Project Documentation

Project: DIU Bus Management System

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A project (SE 221: Object Oriented Design) submitted in

fulfillment of the requirements for the degree of BSc in Software Engineering.

DEPARTMENT OF SOFTWARE ENGINEERING

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DECLEARATION OF PROJECT

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Title of Project: DIU Bus Management System

Academic Session: 2024

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Certified by:

Enamul Hakim Khan

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STUDENT ID: 0242220005341127

DATE: 25 / 05 / 2024

SIGNATURE OF SUPERVISOR

NAME OF SUPREVISOR: Akash Ghosh

DATE :

DIU Bus Management System

ABSTRACT

The DIU Bus Management System is a Java-based program developed using the JavaFX framework, facilitating knowing real-time Bus schedule for student And It also can Manage DIU all Bus and departure time schedule. The application is designed to run on desktop systems, and I try to solve a real time problem which I face.

CHAPTER 1: INTRODUCTION

1. Project Over view

DIU Bus Management System Application is a desktop-based software that aims to make managing all DIU buses very easy and convenient. Built in Java using JavaFX.

2. Obstacles

During the development of the DIU Bus Management System, several challenges were encountered. One of them is Data Processing and use proper CRUD operation and implement proper user authentication system.

3. Software and hardware requirements

Software and application platform

- IntelliJ IDEA [JavaFx]

Hardware:

- Unfortunately, there is no hardware used in my project.

4. Milestone and Reporting

- ➢ Analysis
- ➢ Development
- ➢ Testing

5.Requirement Elicitation

- Student

  Student Can see all the assigned bus and also use filter with select rout name

- Bus Authority
    - Sign Up
    - Log in with username & password
    - Assign new bus name & Capacity
    - Assign bus for trip with bus name & time & Rout
    - Bus Clearance with select bus name
    - Return Bus Clearance with select bus name

Users:

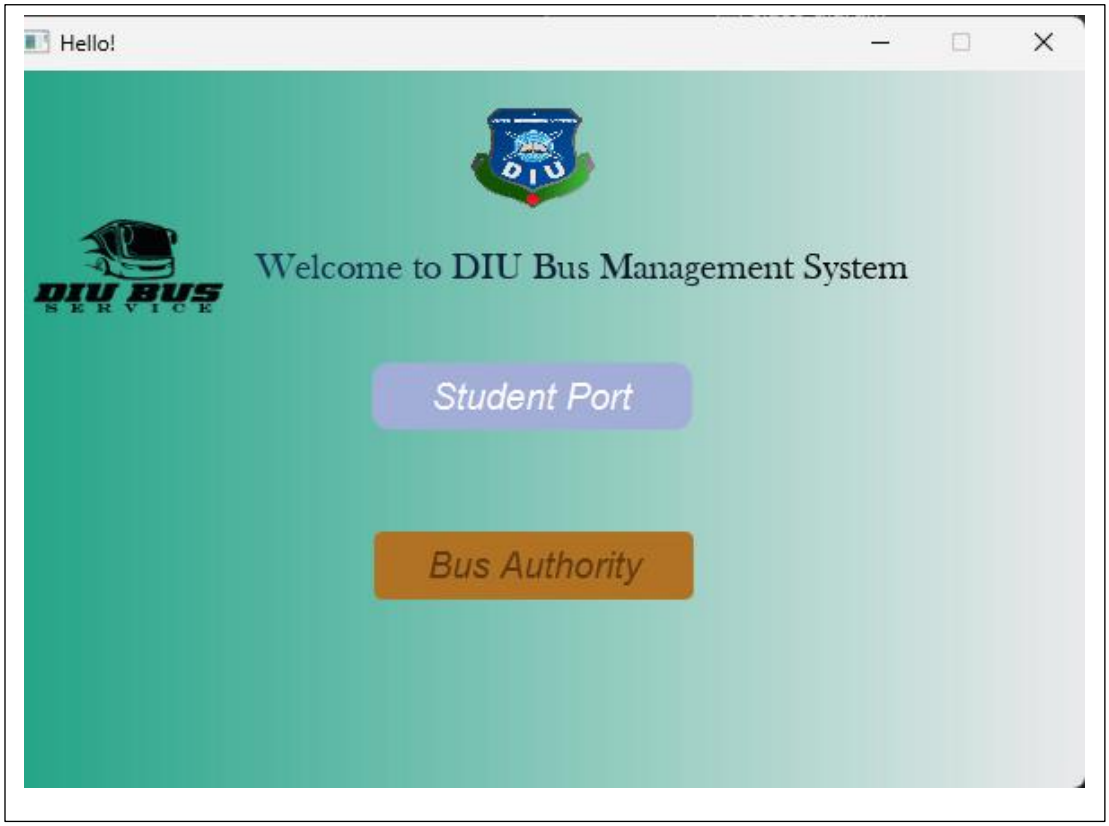
- Student
- Bus Authority

System Task:

- Manage All DIU Bus

CHAPTER 2: PROJECT METHADOLGY AND USER MANUAL

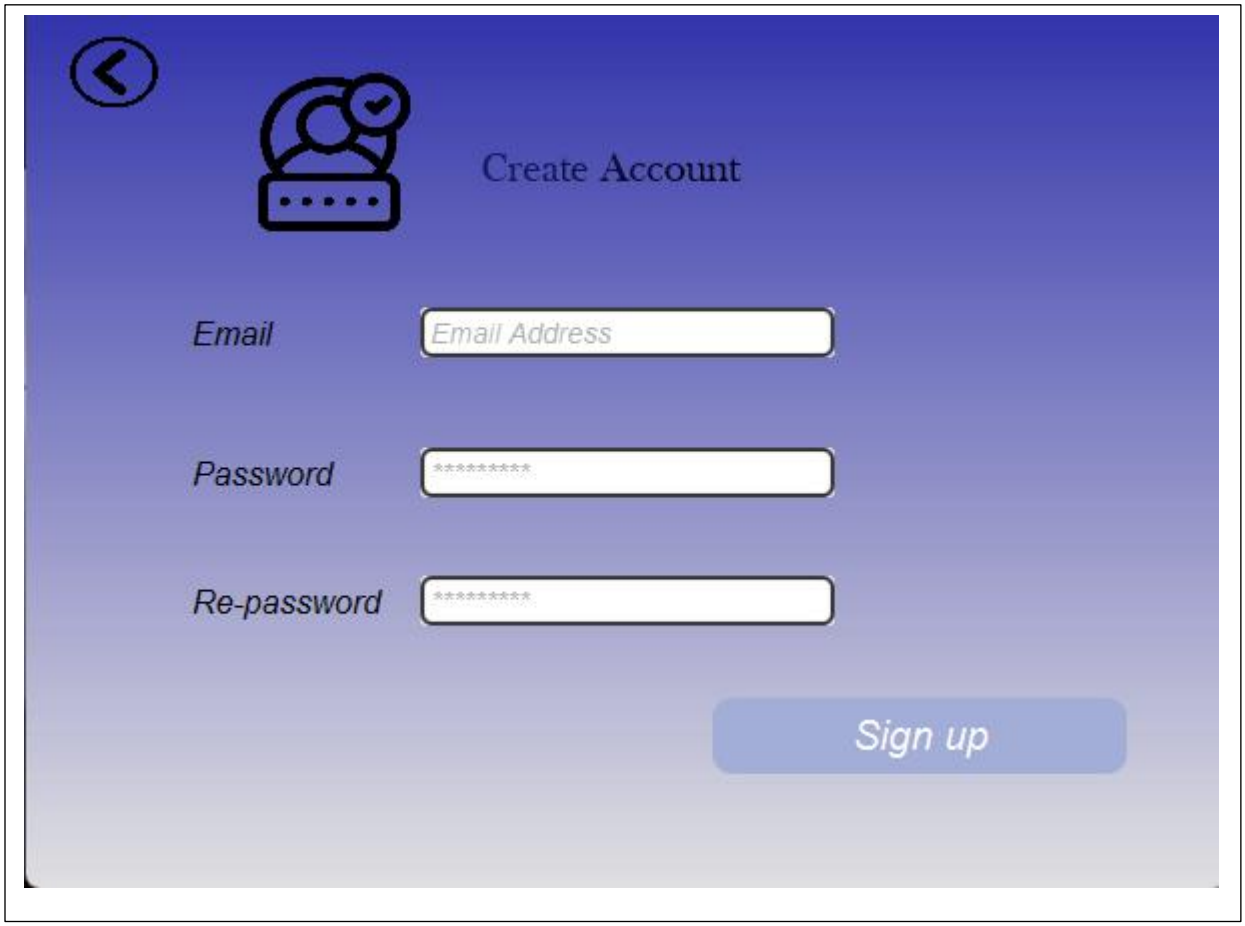
Application Front Page



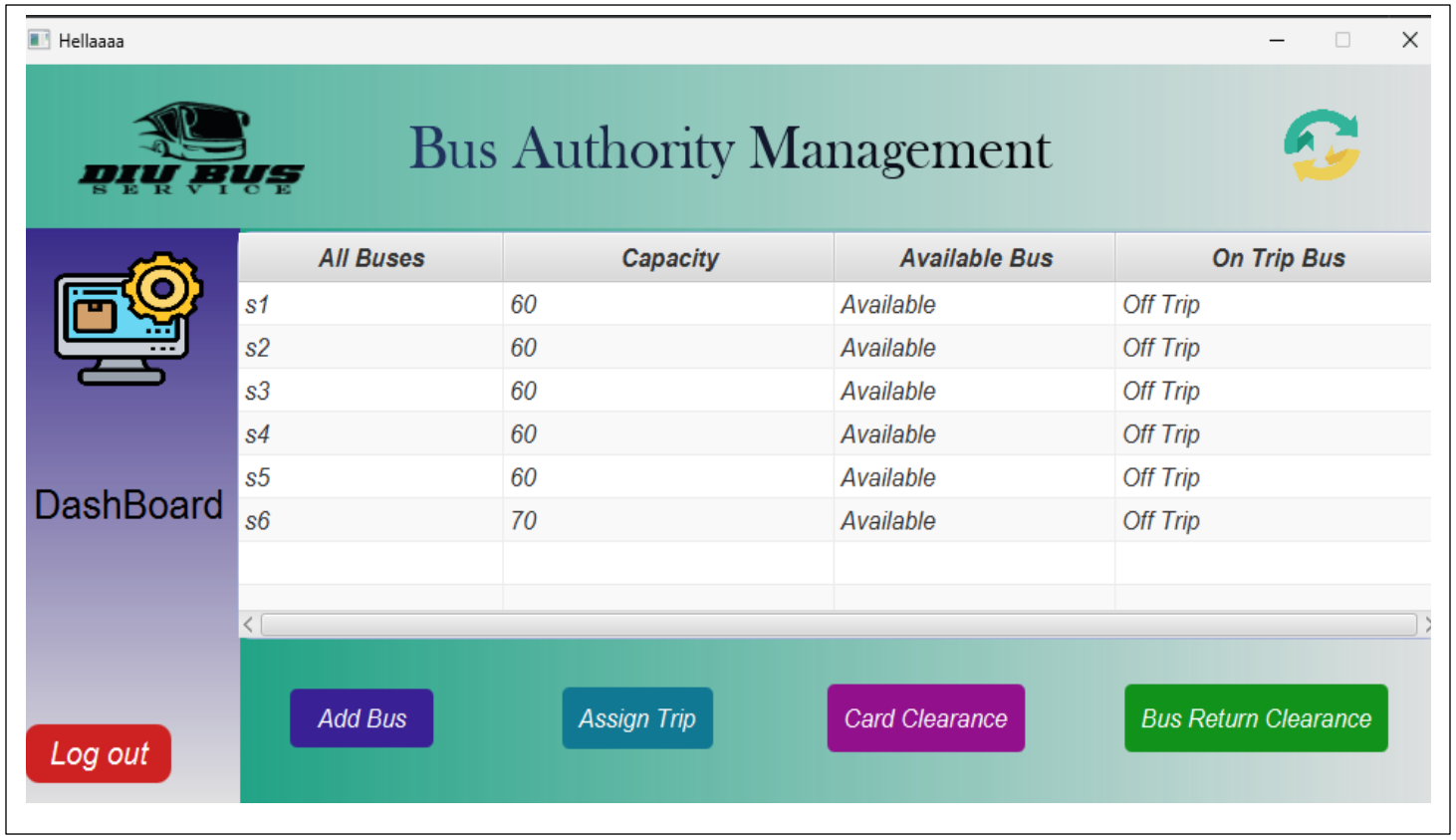
Login Form

DIU BUS SERVICE
Bus Authority
Username
Password
Log in
Sign Up

Sign Up Form


Create Account
Email
Email Address
Password
Re-password
Sign up

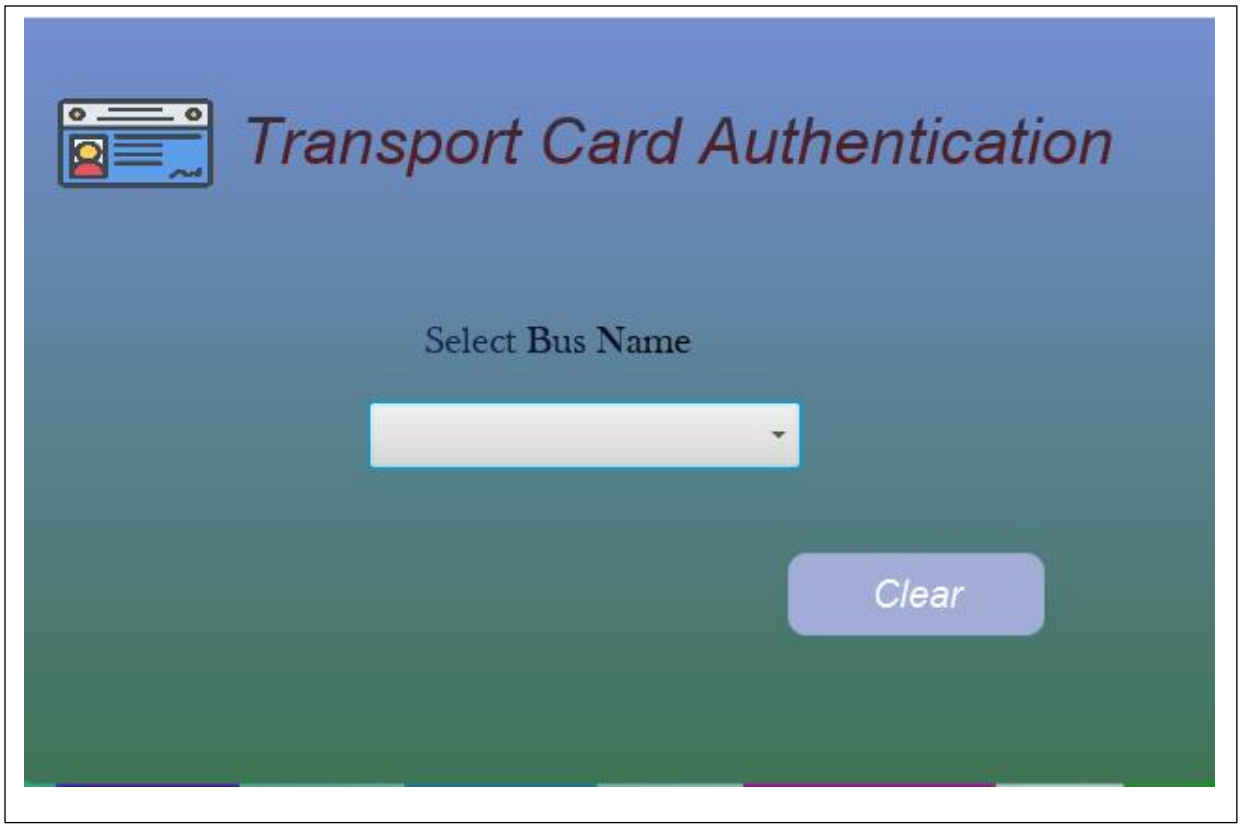
Bus Authority



New Bus Assign Form

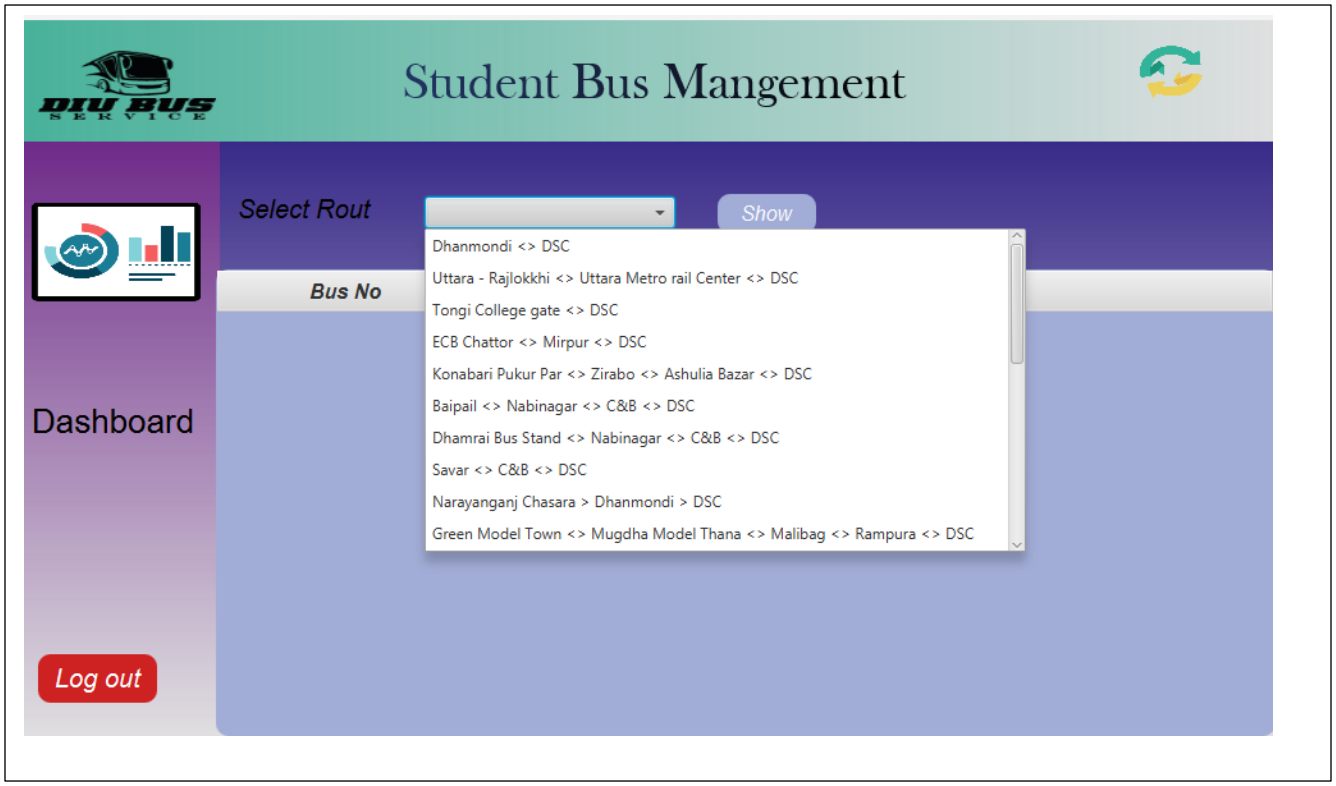
Bus Trip Assign Form

Card Checker Form

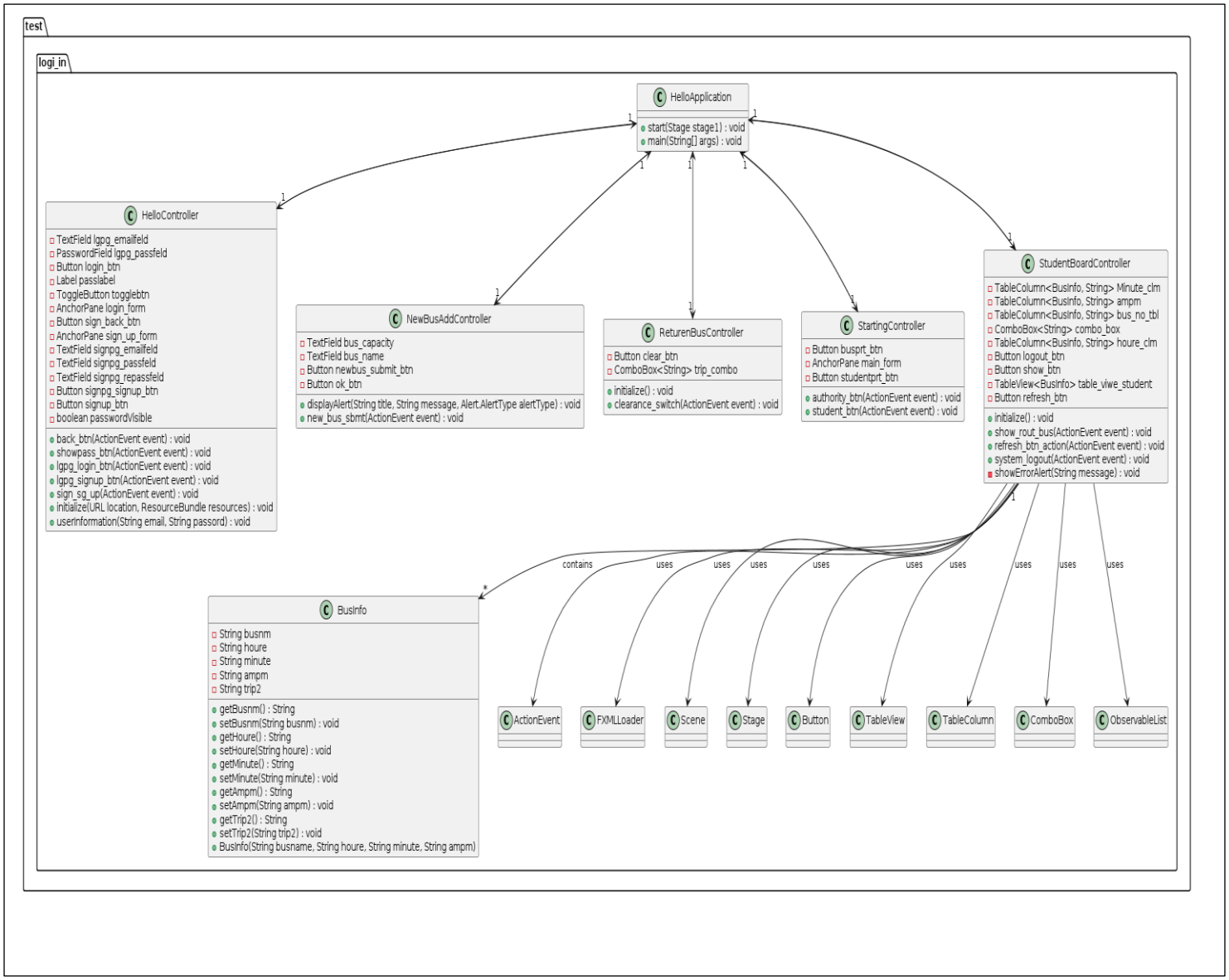


Bus Return Form

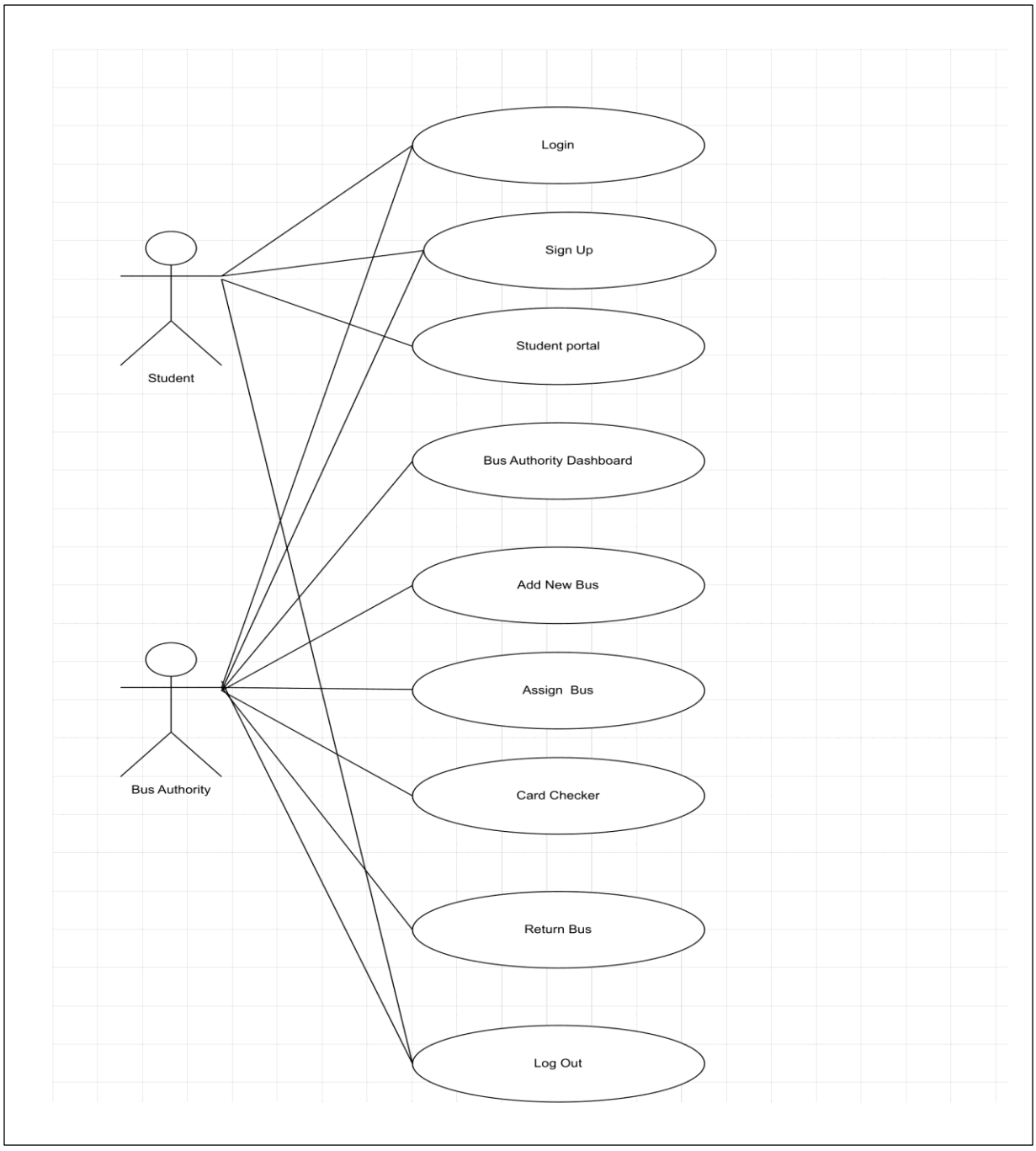
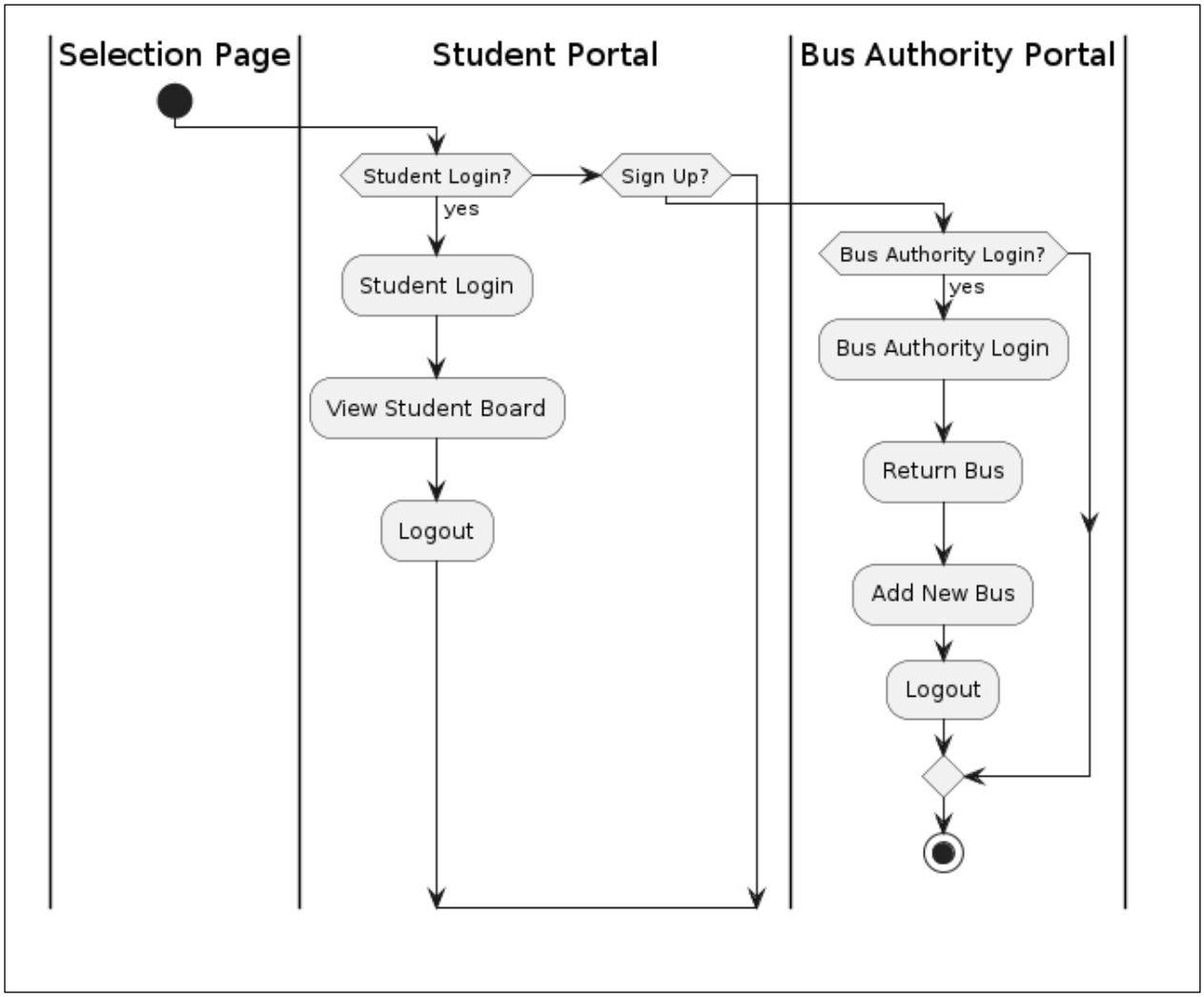
Student Dashboard



Class Diagram



Use Case Diagram



Activity Diagram