

# **IT314**

## **Software Engineering**



### **Group 5**

## **Hostel Management System**

### **Design Document**

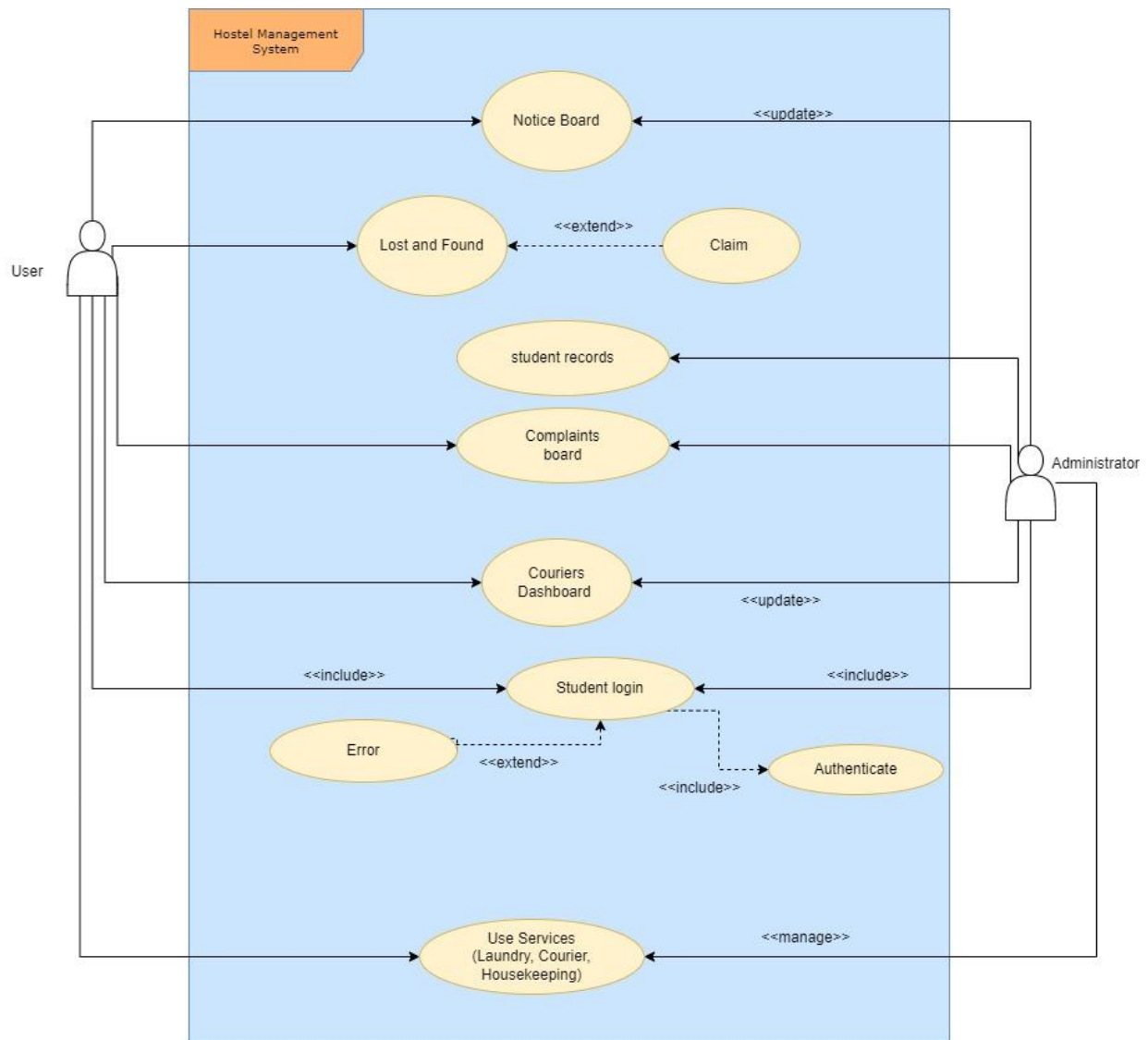
Instructor: Dr. Saurabh Tiwari and Dr. Manish Khare

Date: 26/04/2023

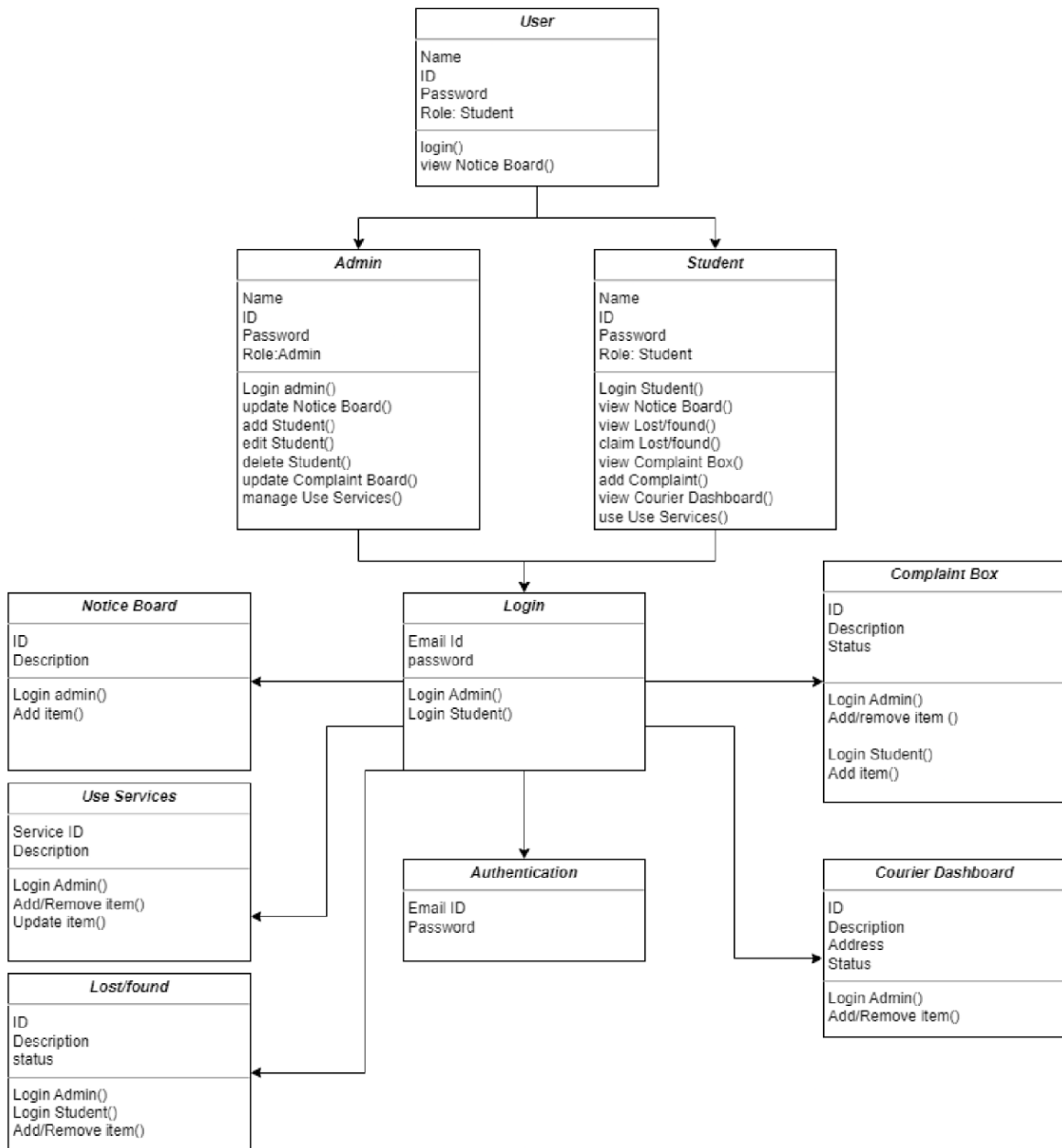
## Introduction

- This Design document outlines the various components and functionalities of the system in detail, along with the use case model, class diagram, sequence diagram, and system design diagram.
- The Hostel Management System is a software application that simplifies and automates the management of hostel activities. The system enables the hostel management to efficiently manage the hostel facilities and student activities such as room allocation, mess management, fee collection, and other administrative tasks.
- The use case model provides a comprehensive view of the system's functionality from the perspective of different actors. It identifies the different use cases and scenarios that are required to support the functionalities of the system.
- The class diagram presents the system's structure, depicting the various classes, their attributes, and the relationships between them. This diagram serves as a blueprint for the system's design and implementation.
- The sequence diagram shows the interaction between the various objects in the system, presenting the flow of events that occur during the execution of the system's functionalities.
- Finally, the system design diagram outlines the overall architecture and design of the system, including the hardware and software components that make up the system.
- Overall, this design document serves as a comprehensive guide to the Hostel Management System, providing a clear understanding of the system's functionality and design.

## Use Case Diagram:

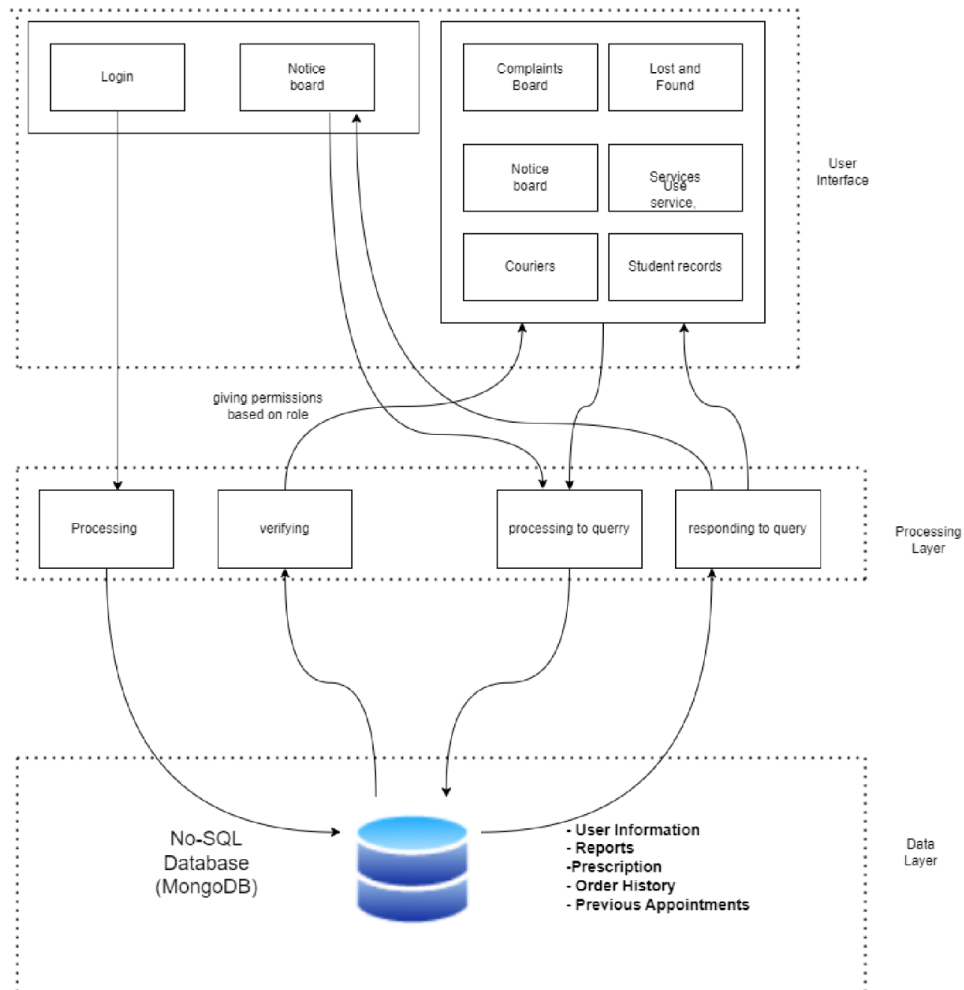


## Class Diagram:

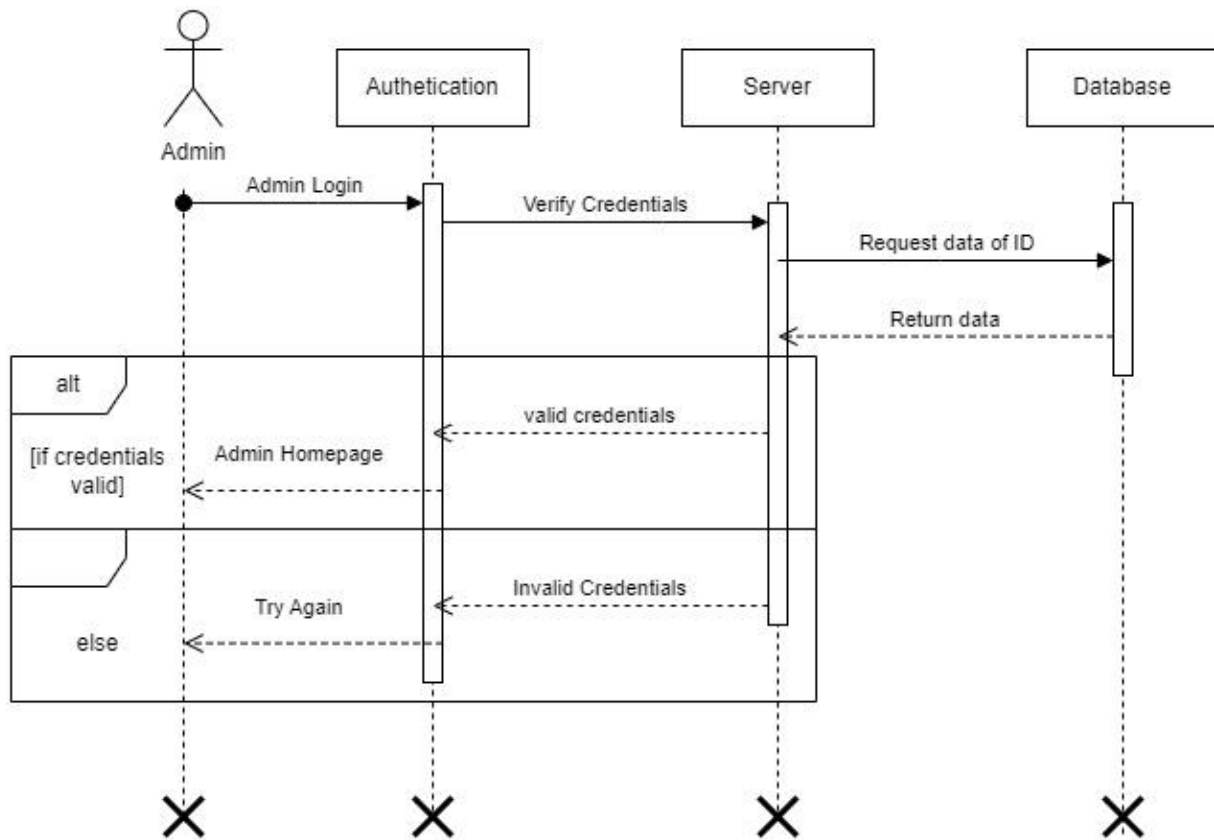


## System Design Diagram:

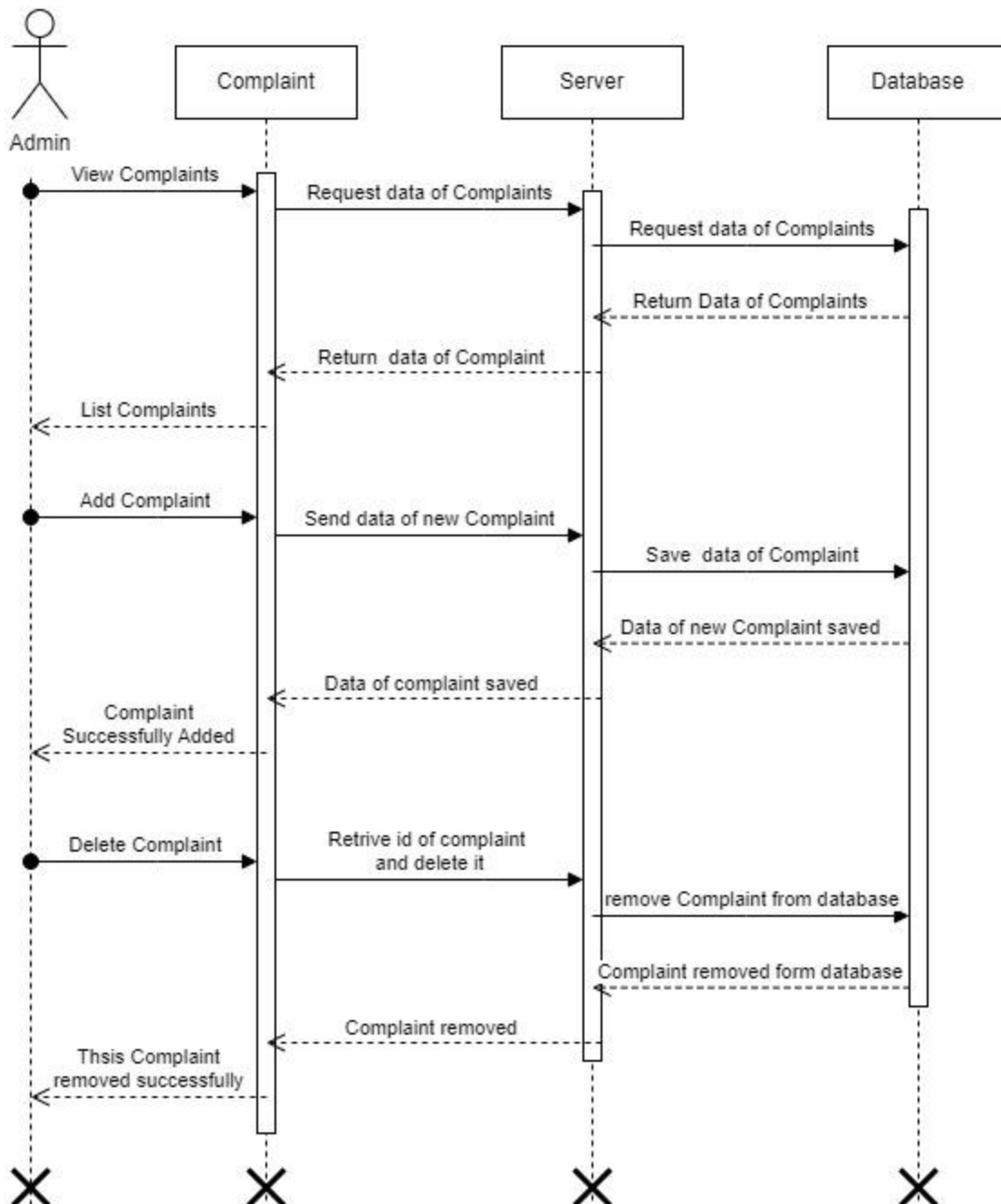
High Level Diagram: **Three Tier Architecture**



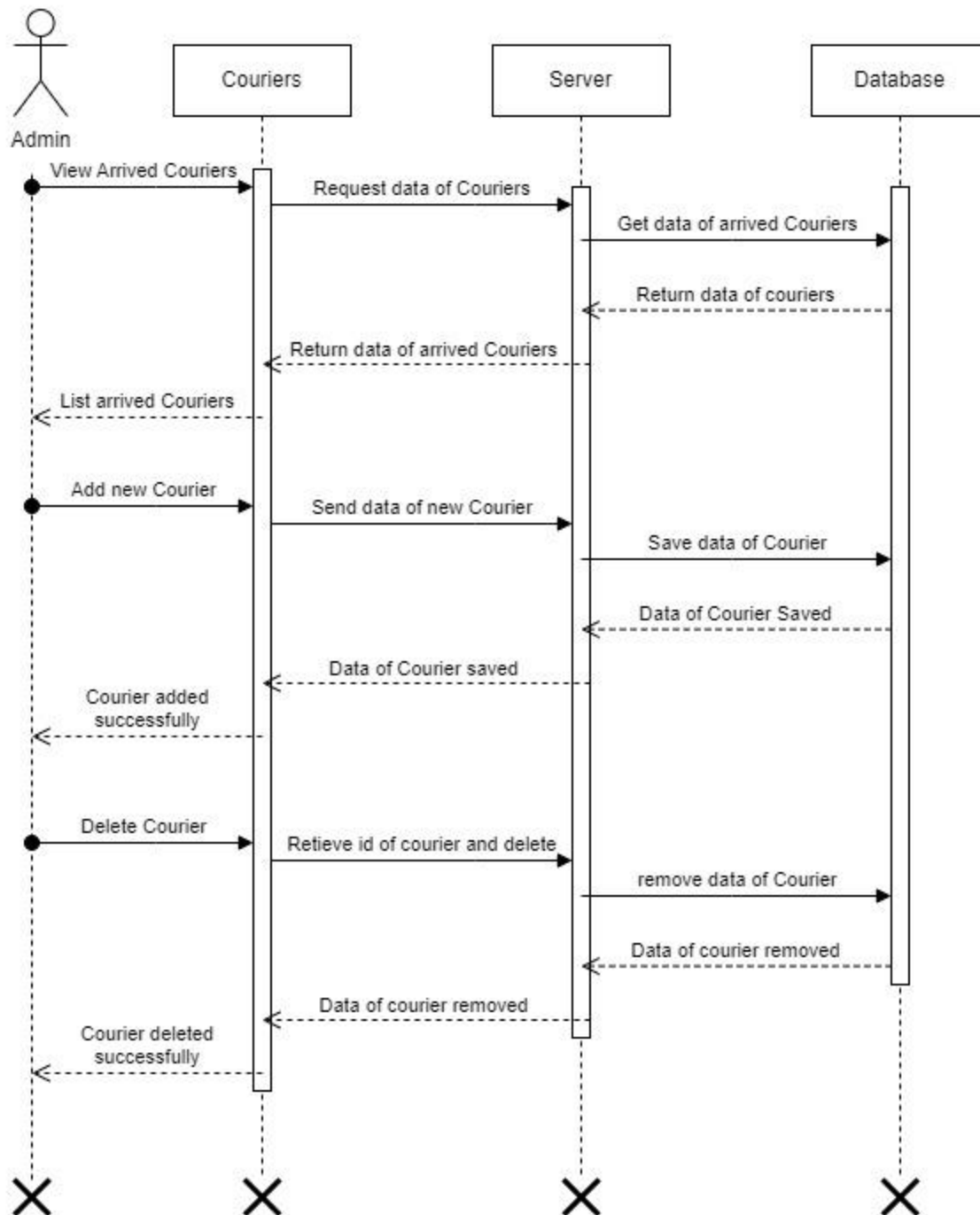
## Sequence Diagrams:



Sequence Diagram Of  
Authentication For Admin

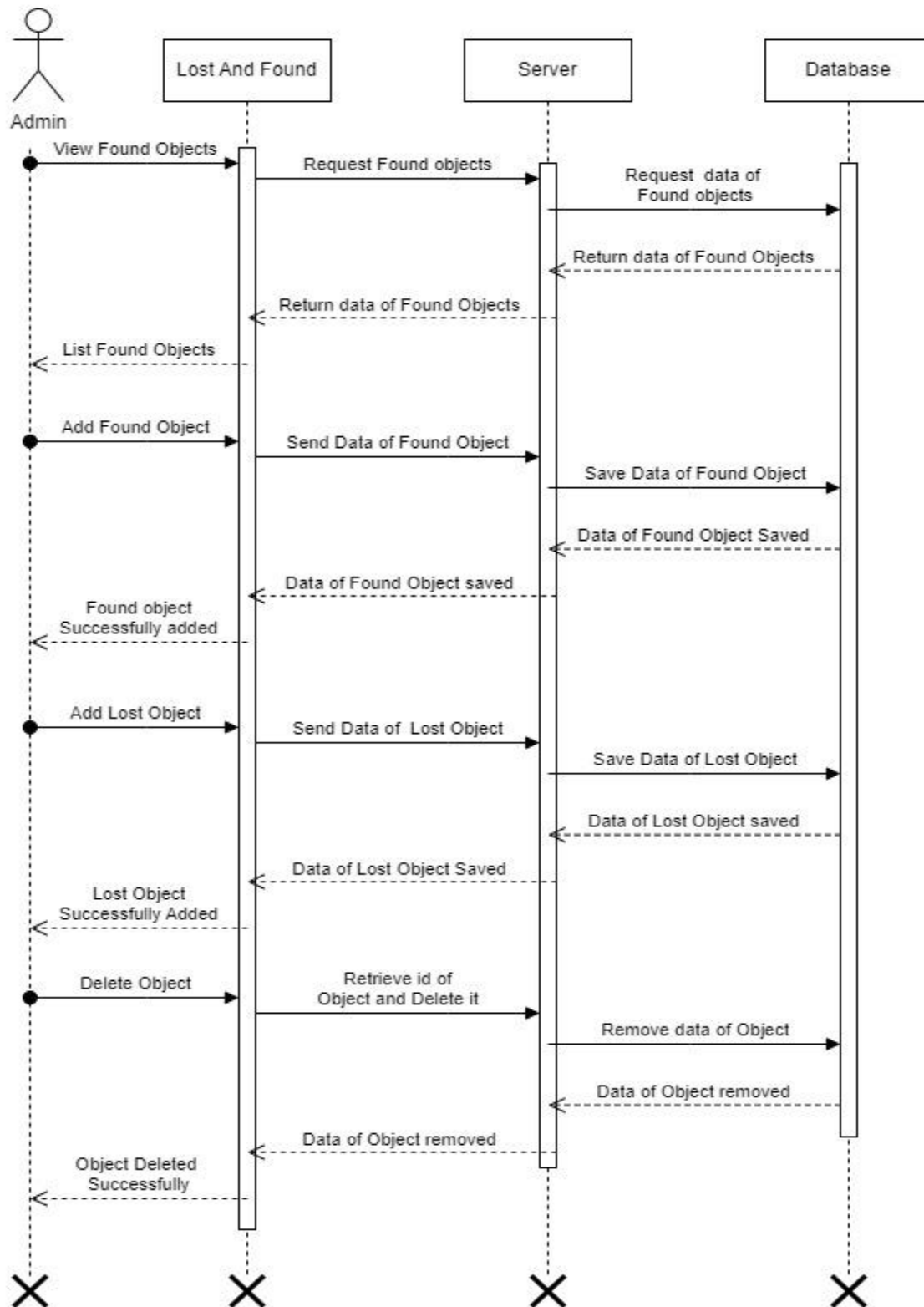


Sequence Diagram Of  
Complaint management For Admin

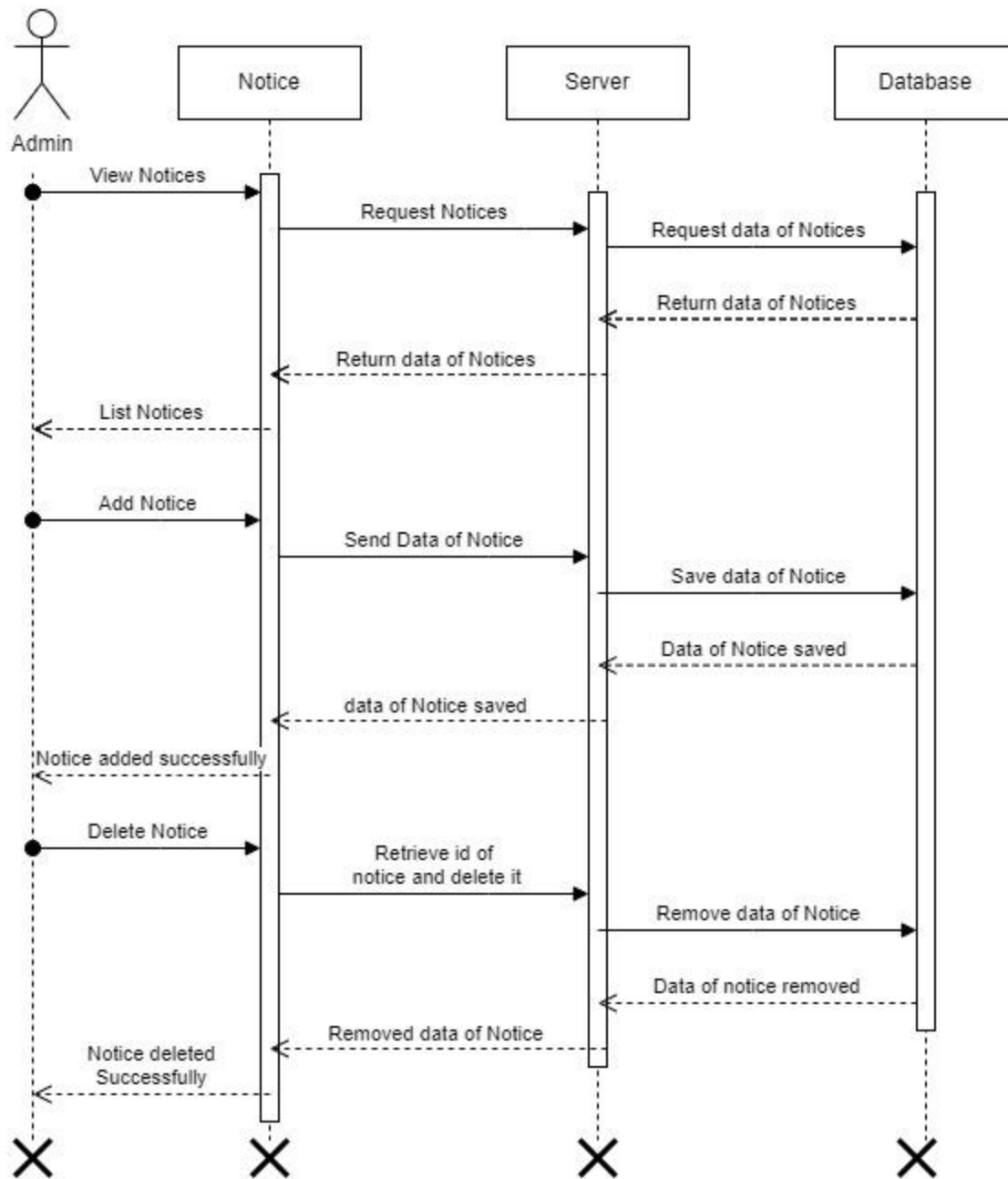


Sequence Diagram Of  
Courier management For Admin

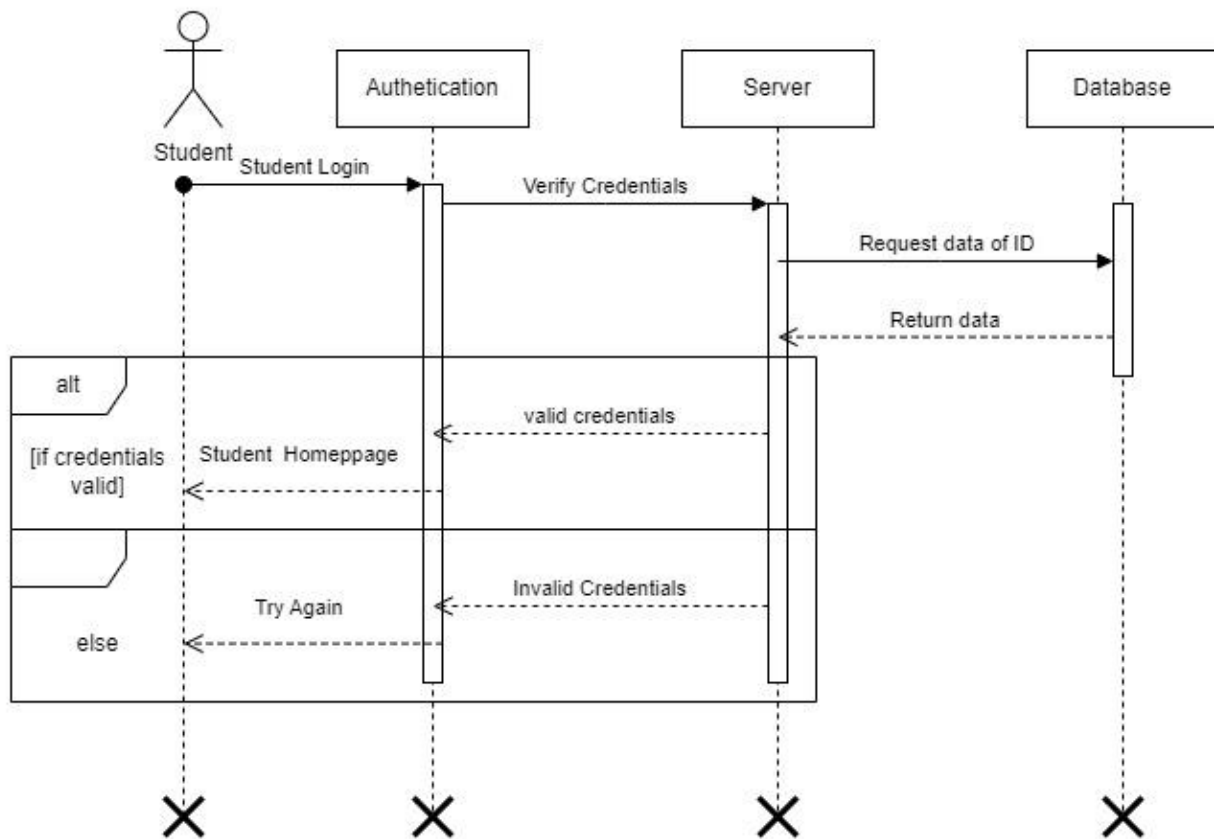




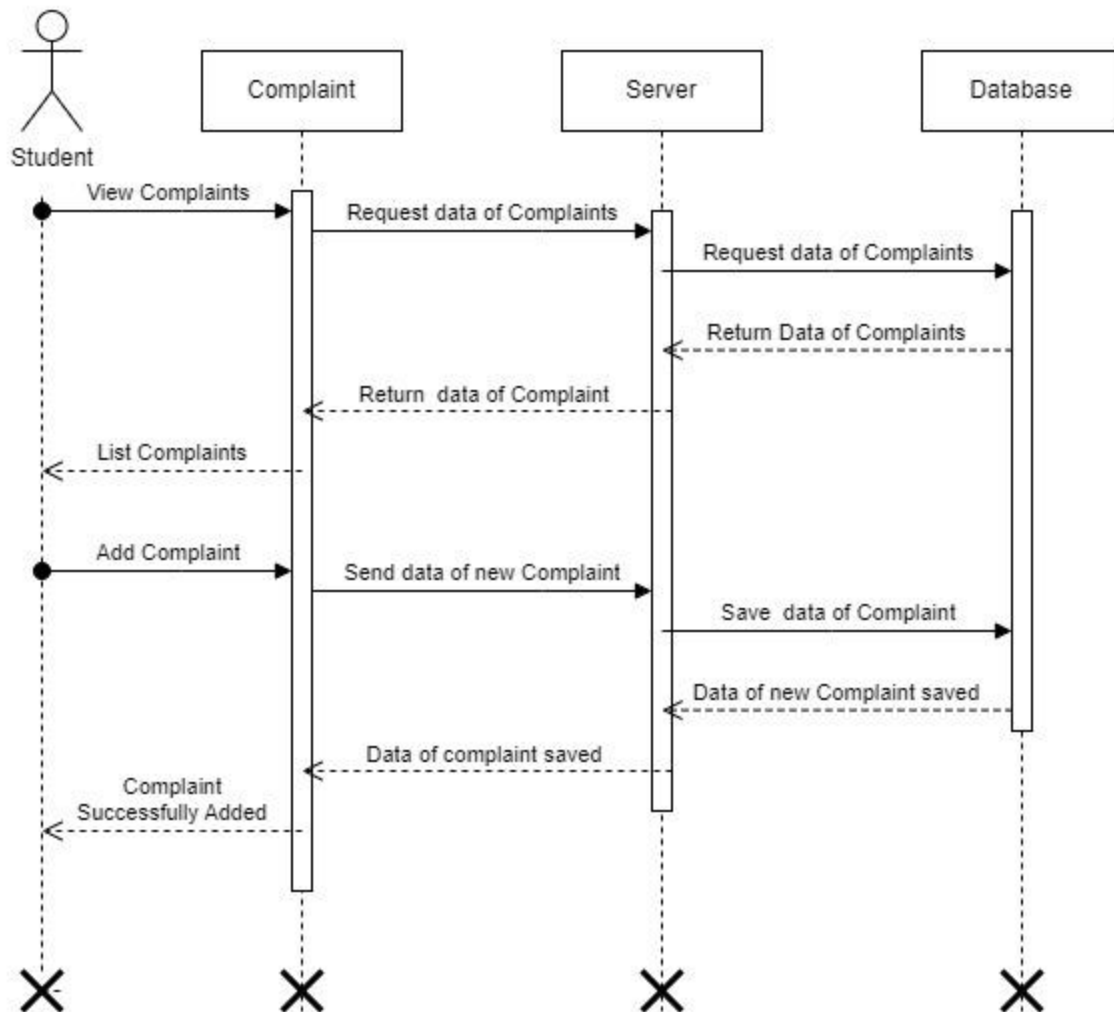
Sequence Diagram Of  
Lost and Found Objects For Admin



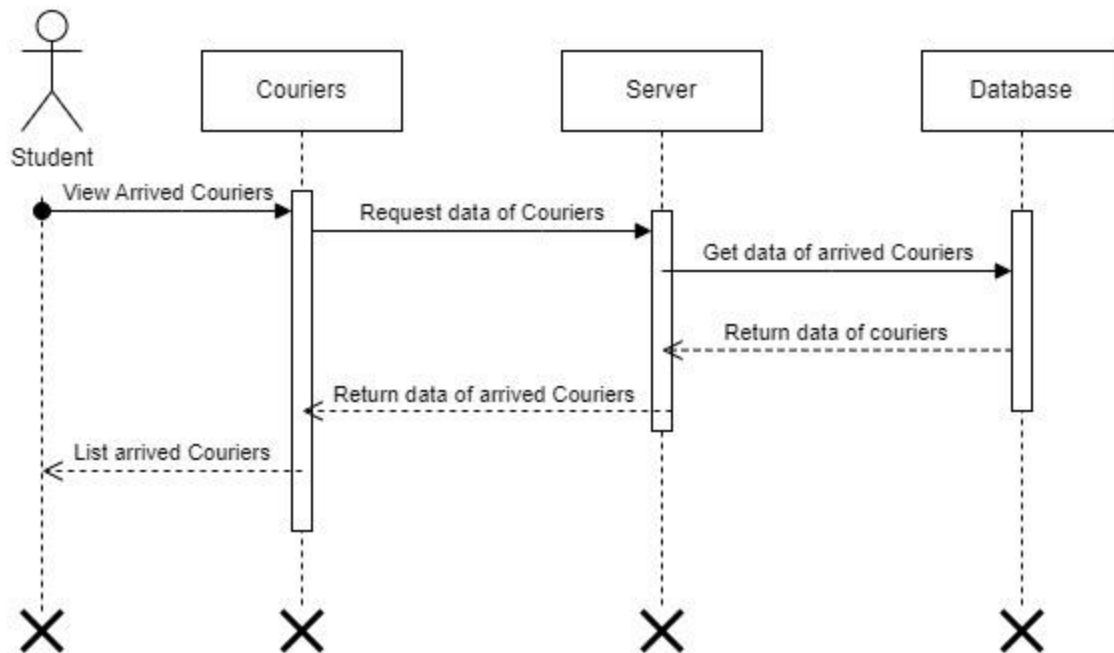
Sequence Diagram Of  
Notice management For Admin



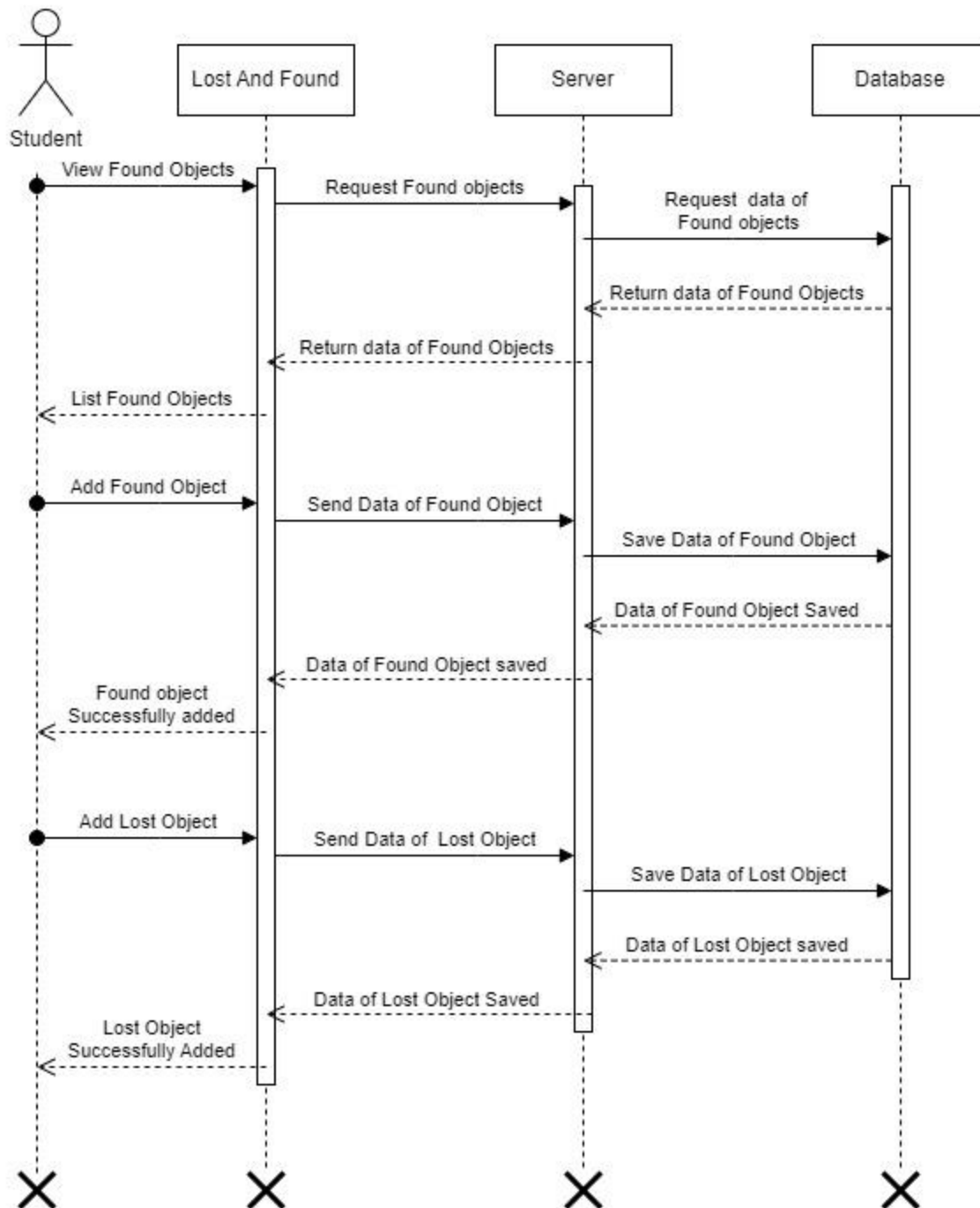
Sequence Diagram Of  
Authentication For Student



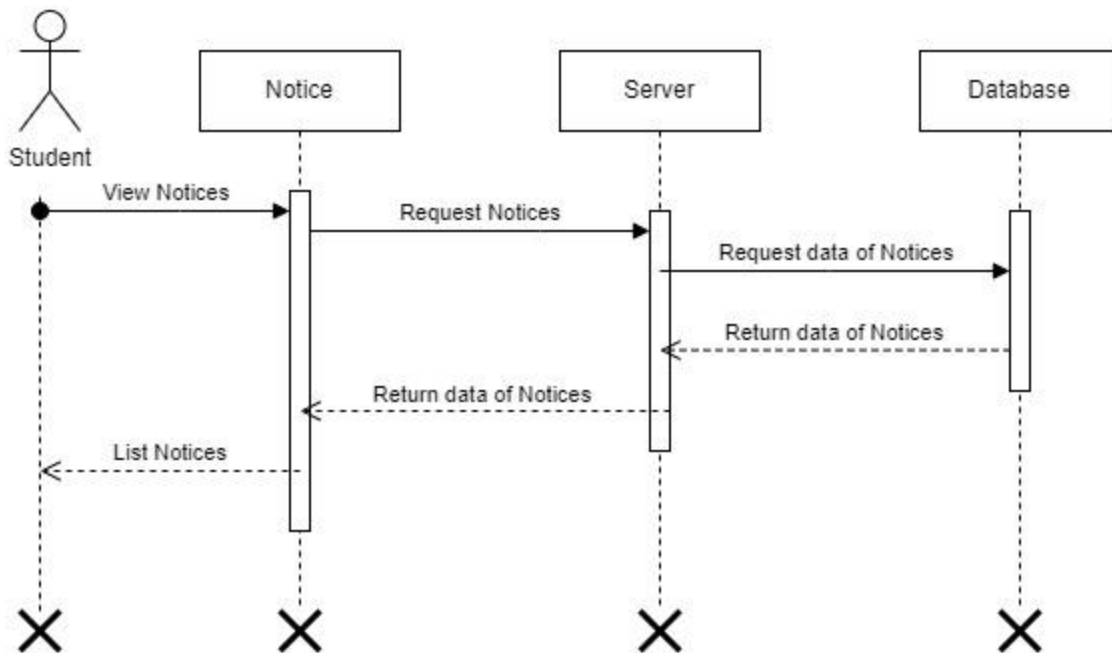
Sequence Diagram Of  
Complaints module For Student



Sequence Diagram Of  
Couriers For Student



Sequence Diagram Of  
Lost and Found Objects For Student



Sequence Diagram Of  
Notice For Student