COACHING

MANAGEMENT SYSTEM

PREPARED FOR

Taufiqul Islam Khan and
Kazi Kamruzzaman Rabbi

PREPARED BY

Group 5
Members:
1.Fahim Yareed (20101066)
2. Ishran Akber (20101036)
3. Rakib Hasan Rahad (20101010)

TABLE OF CONTENTS

Introduction:

In today's fast-paced world, technology has become an indispensable part of our lives. With the advancement of technology, schools and coaching centers are also adopting various online tools and systems to manage their day-to-day operations. The coaching management system is one such tool that has gained immense popularity in recent times.

The coaching management system is an online platform that automates and streamlines the administrative tasks of a coaching center. It includes features like attendance management, student information management, fee management, exam management, and so on. By implementing a coaching management system, institutions can save a lot of time and effort that would otherwise be spent on manual administrative tasks.

Going online with a coaching management system has several advantages over the traditional offline methods. Firstly, it provides easy access to information for the management, teachers, and students. Secondly, it reduces the workload of the administrative staff, allowing them to focus on other important tasks. Thirdly, it increases transparency and accountability, as all the data is stored online and can be accessed by authorized personnel at any time. Lastly, it improves communication between the coaching and parents, as parents can access important information about their child's academic progress and attendance on the system.

Implementing a coaching management system is a necessity for modern-day coaching centers. It not only simplifies the administrative tasks but also improves the overall efficiency and productivity of the learning process.

Functional Requirements:

User Management:

1. The system should have the capability to manage users
2. adding, modifying, and deleting users.

Student Information Management:

1. The system should allow the creation and modification
2. retrieval of student records, including personal and academic information.

Course Management:

The system should allow the creation, modification, and retrieval of courses, including course descriptions, schedules, and materials.

Attendance Management:

1. The system should allow the recording of student attendance
2. Daily attendance and absence reports.

Grading Management: The system should allow for the recording and calculation of grades, including weighted averages, test scores, and assignment scores.

Report Generation: The system should have the ability to generate reports, including student transcripts, attendance reports, and grade reports.

Communication: The system should provide a platform for communication between teachers, students, and parents, including the ability to send messages, notifications, and alerts.

Calendar Management: The system should allow the creation and management of calendars, including scheduling events, assignments, and tests.

Billing and Payment Management: The system should allow for the management of student billing and payments, including the generation of invoices and the tracking of payment status.

Data Backup and Recovery: The system should have the capability to backup and recover data in case of any data loss.

Non-Functional Requirements:

Performance: The system should have a fast response time and be able to handle large amounts of data efficiently.

Scalability: The system should be scalable to accommodate increasing numbers of users and data.

Security: The system should have a high level of security to protect sensitive data and prevent unauthorized access.

Usability: The system should have an intuitive and user-friendly interface that is easy to navigate and use.

Reliability: The system should have a high degree of reliability, with minimal downtime and errors.

