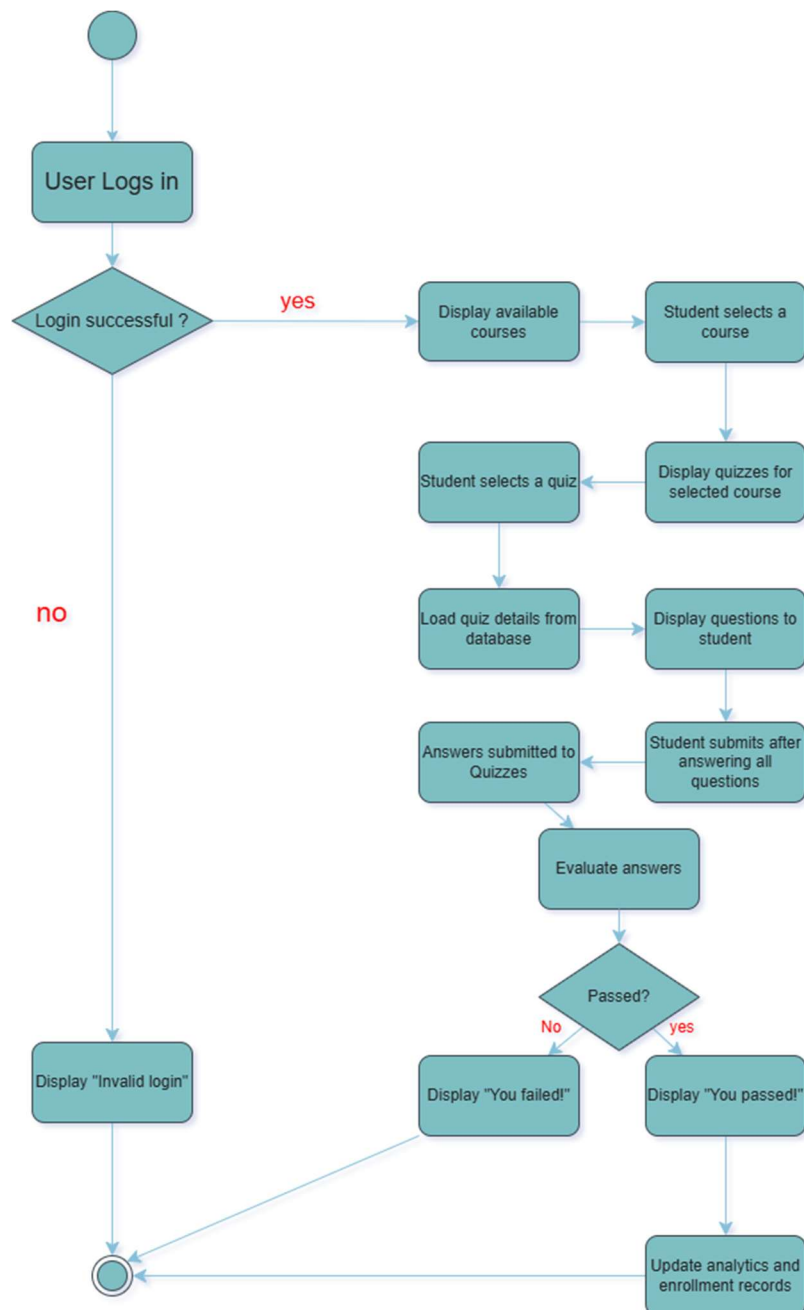
1. Use Case Diagram

The use case diagram illustrates how the Learning Management System connects admins, instructors, and students with various system functions. Admins manage users, courses, and analytics, while instructors create and upload lessons and quizzes. Students can enroll in courses, complete lessons, take quizzes, and download certificates. The diagram shows how each user interacts with the system to perform their specific tasks effectively



