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# **Design Diagrams**

**for**

## **Course Registration and Time Table Generation System**

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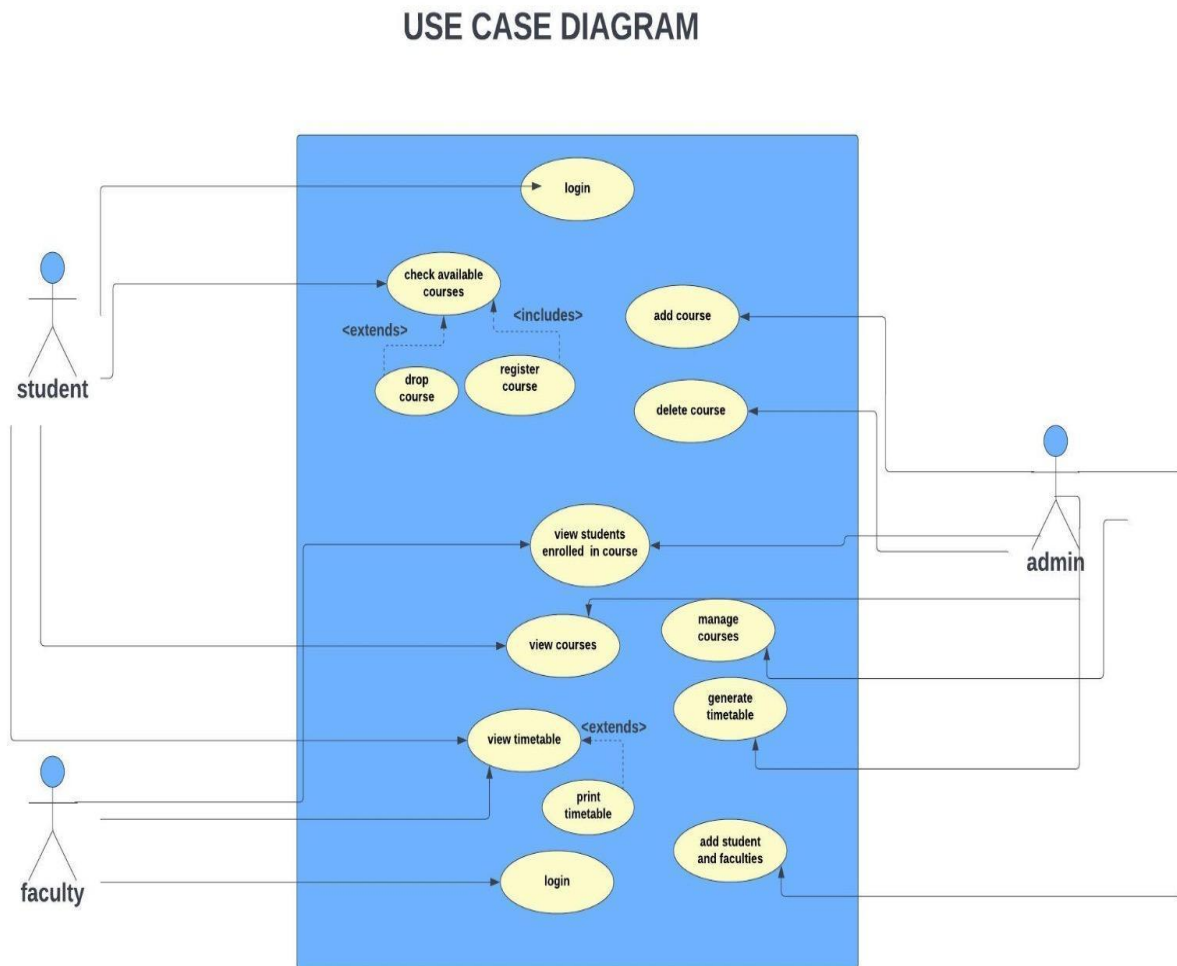
The LNM Institute of Information Technology

Date: October 28, 2023

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# 1 Use Case Diagram

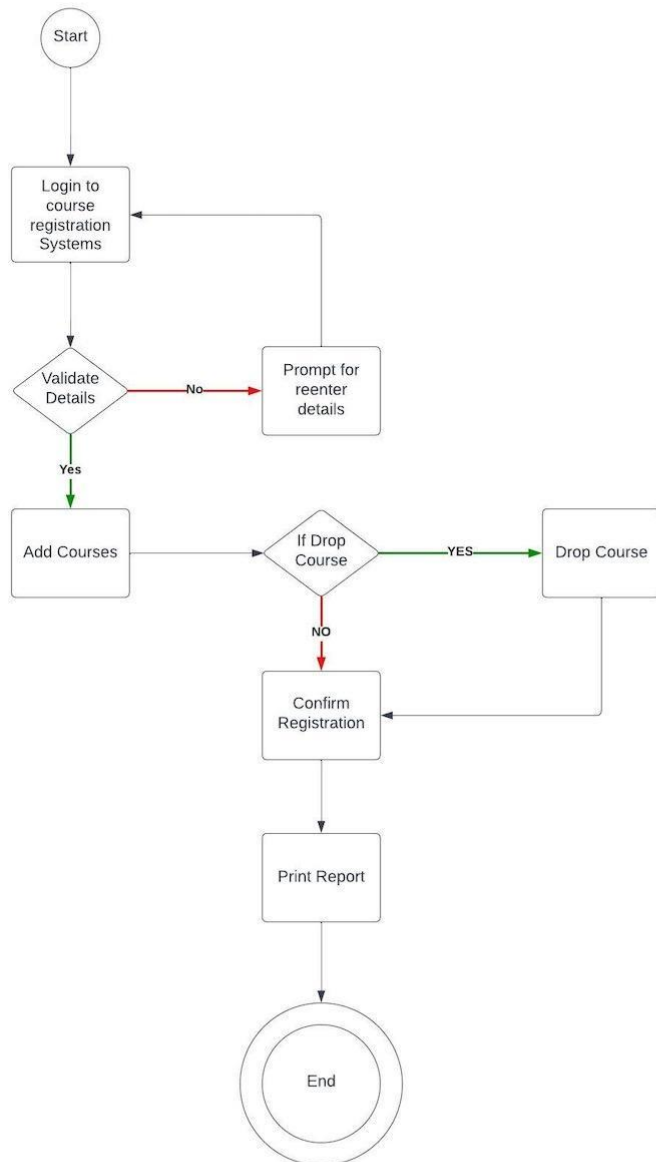
The use case diagram provides a high-level representation of user interactions with the system. It outlines the primary functionalities and features of the application, illustrating how users interact with the system and the main use cases.



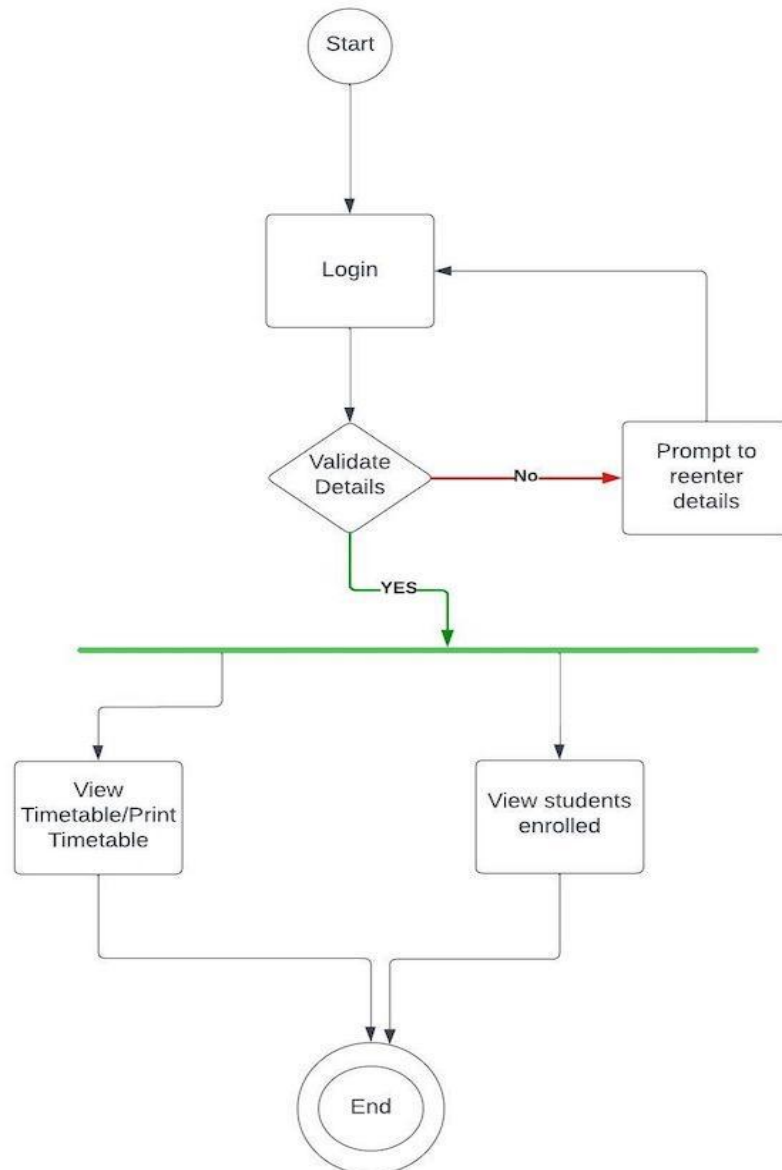
## 2 Use Case Activity Diagram (UCAD)

UCAD, or Use Case Activity Diagram, is a comprehensive design model that consolidates various design and drafting tools into a unified platform. This model is instrumental in architectural design, enabling the creation of detailed plans and schematics.

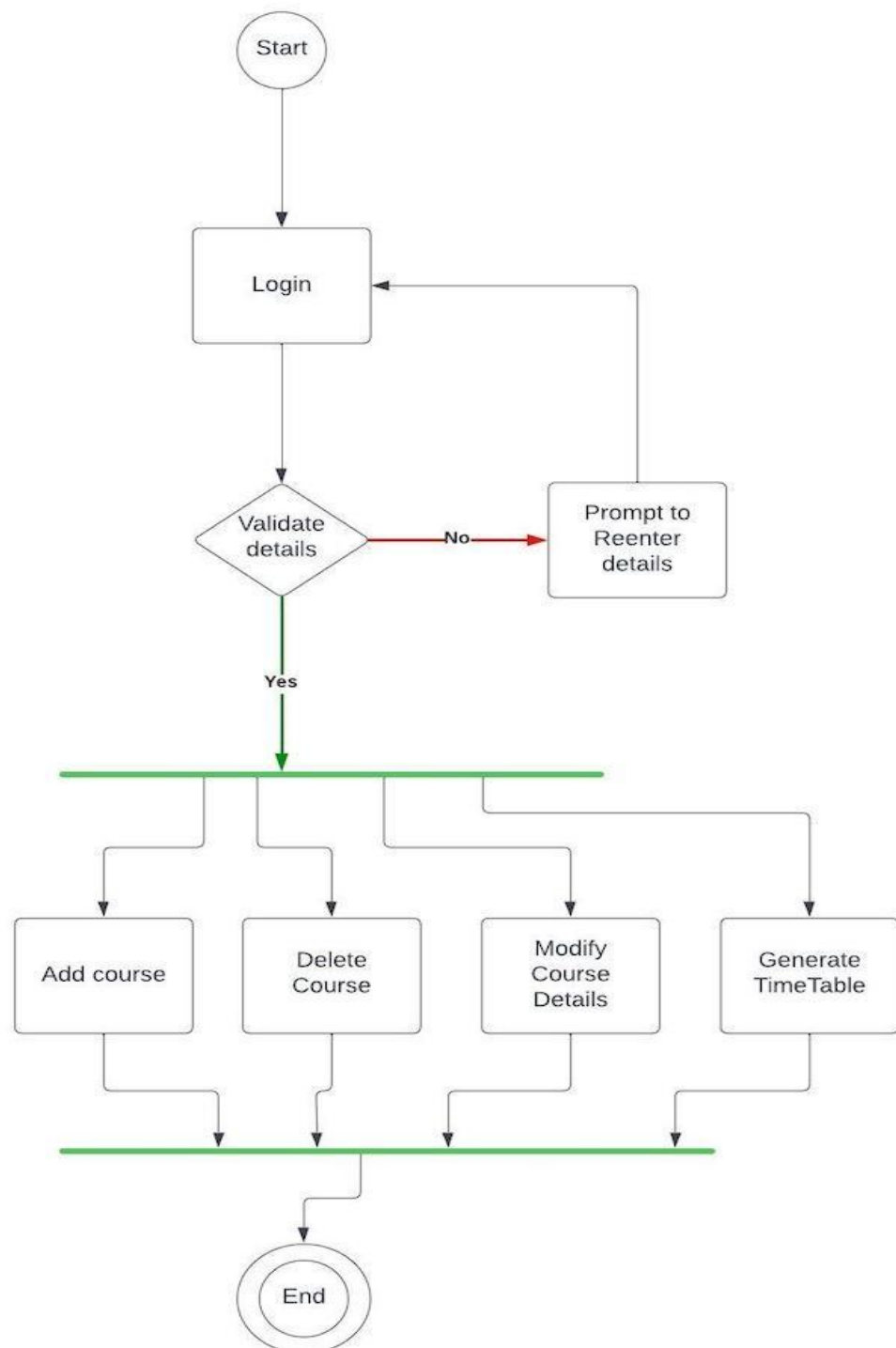
### UCAD Student



## UCAD Course Instructor

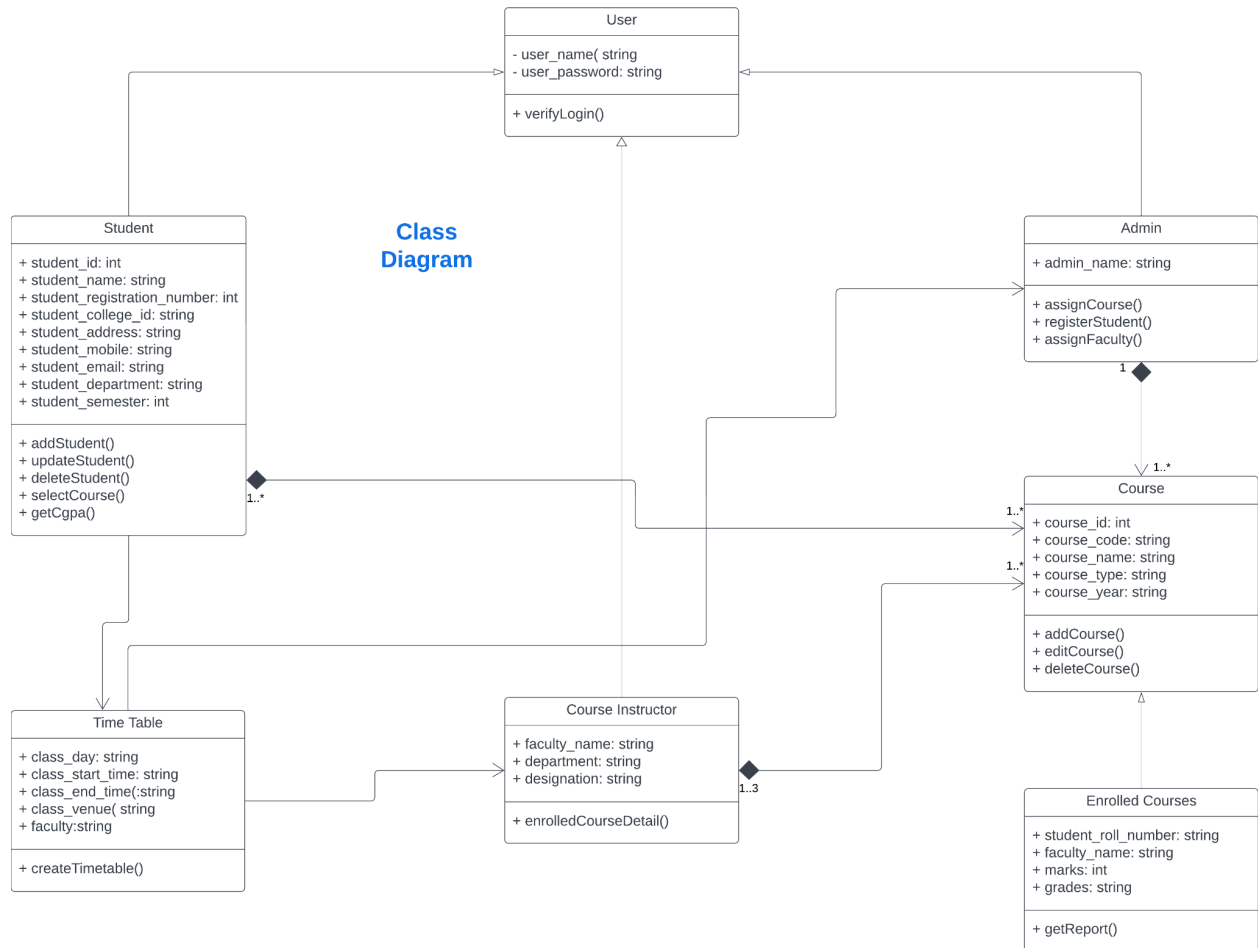


## UCAD Admin



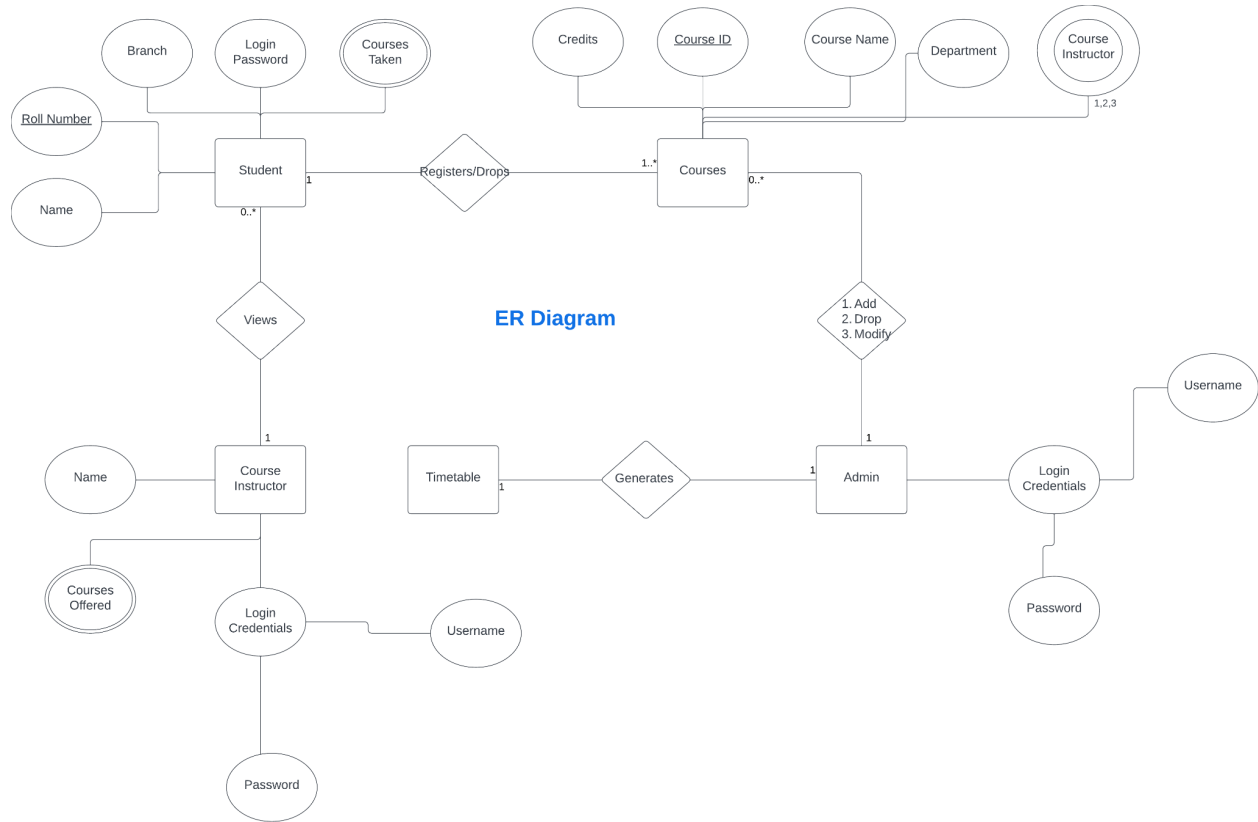
### 3 Class Diagram

The class diagram offers insights into the system's structure by depicting classes, attributes, and their relationships. It is crucial for understanding the object-oriented design of the application and the organization of classes.



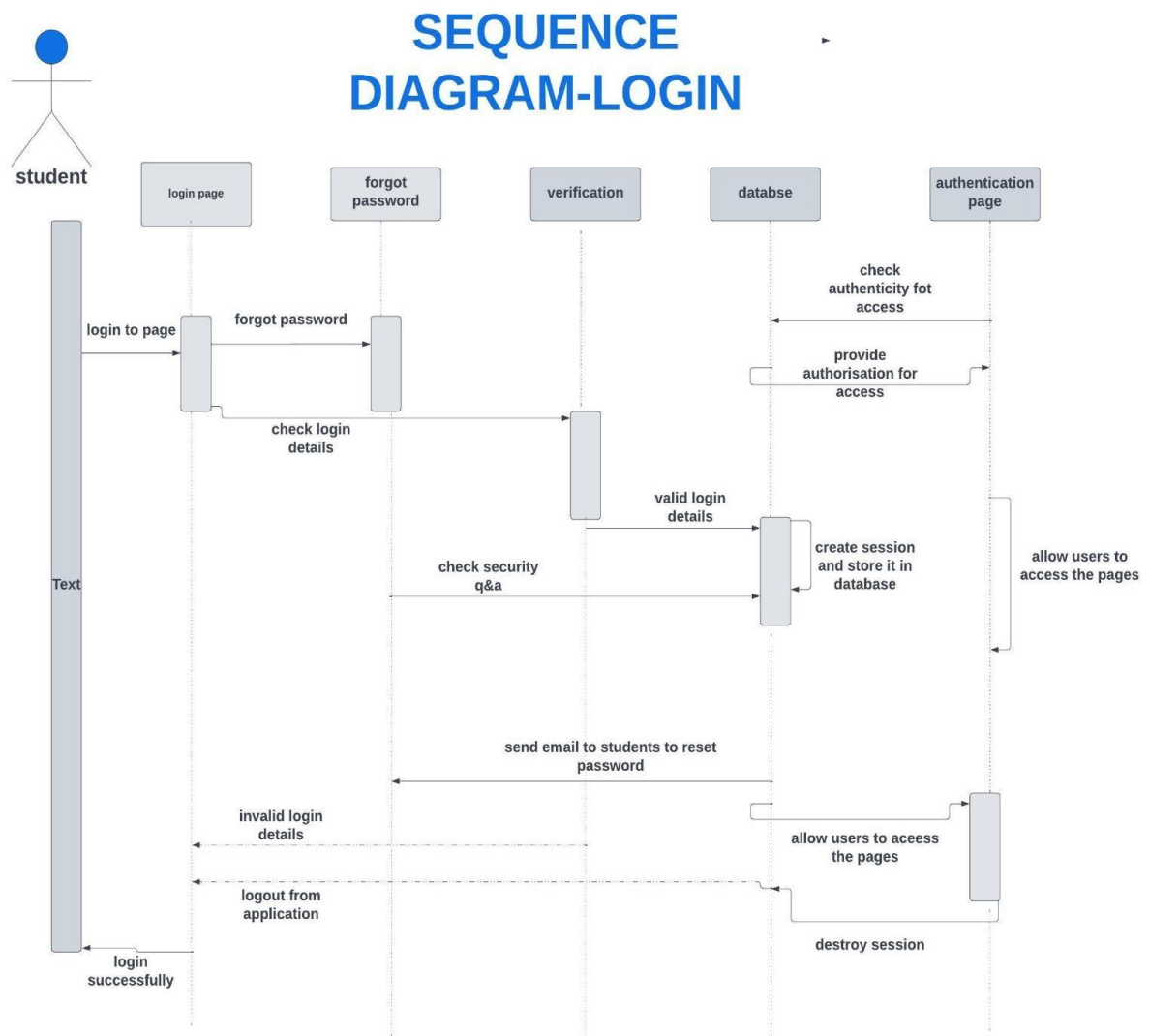
### 4 Entity-Relationship (ER) Diagram

The ER diagram illustrates the database structure, showcasing entities, their attributes, and the relationships between them. It plays a pivotal role in designing the database schema to ensure efficient data management.



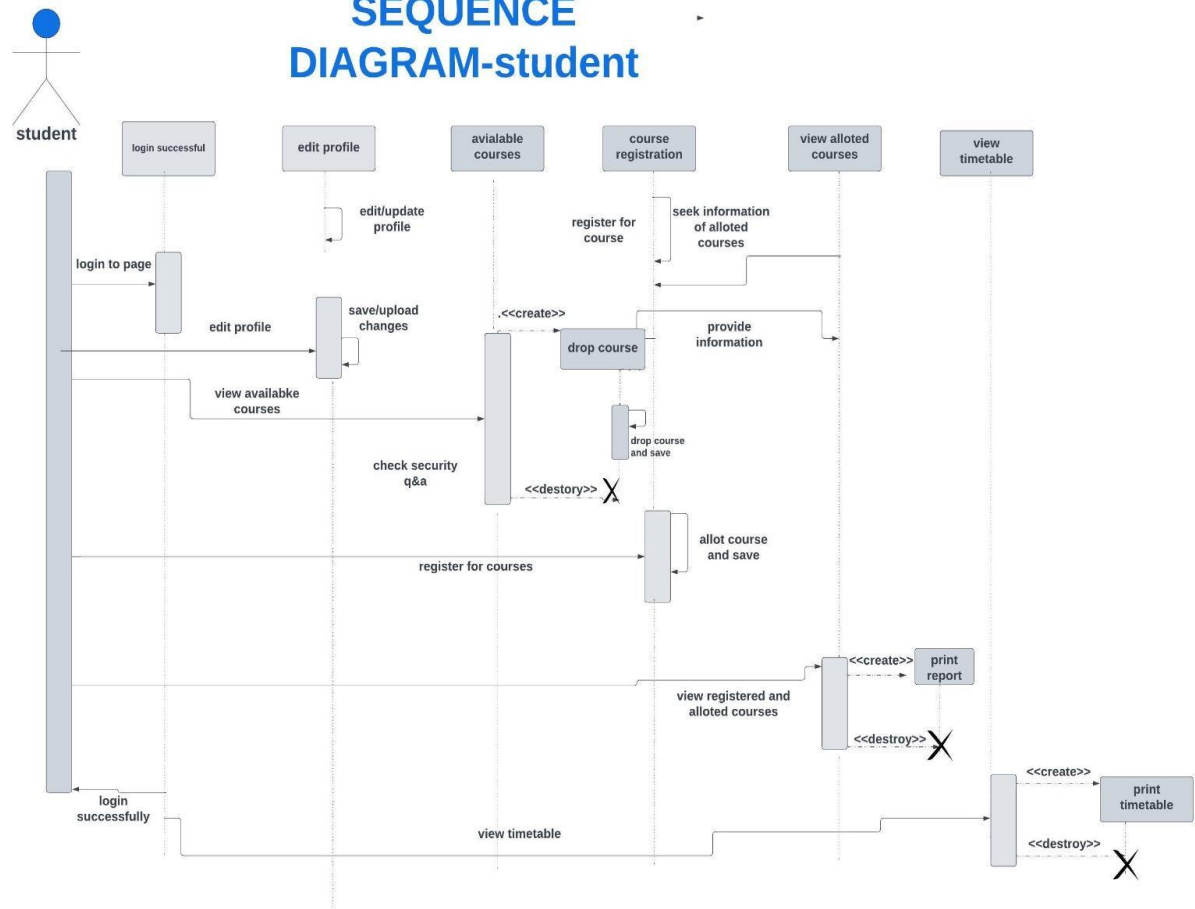
## 5 Sequence Diagrams

The sequence diagram provides a dynamic view of the system by illustrating interactions and message sequences between different objects or components. It helps in comprehending the flow of operations and the sequence of events within the application.

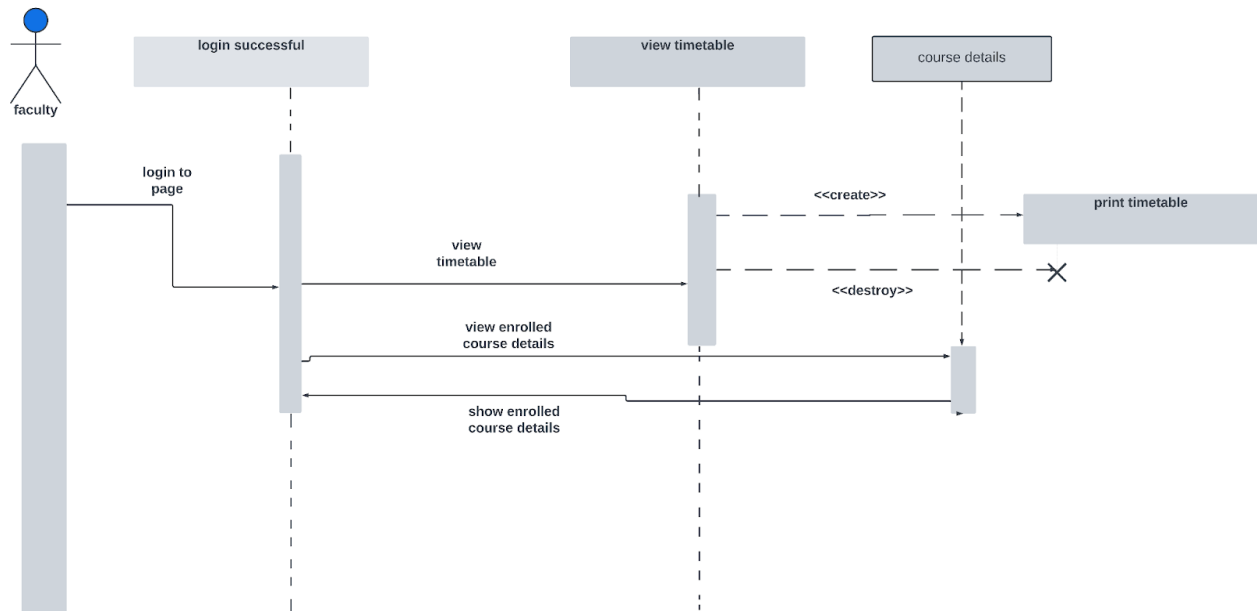


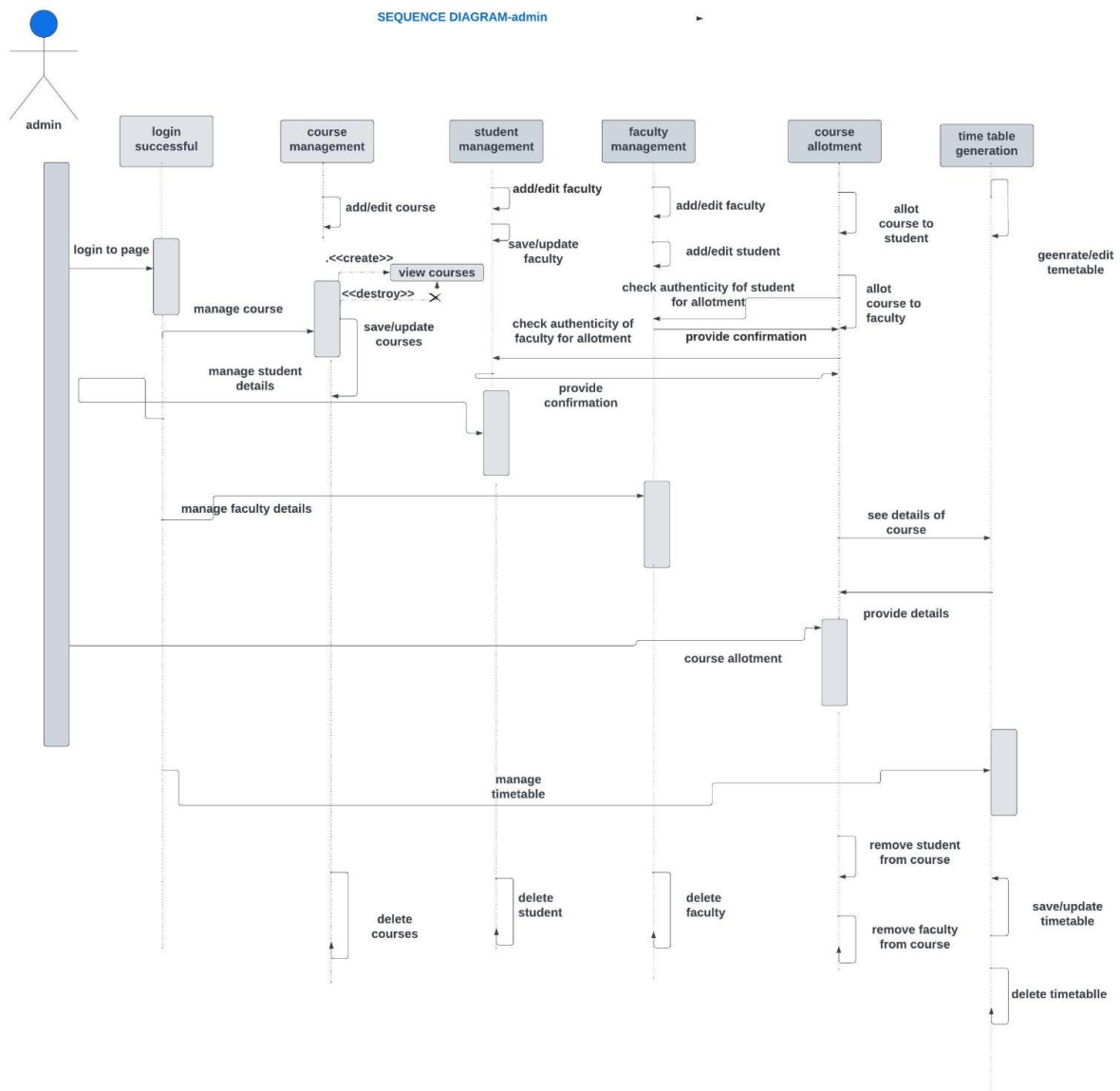


## SEQUENCE DIAGRAM-student



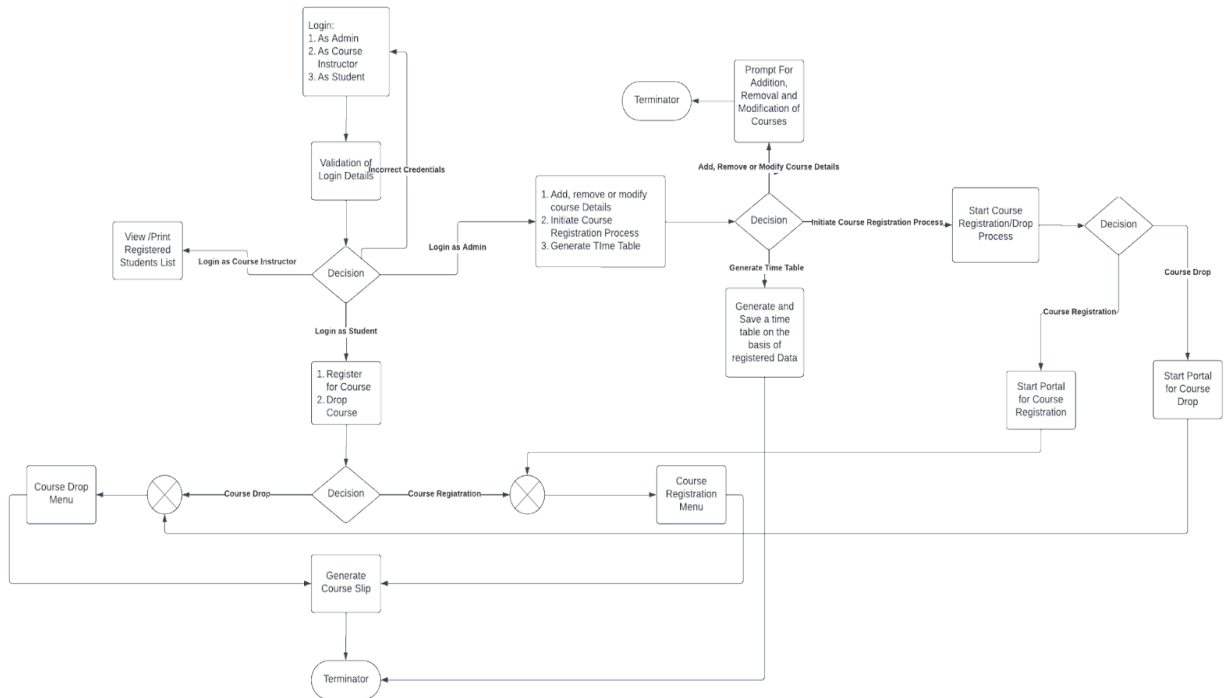
## SEQUENCE DIAGRAM-Course Instructor





## 6 Business Process Model and Notation (BPMN)

BPMN is a standardized graphical notation for modeling business processes. It offers a visual representation of the application's workflow, detailing the sequence of activities, decisions, and interactions within the system. It aids in analyzing process flows and optimizing business processes.



These analysis models collectively contribute to a comprehensive understanding of the course registration and timetable generation web applications. They provide insights into the system's functionality, structure, data management, and business processes.