



DOKUZ EYLUL UNIVERSITY

ENGINEERING FACULTY

DEPARTMENT OF COMPUTER ENGINEERING

CME3201 – DATABASE MANAGEMENT SYSTEMS

TERM PROJECT

FINAL REPORT

Project Topic: Electronic Ticket Sale Website

Prepared by

- 2020510091 Evrim Gizem İŞÇİ [evrimgizem.isci@ogr.deu.edu.tr](mailto:evrimgizem.isci@ogr.deu.edu.tr)
- 2021510081 Özgün ÖZER [ozger.ozgun@ogr.deu.edu.tr](mailto:ozger.ozgun@ogr.deu.edu.tr)
- 2021510021 Yiğit CAN [yigit.can21@ogr.deu.edu.tr](mailto:yigit.can21@ogr.deu.edu.tr)
- 2021510069 Eylül Pınar YETİŞKİN [eylulpinar.yetiskin@ogr.deu.edu.tr](mailto:eylulpinar.yetiskin@ogr.deu.edu.tr)

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## Project Description

- The electronic ticket sale website project is a Node.js, Express.js, and MySQL project. The final product of this project is a website that uses an event and transportation database. Through this website, you can buy tickets to those events or transportation routes online.
- The website includes tickets for events like cinema, theater, opera, or transportation options like bus. With this, the user can choose an event to go to and book ticket for both event and transportation to the city where the event is being held.
- Creating an account, logging in and searching for events are some properties of this project. Administrators can add events, routes, or even venues to the database from this website.
- The website has a visually aesthetic look and user-friendly interface.

## Project Requirements

- User registration and authentication
- Event listing and search for entertainment
- Ticket booking
- Holding data in database

## Goals of The Project

- Making a online ticket sale system.
- Implementing a website using a database.
- Learning how to work with a database.
- Using localhost for website creation.
- Learning Node.js and Express.js usage with MySQL database.
- Understanding the back-end and front-end concepts. And learning differences between them.

## Problems Encountered

- During the implementation of the project, we encountered some problems because this was our first website project. But we solved these problems by using internet sources efficiently.

## Specifications of the Project

- User Management:
  - Users can register or log in with an existing account.
  - Administrator account can manage and add events.
- Event Management:
  - Filtered events or transportation routes by type.
  - New event addition by an administrator.
- Ticket Purchase:
  - Users can browse events, select seats, and buy tickets.

## System Services:

- Signup if the user doesn't have an account.
- Login to an already existing account.
- Ticket browsing, selection and purchase.
- Administrator account that has the authority to add events, transportation routes, etc.

## Entities:

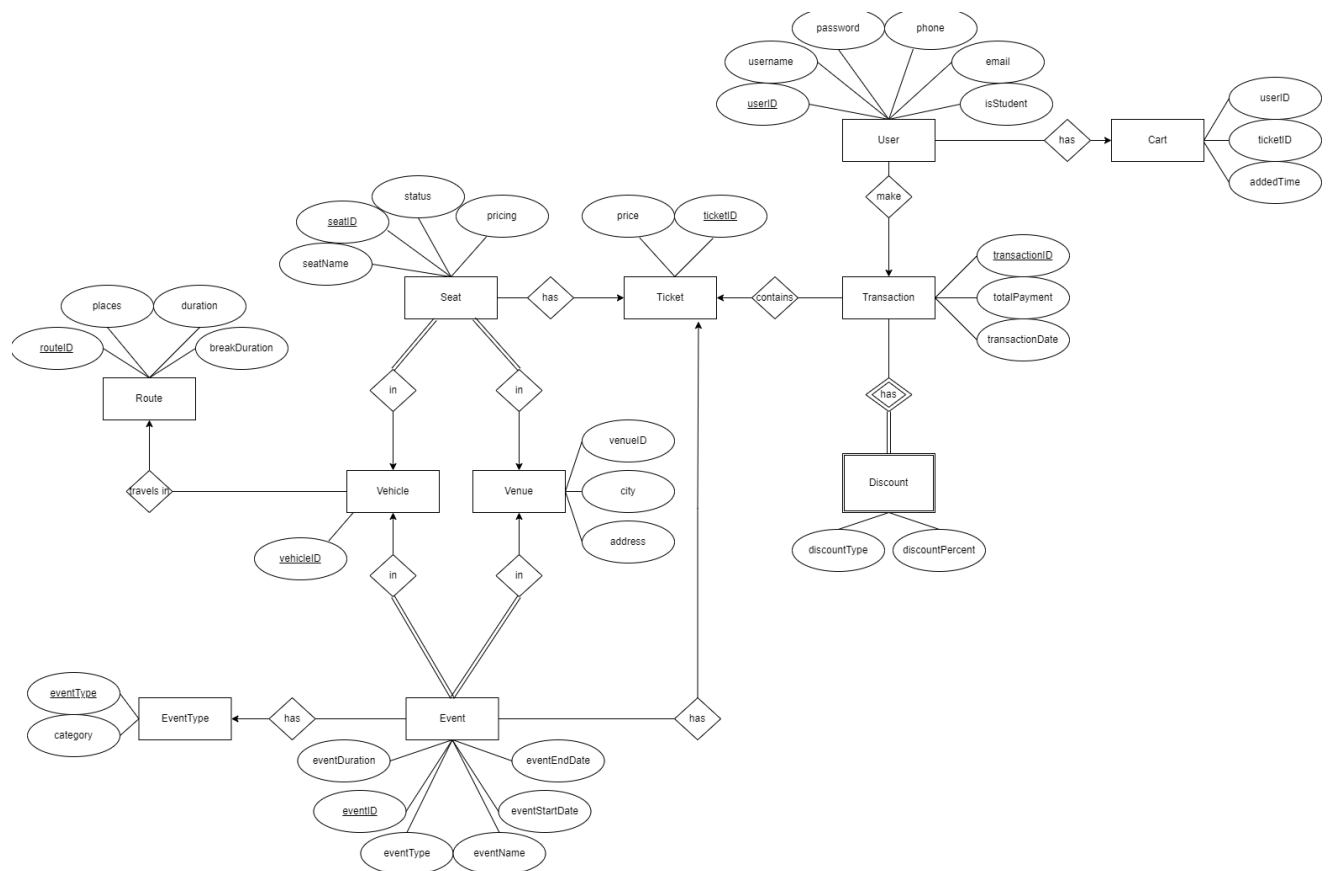
- Event, venue, seat, ticket, user, discount, vehicle, route, transaction, eventtype, cart.