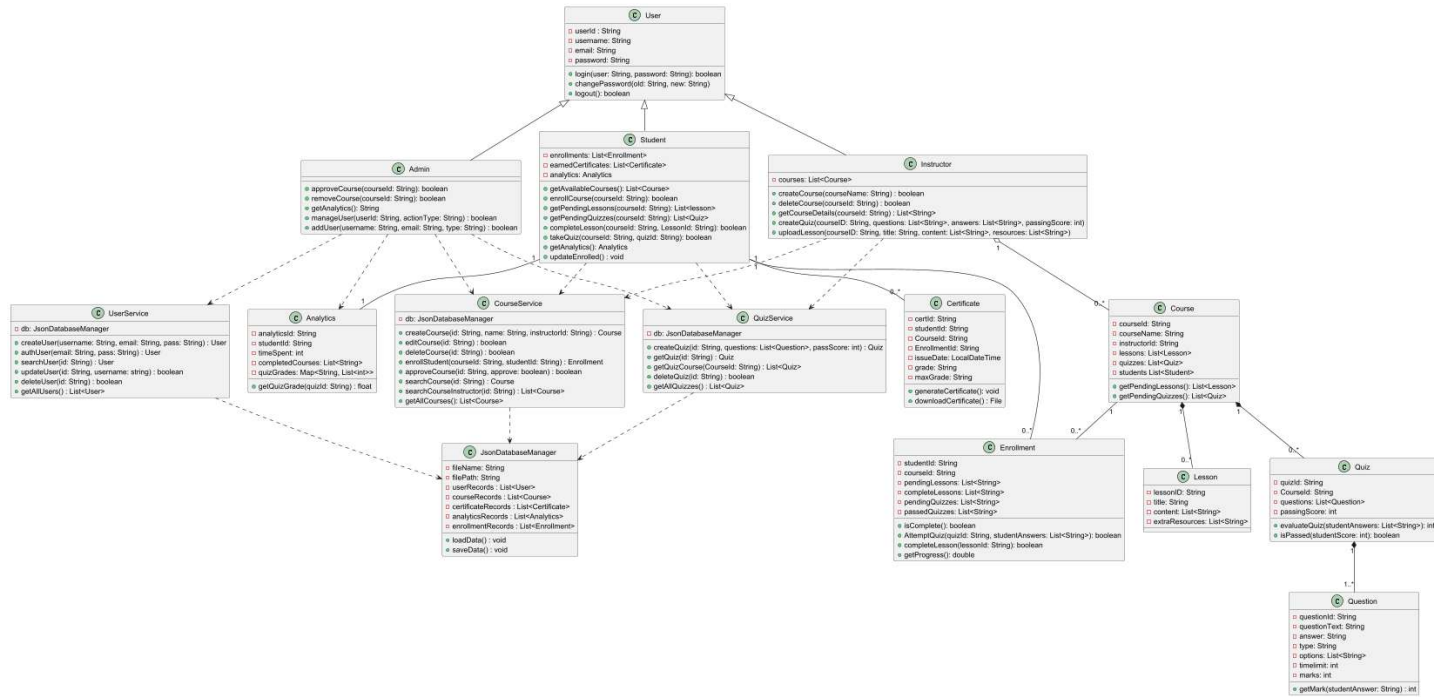
2. Activity Diagram

This activity diagram of a student taking a quiz shows the process of a student logging in, selecting a course, and taking a quiz on the SkillForge platform. After successfully logging in, the system displays the student's available courses and quizzes. Once the quiz is selected, answered and answers are submitted, the system evaluates the answers and checks if the student has passed or failed, displays the result and then updates the student's records.



3. Class Diagram

The class diagram is used to model the structure of a system by showing classes, their methods and their attributes, and the relations between different classes. It serves as a blueprint which team members can use while working on different parts of a project. It can also be used to identify any major flaws early on.



4. Sequence Diagram

This sequence diagram illustrates the interaction between a student and various system components while taking a quiz on the system. It begins with the student logging in, followed by the system verifying credentials. Upon successful login, the CourseService retrieves and displays available courses. The student selects a course, prompting the QuizService to fetch and present the associated quizzes. After choosing a quiz, the student attempts it, and the system evaluates the responses to determine a pass or fail outcome. Based on the result, the analytics are updated and saved, and the student is shown either a "PASSED!" or "FAILED!" message.

