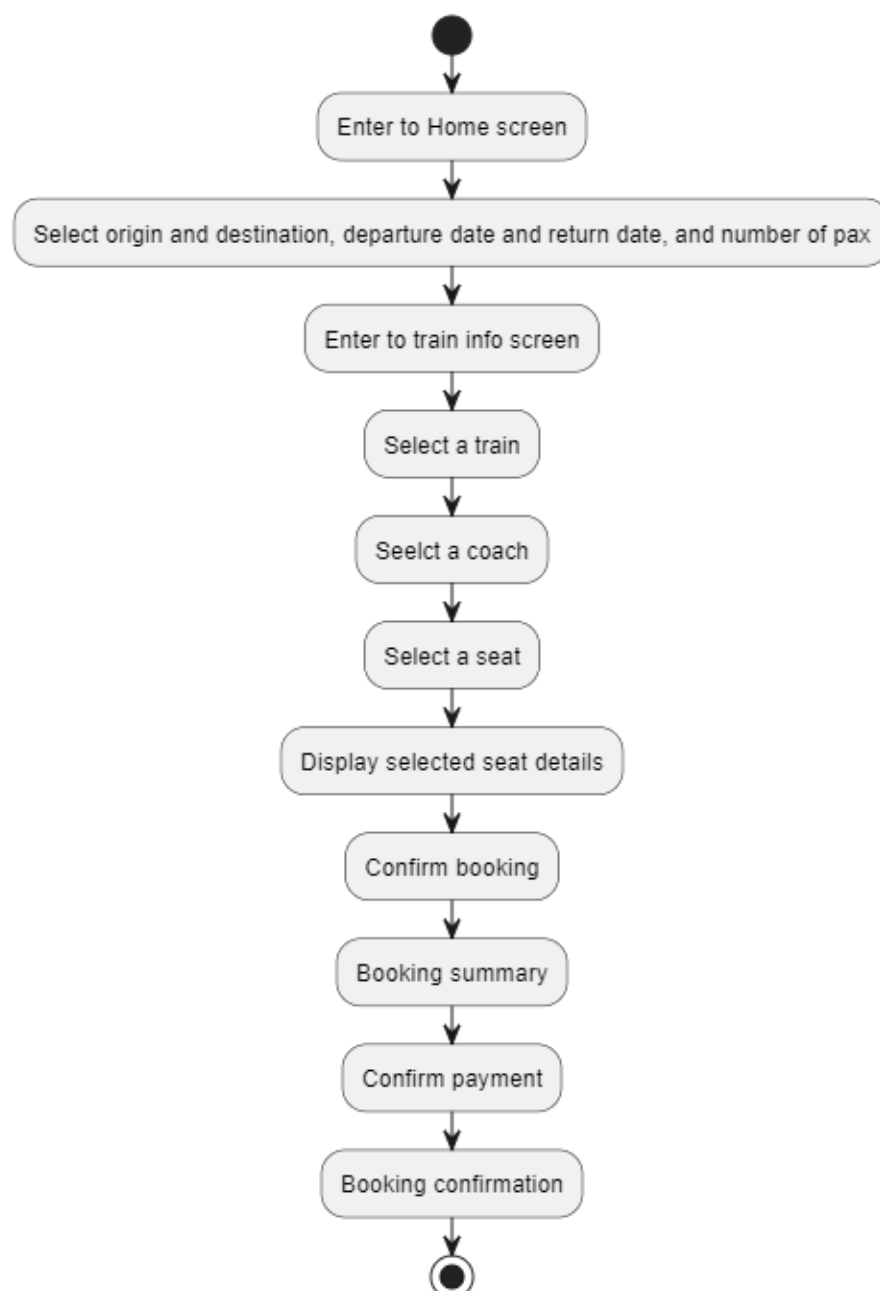# Assignment – Train Ticket Booking App/Web Application

1.0 Description

An online train ticket booking app or web application is to be built. The key feature of the app is the ability to lock a seat on a first come first serve basis.

While in booking mode with the seating plan, all subsequent bookings that is taking place should be real-time displaying all users' activities within the selected train sitting seating plan.

E.g. When User 1 first accessed the seating plan screen, seat A3 was vacant and as User 2 starts booking on seat A3, User 1's seating plan will show A3 as being locked and User 1 or any subsequent users will not be able to book this seat.

2.0 Flow Chart

3.0 Assignments

You are allowed to demonstrate the application in multiple method, e.g. mobile app, web application and command prompt.

Key points:

- ✓ There are 6 coaches in a train.
- ✓ Each coach has 20 seats.
- ✓ 1 seat is only allowed to be selected by 1 user.
- ✓ The seat should be locked if user start booking on the seat.
- ✓ The seat details should include the coach number and seat number.
- ✓ Users are able to reselect a seat before they confirm the booking.
- ✓ Booking summary should include train details (Train Number, Departure Time, Arrival Time, Total Amount) with qr code sent via email.
- ✓ An application which allow the operation to manage the schedule and booking.

4.0 Submission

You may send us the source code or upload the source code to GitHub.