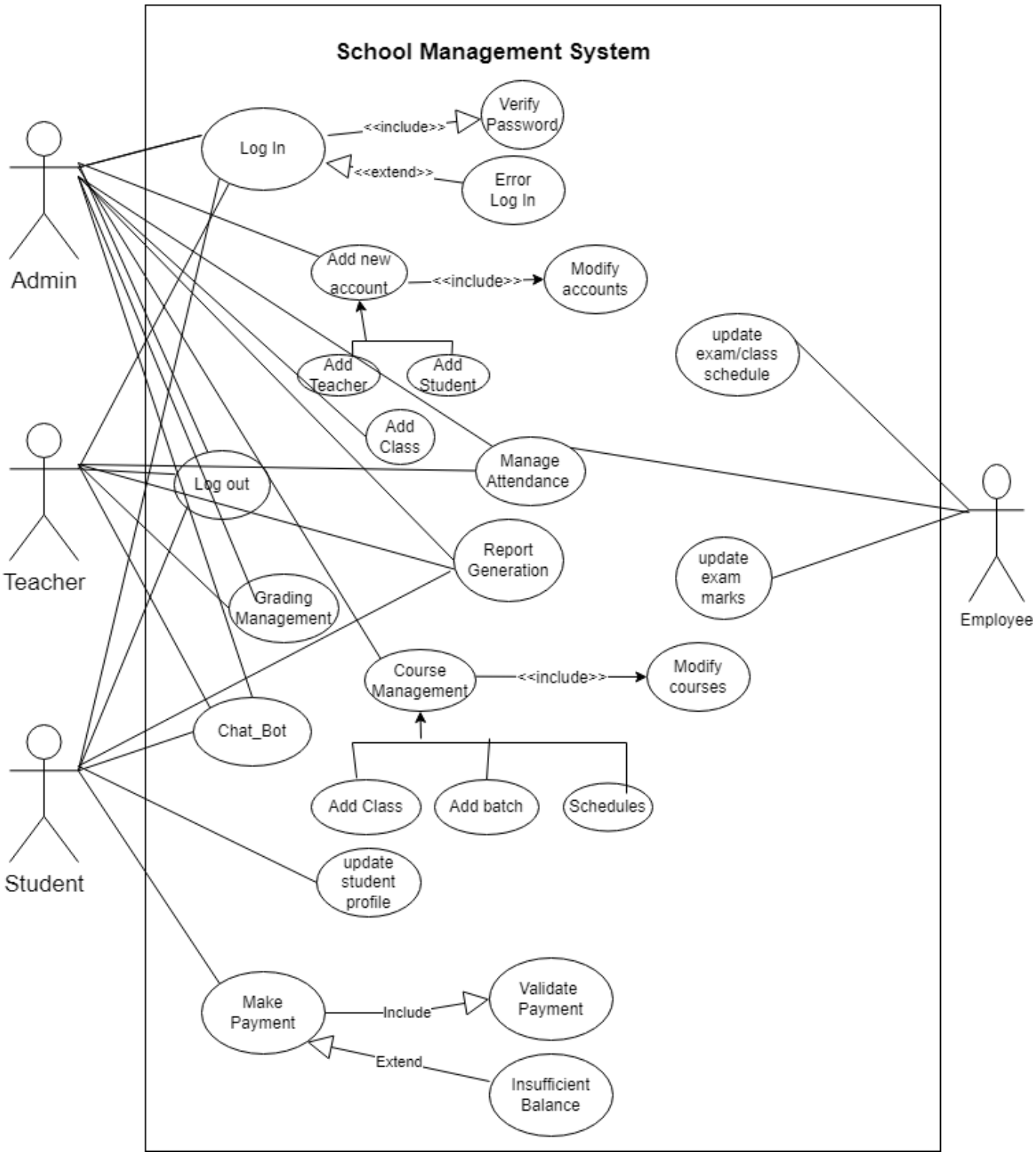
Accessibility: The system should be accessible from any device and location, and should be compatible with different browsers and platforms.

Data Integrity: The system should ensure the accuracy and consistency of data, and prevent data corruption or loss.

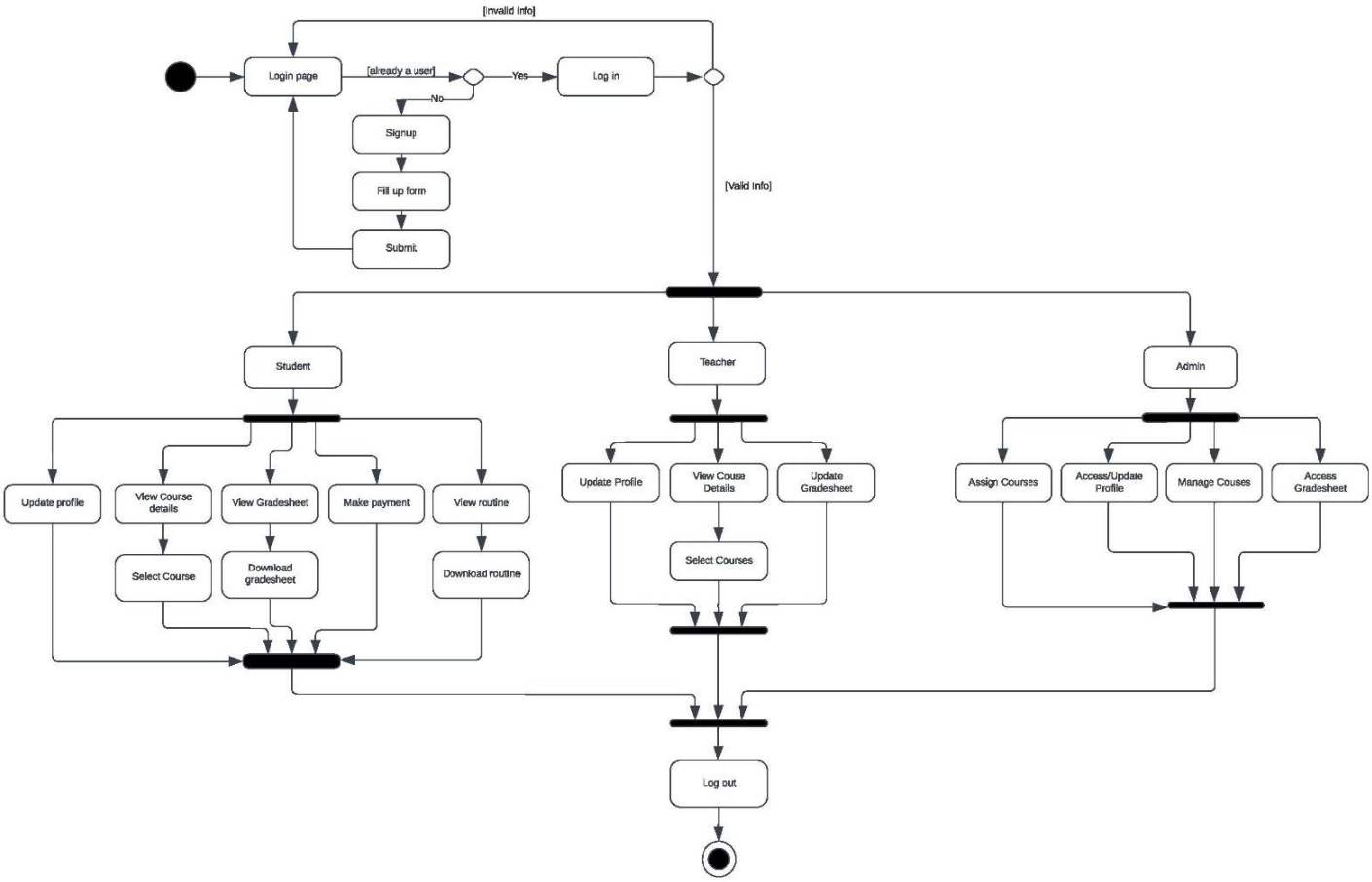
Compliance: The system should comply with relevant data privacy and security regulations and standards.