## Conclusion:

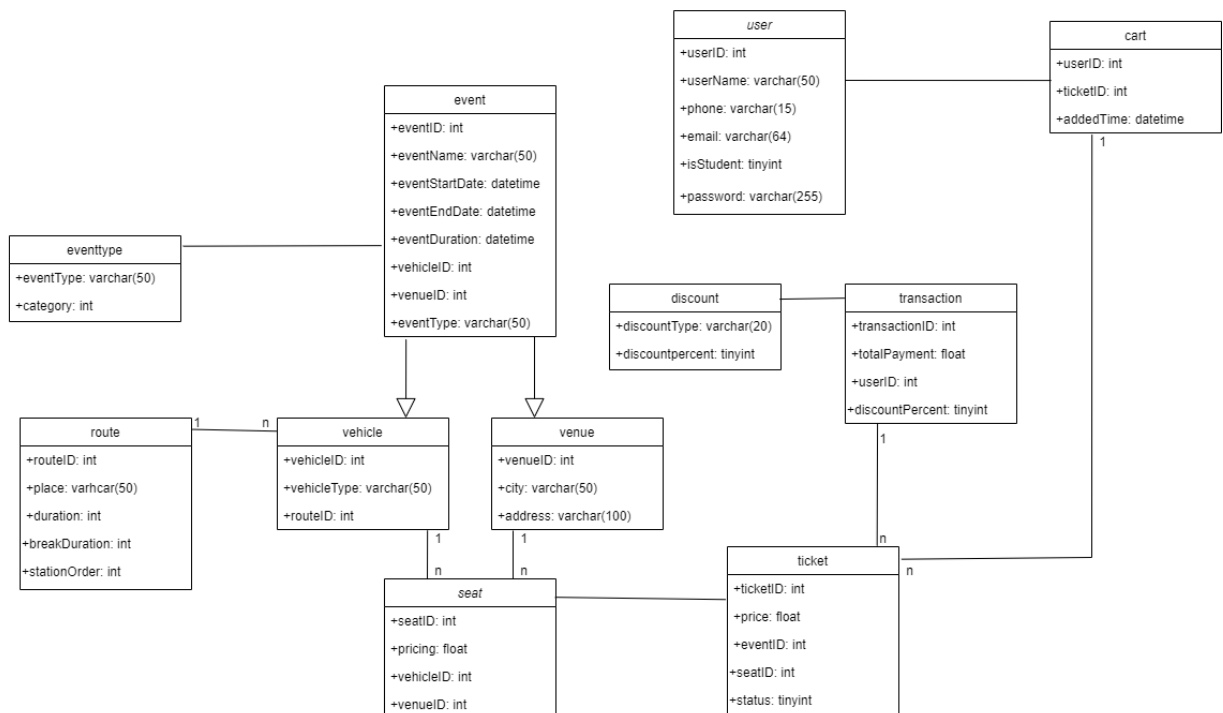
- In conclusion, this project is finished for now. But in the future, there may be additions according to feedbacks from users.

# Functional Decomposition

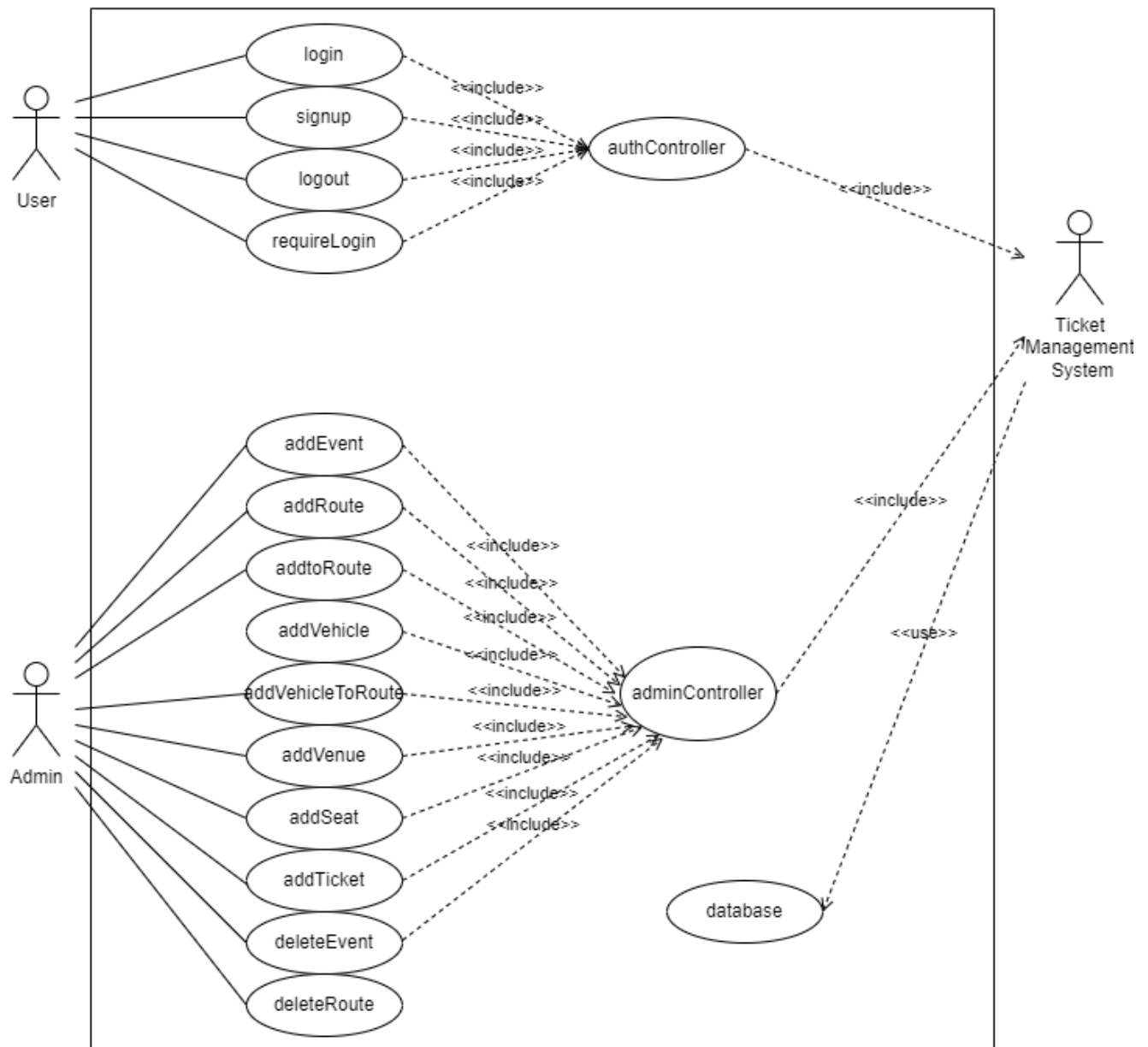
## 1) ER Diagram



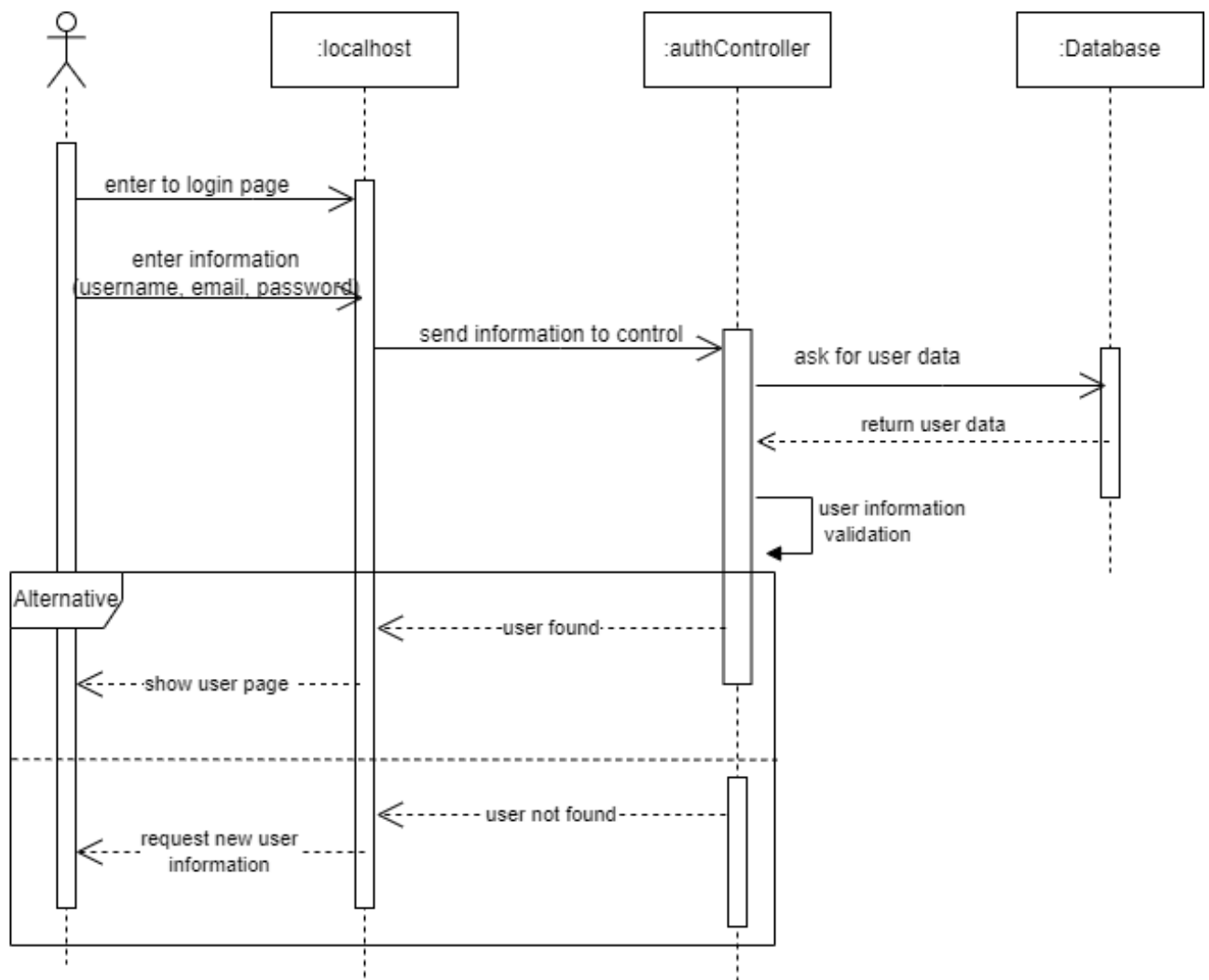
## 2) Class Diagram



### 3) Use Case Diagram

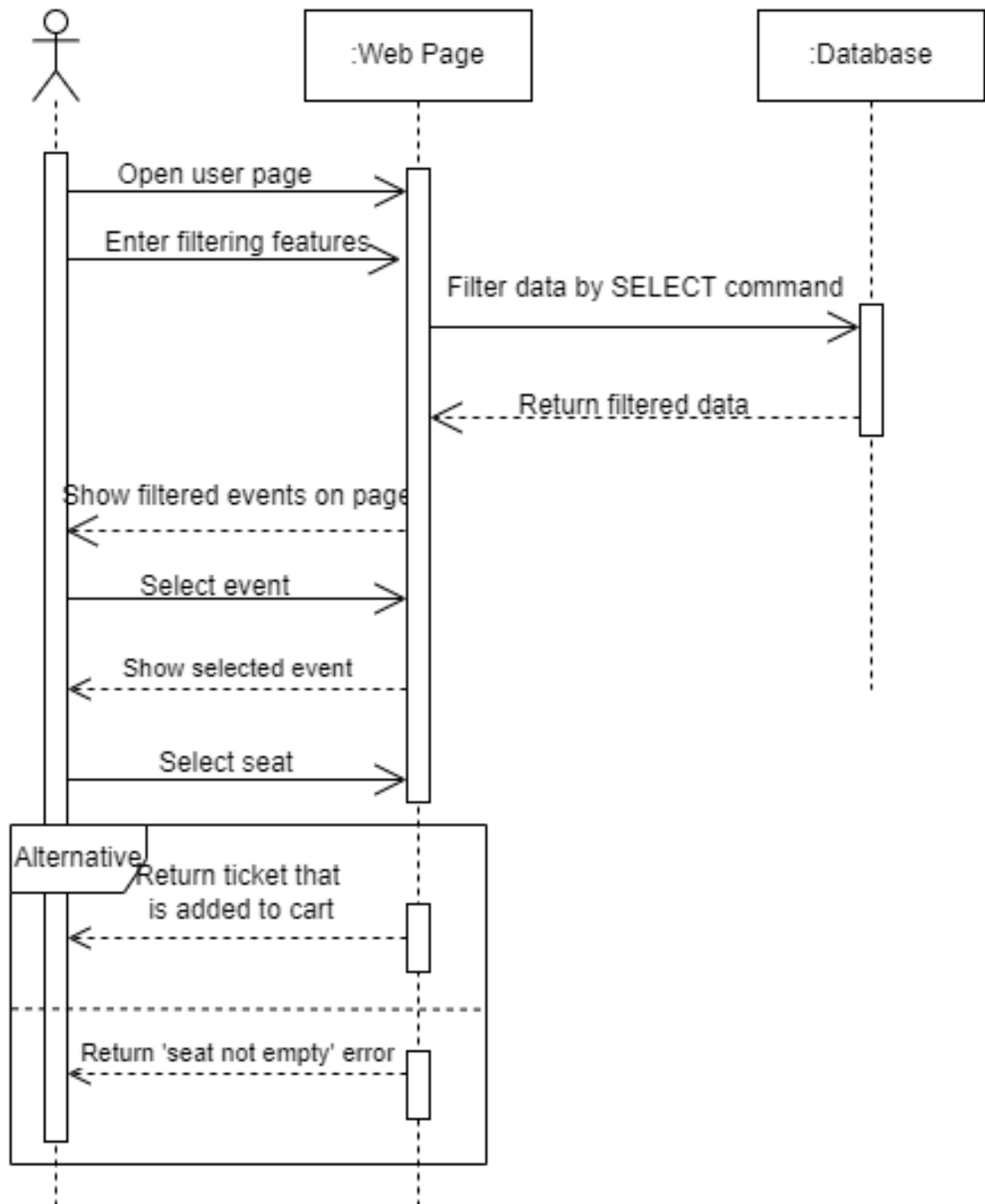


#### 4)Sequence Diagram 1

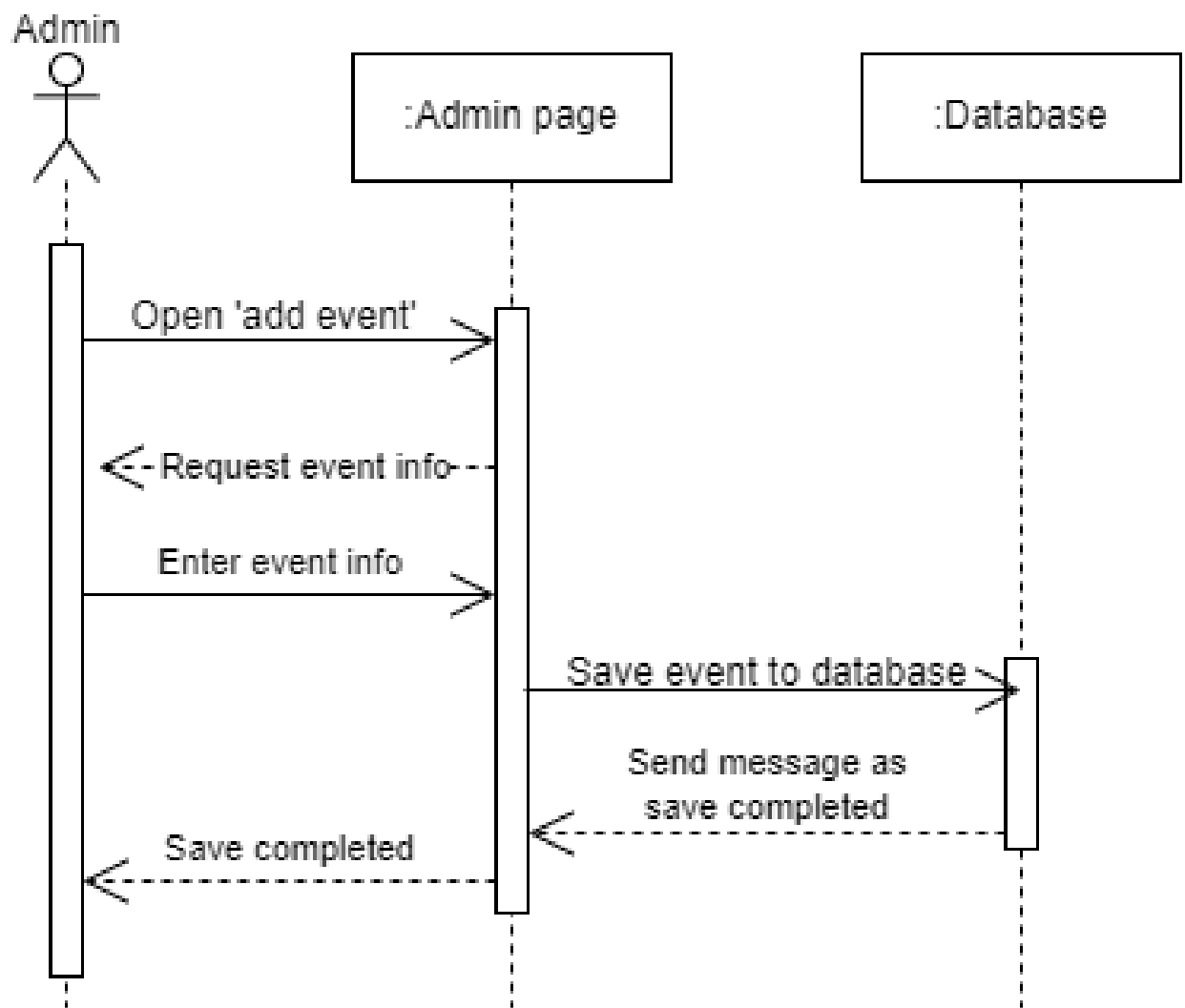


## 5) Sequence Diagram 2

Logged in user

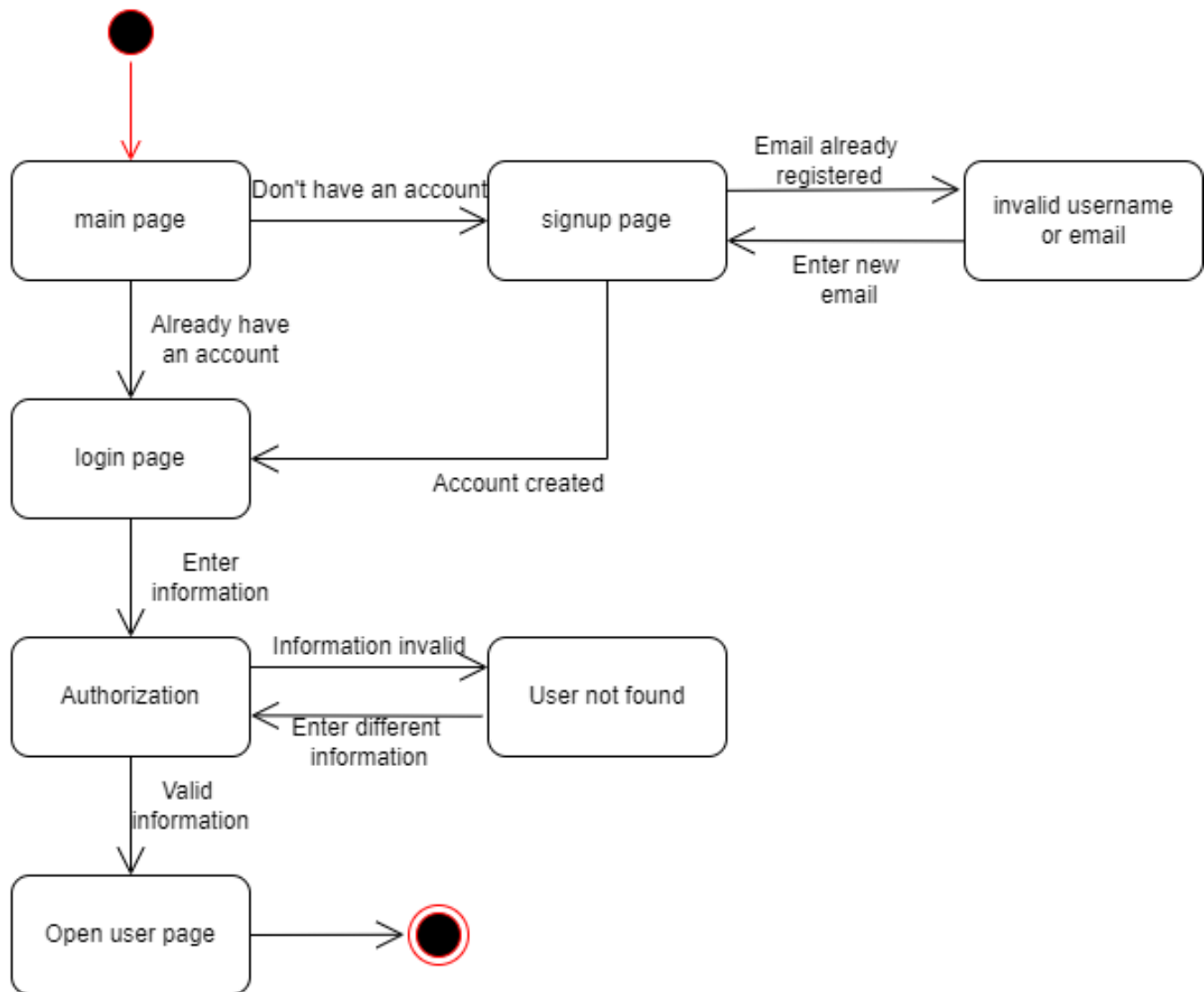


## 6)Sequence Diagram 3

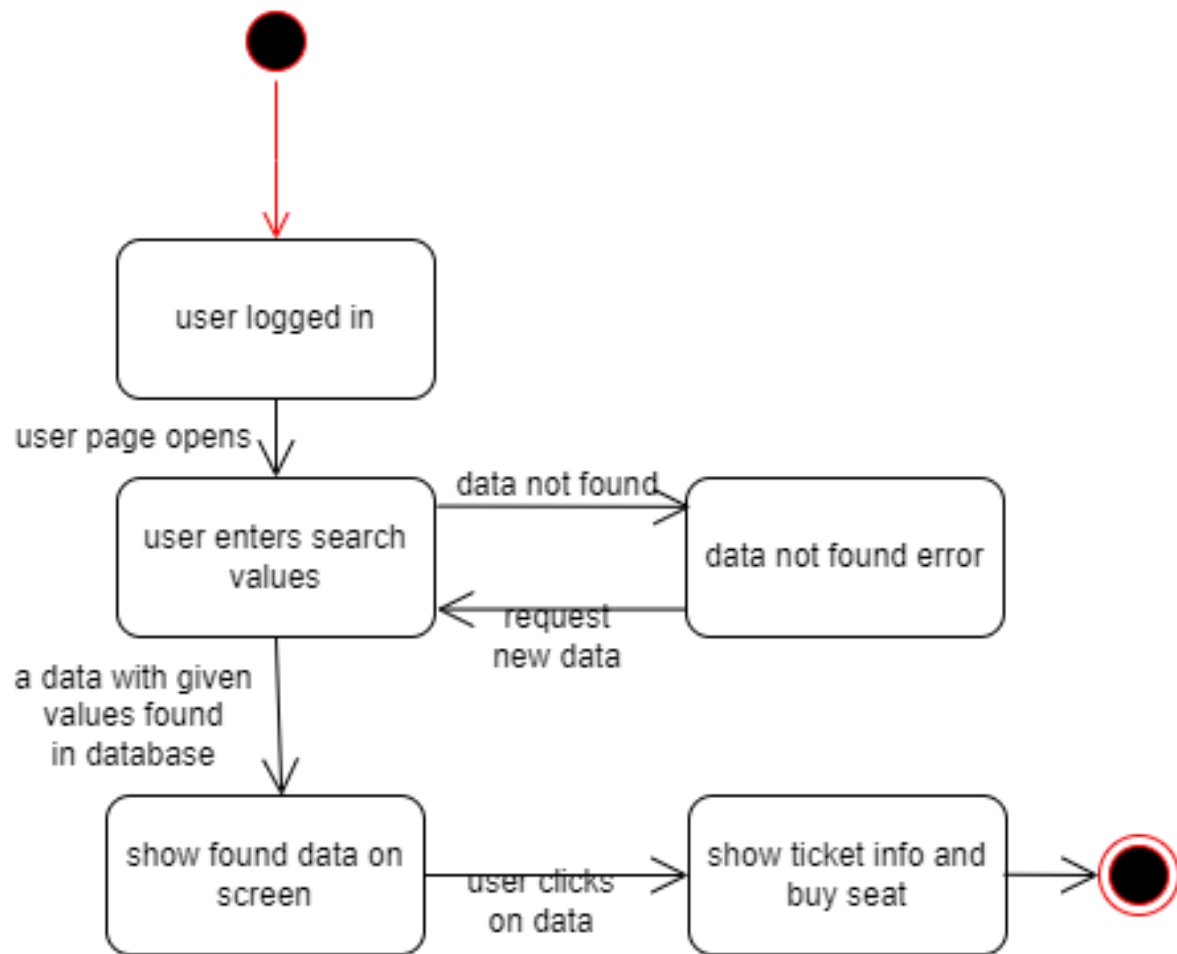




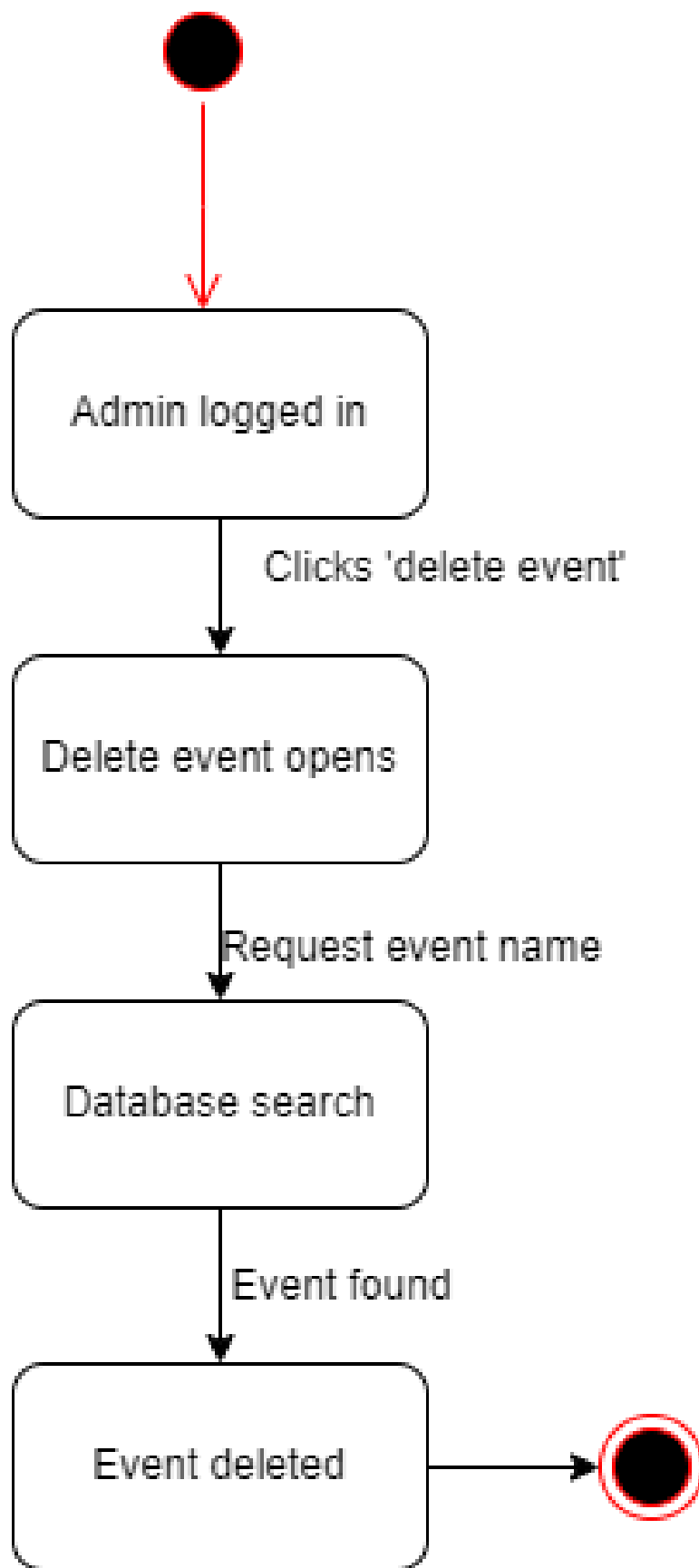
## 7)State Diagram 1



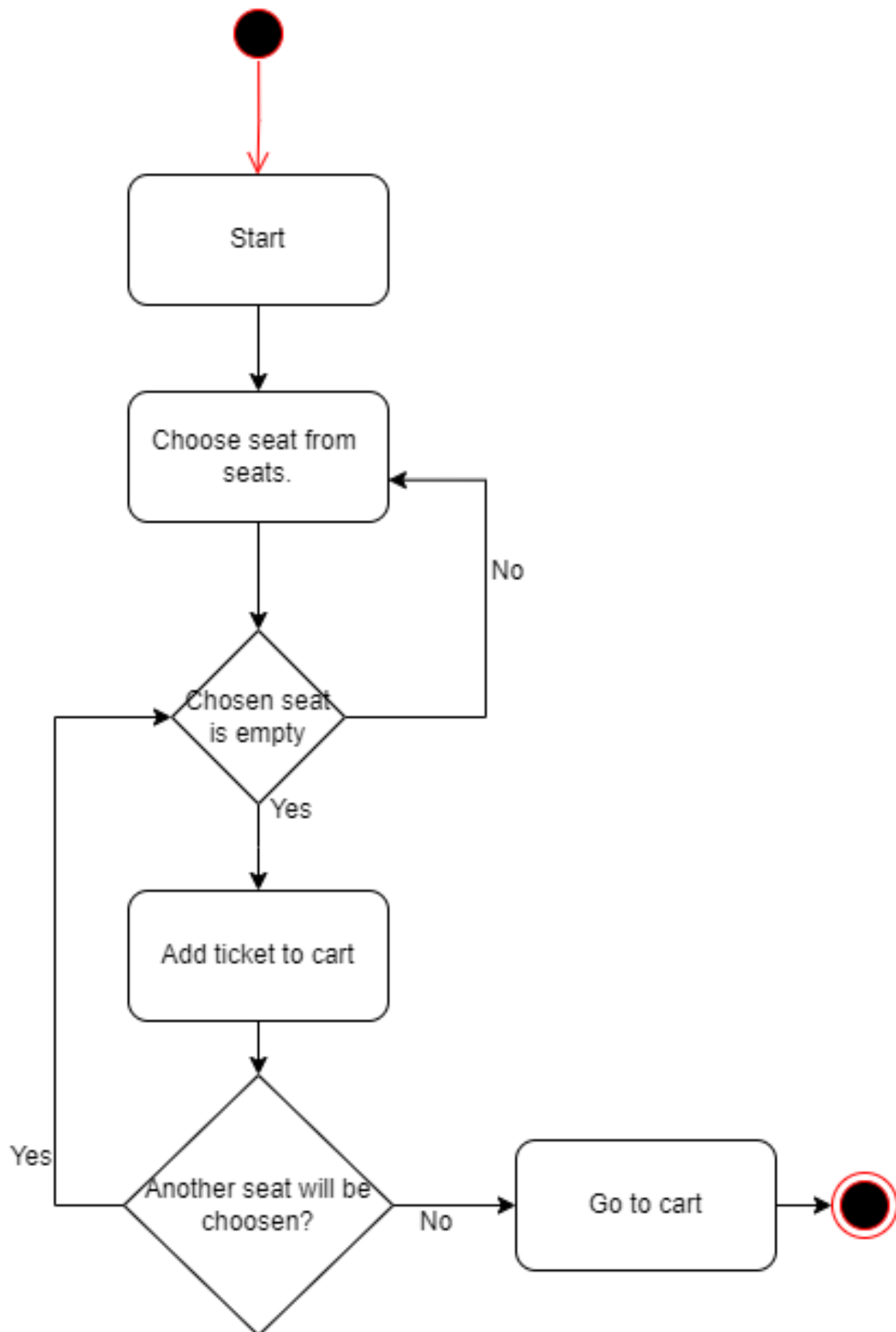
## 8)State Diagram 2



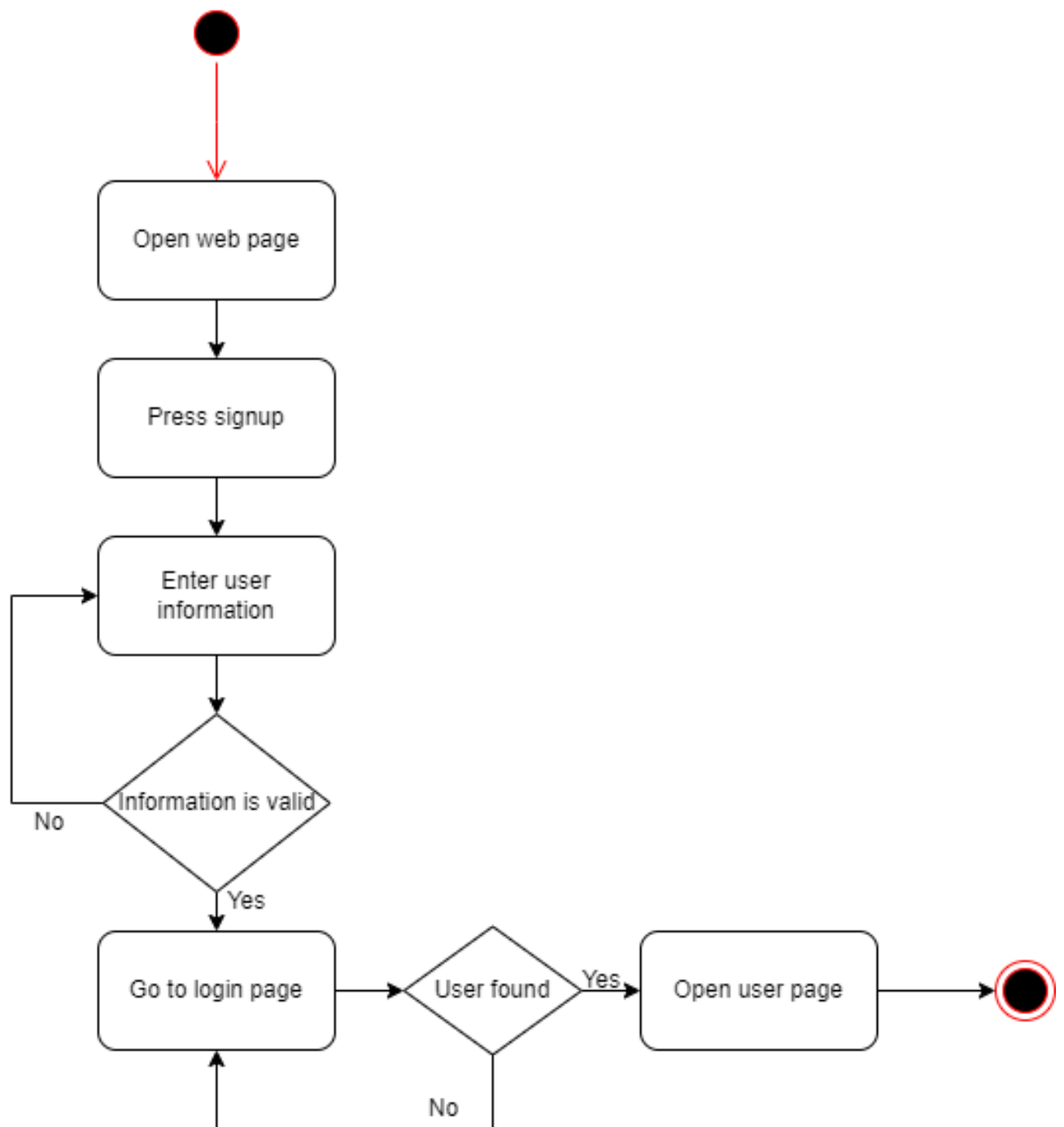
### 9) State Diagram 3



10)Activity Diagram 1



# 11)Activity Diagram 2



## 12)Activity Diagram 3