Support: The system should have a robust support mechanism, including a help desk, user manual, and FAQs.

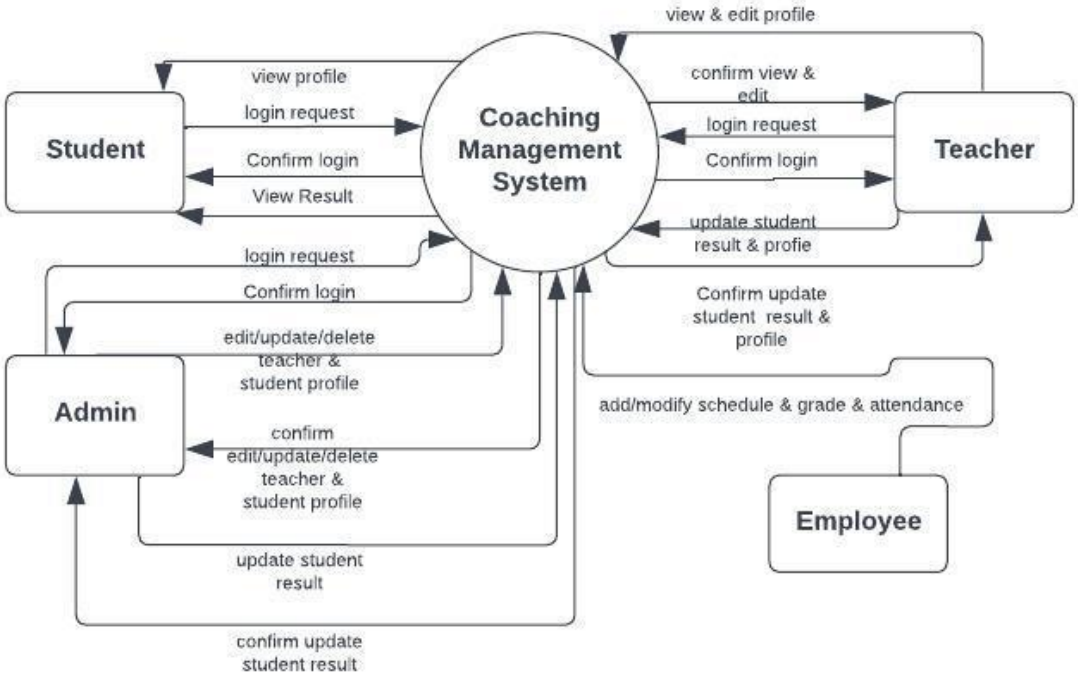
Use Case Diagram:



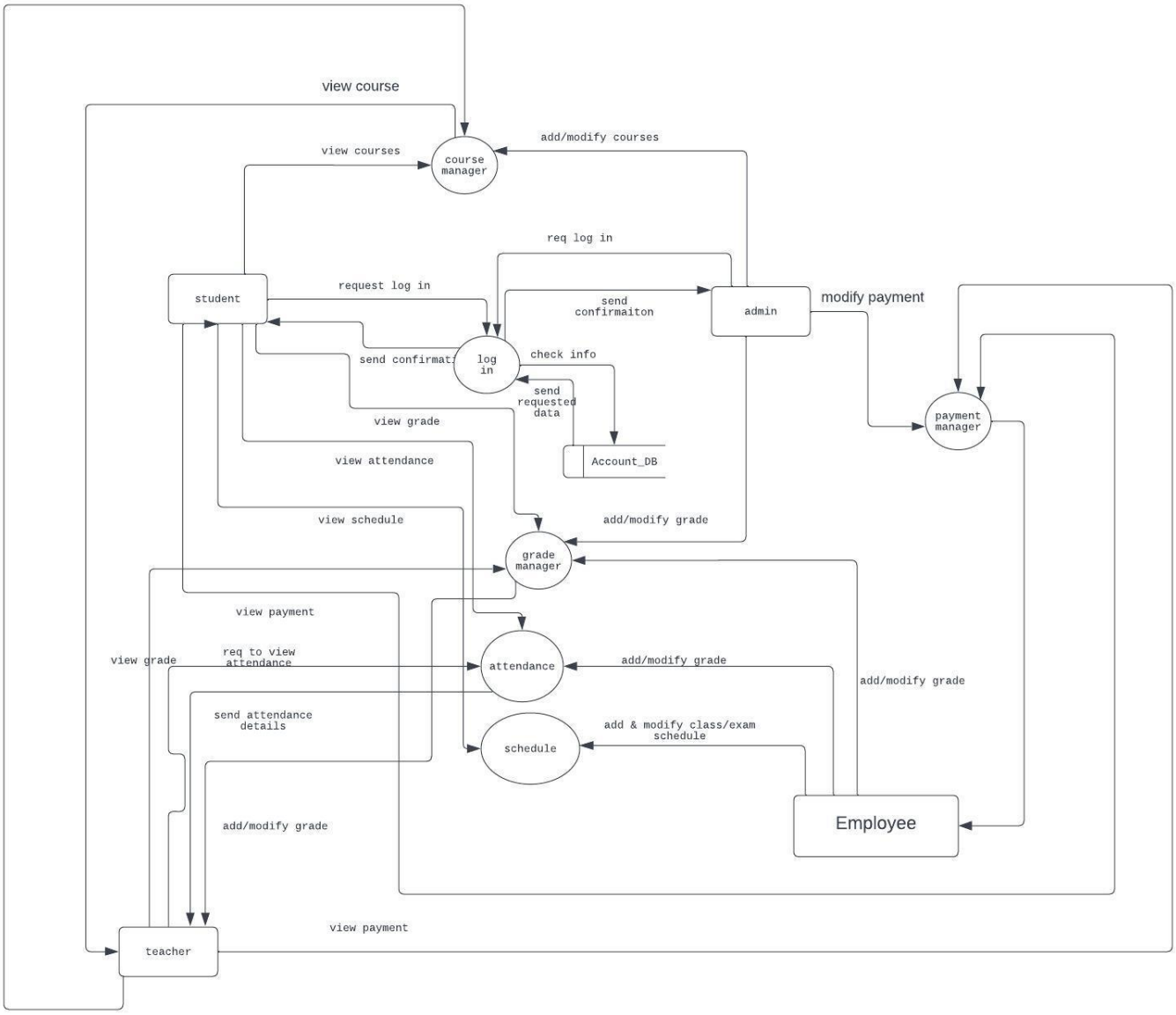
Activity Diagram:



Data Flow Diagram:



DFD Level 0


view course
view courses
course manager
add/modify courses
req log in
student
request log in
send confirmaiton
admin
modify payment
send confirmati
log in
check info
send requested data
payment manager
view grade
Account_DB
view attendance
view schedule
add/modify grade
grade manager
view payment
view grade
req to view attendance
attendance
add/modify grade
add/modify grade
send attendance details
schedule
add & modify class/exam schedule
Employee
add/modify grade
view payment
teacher

Level 1

Sequence Diagram: