Department of Computer Science and Engineering

Report on

Path-Way Services

Prepared for

Al Hasib Mahamud,Lecturer
Course 3324
Information System Design and Software Engineering Lab

Prepared by
Lab Section: C1

Group No: 04

Ullash Bhattacharjee , 180104103
Mostafizur Rahman , 180104112
Kaho Fardin Hasib , 170204063

Date: 12 - 08 - 2021

Data Flow Diagram:

Activities of the project:

- ❑ User Account (User, Administrator).
- ❑ Login page.
- ❑ Registration page.
- ❑ Password recovery page for user.
- ❑ Users profile section.
- ❑ Check seats for available transports according to the route & date.
- ❑ Booking or cancel Ticket.
- ❑ Contact section with the admin.
- ❑ Add new route, remove or update Route Information.
- ❑ Add new transport or remove transport.
- ❑ Handle pending tickets.

Name of Process, Entity & DB:

- ❑ **Process** : Authentication , Communication , Login , Registration , Profile (Manage profile , Edit Profile) , Manage Transport(Adding , Remove) , Manage Route (Adding , Update , Remove) , Manage Ticket(Pending).

- ❑ **Entities** : Admin, User, Route , Bus- Schedule, Transaction , Seat-Information .

- ❑ **Databases** : Single database where store every kinds of entities information .

Construction of the context level diagram:

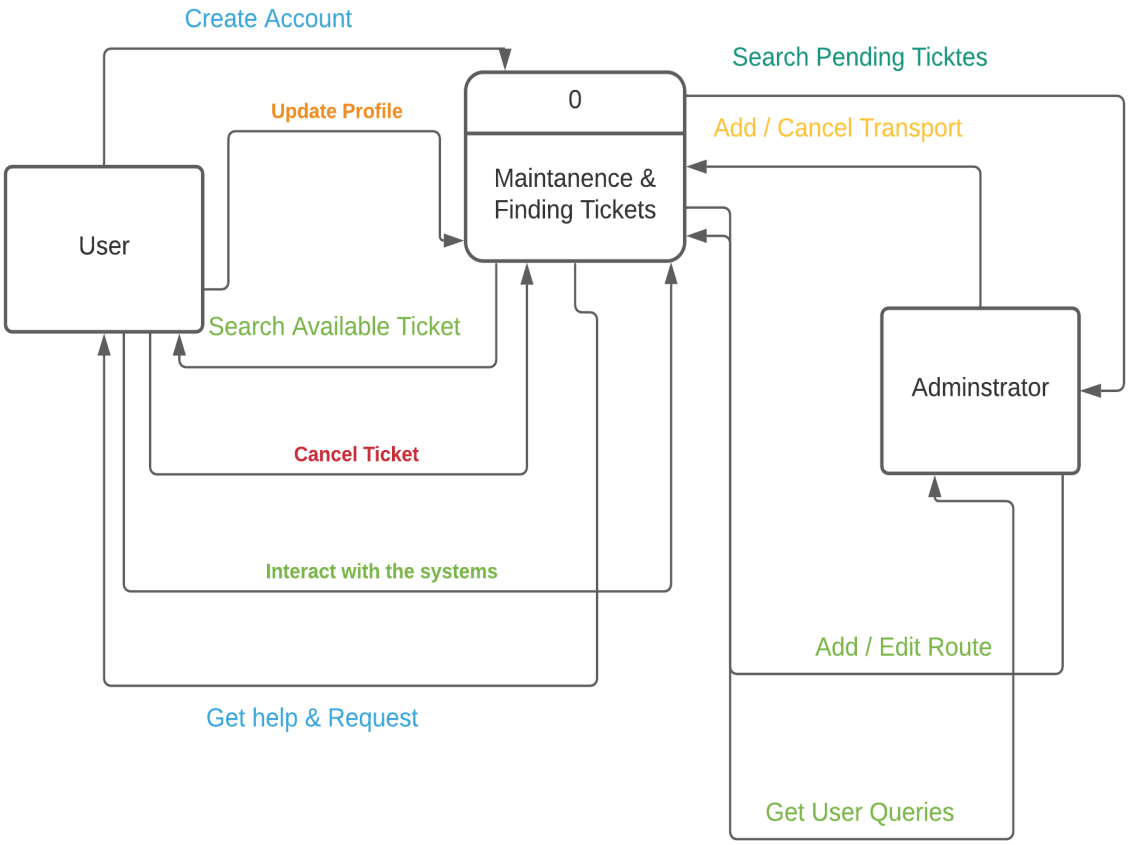

Figure: Level 0 Diagram

Construction of Level 1 diagram:

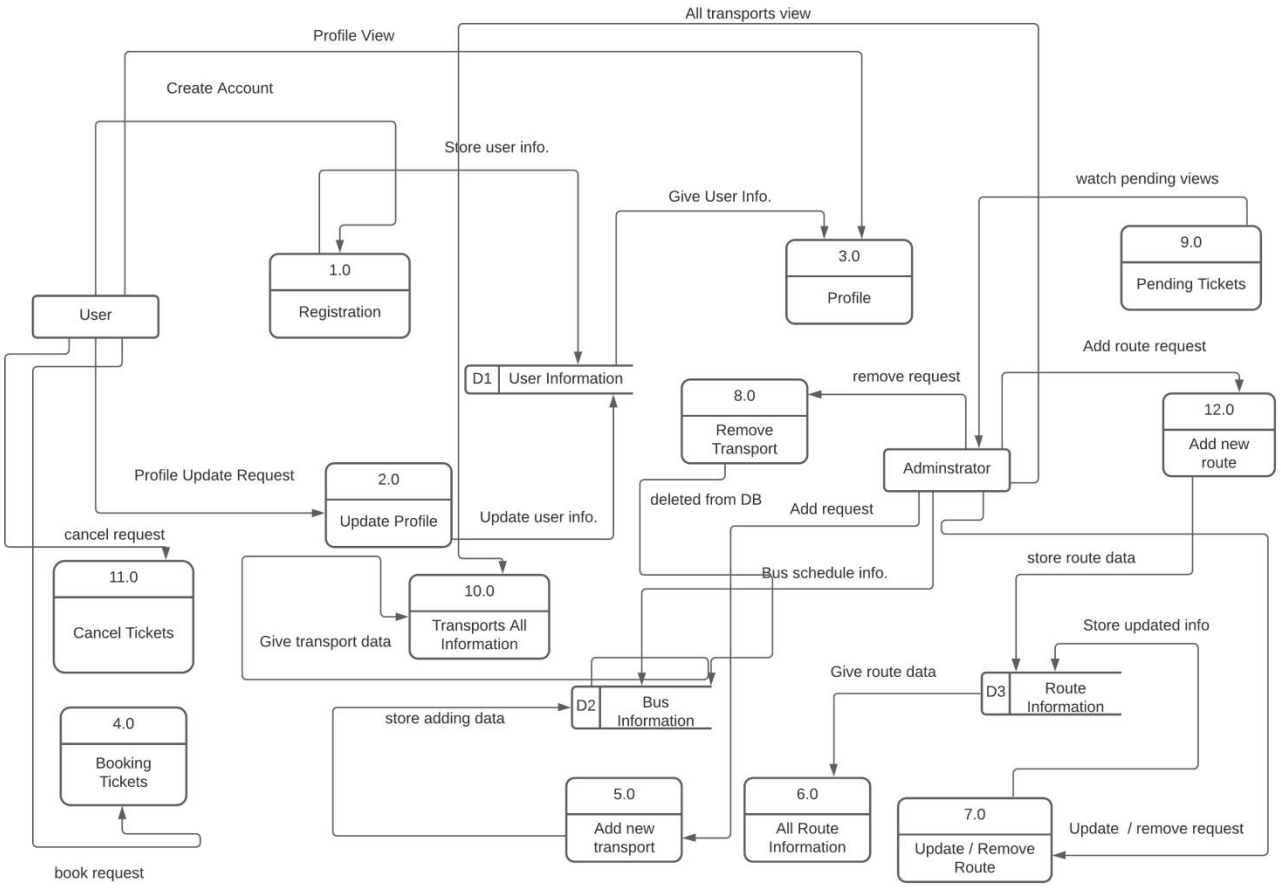

Figure: Level 1 Diagram

Construction of Level 2 diagram:

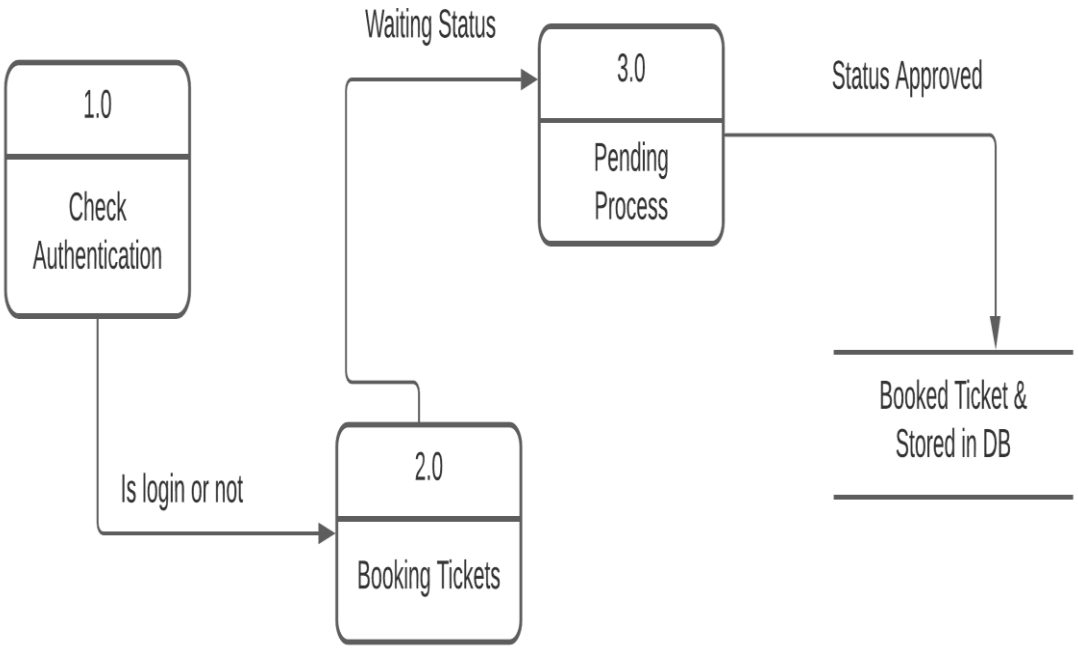

Figure: Level 2 Diagram

Use Case Diagram:

- **Actors:** Admin, User.
- **Use Cases:** Login Subsystem

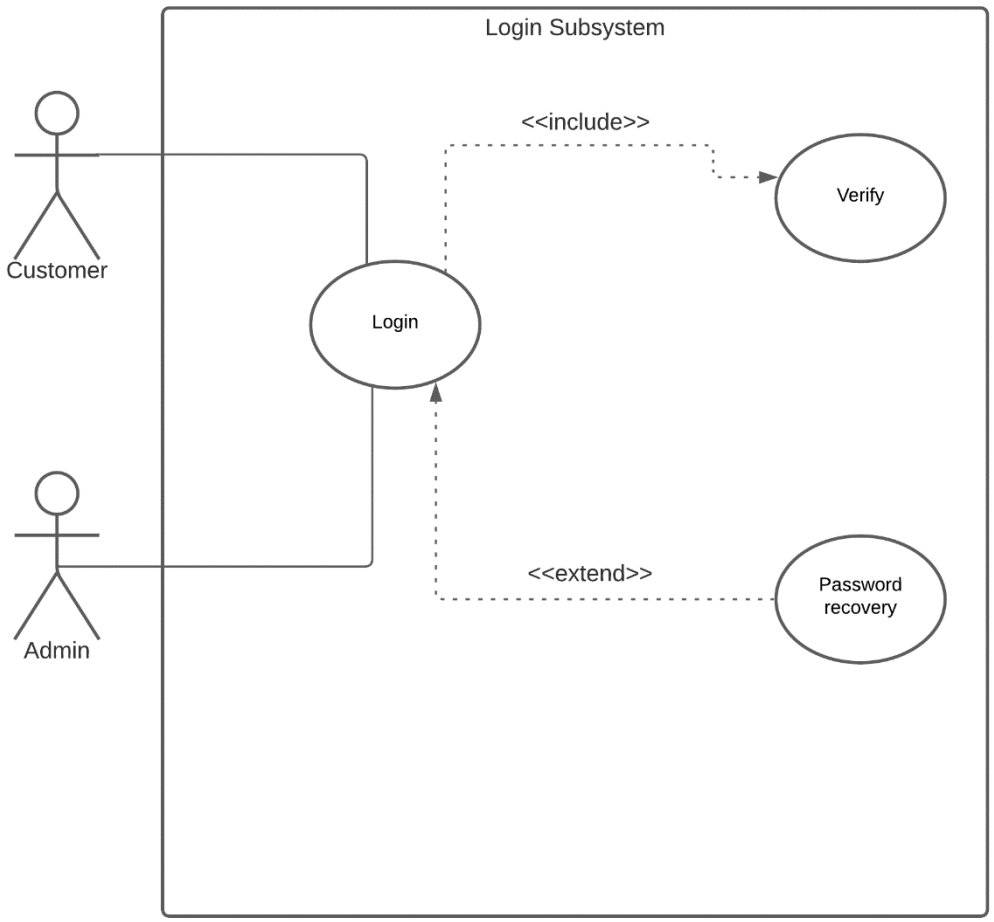

Figure: Login Subsystem Diagram

Use Case Narrative:

Use Case Title:	**Login.**
Primary Actor:	**User (Officer, Admin).**
Goal in Context:	**To Register and get username and password for login and get access our website.**
Precondition:	**Must have to be member by registration and get username for login.**
Scenario:	**From login page user have to login into the system.**
Exception:	**Login with correct password or recovery password.**
Priority:	**High priority.**
Channel to actor:	**PC – Browser.**

Use Case Diagram:

- **Actors:** Non- User.
- **Use Cases:** Registration Subsystem.

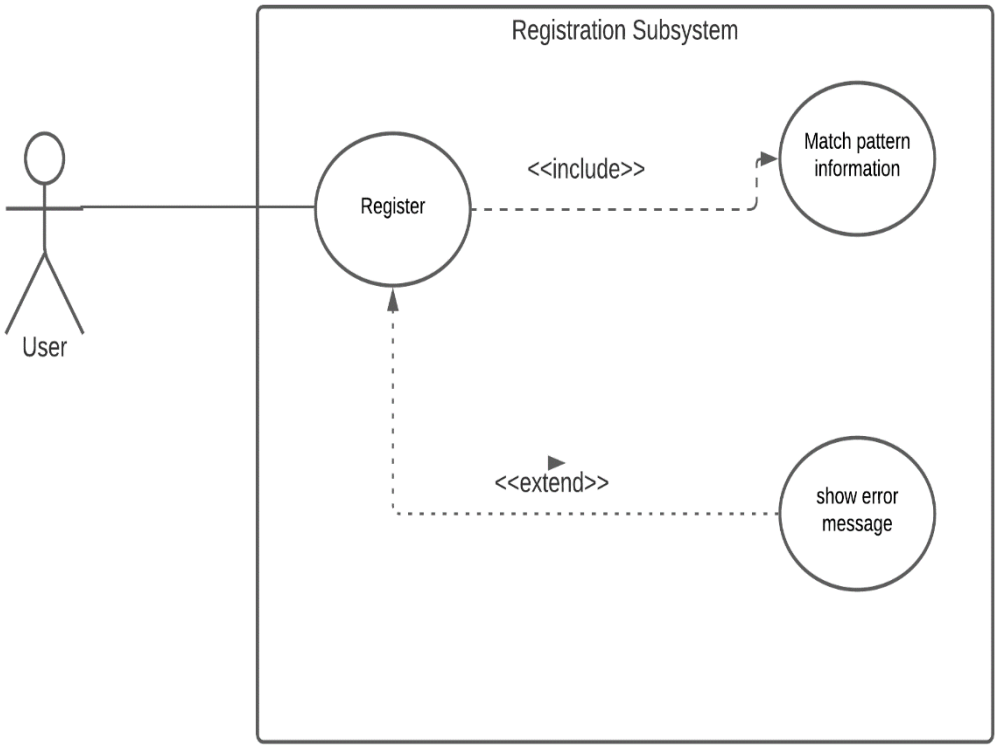

Figure: Registration Subsystem Diagram

Use Case Narrative:

Use Case Title:	**Registration Subsystem.**
Primary Actor:	**Non - User.**
Goal in Context:	**To login and access the website.**
Precondition:	**Non users should click on the sign up button filling all the information to be regular user.**
Scenario:	**From registration page non - user can find some text field to fill their information.**
Priority:	**Low priority (depends on customer mind).**
Channel to actor:	**PC – Browser.**

Use Case Diagram:

- **Actors:** User.
- **Use Cases:** Profile Subsystem (manage profile, edit profile).

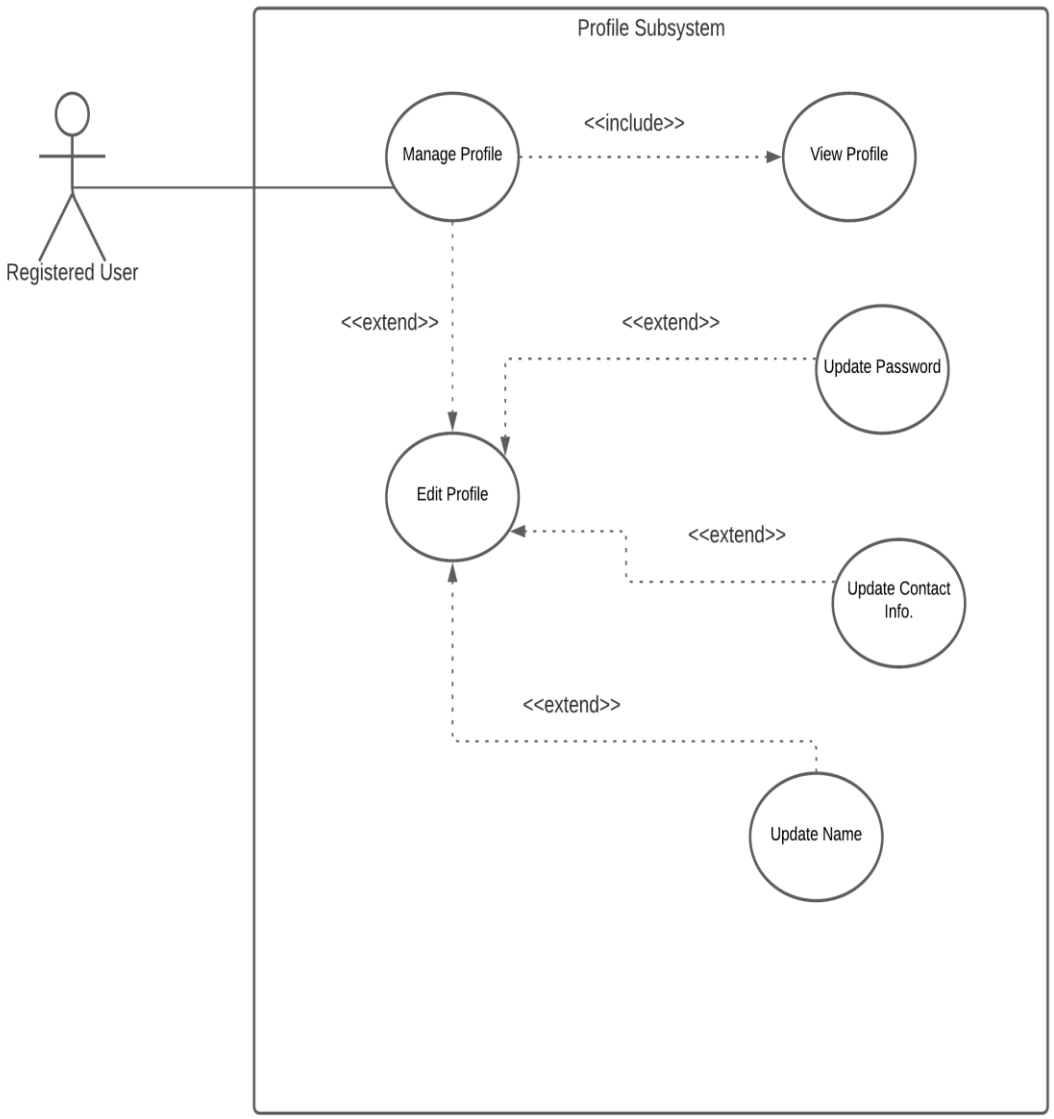

Figure: Profile Subsystem Diagram

Use Case Narrative:

Use Case Title:	**Manage Profile.**
Primary Actor:	**User.**
Goal in Context:	**To watch “my profile” information.**
Precondition:	**Must have an account to the website.**
Scenario:	**Users can watch their detail information.**
Priority:	**High priority.**
Channel to actor:	**PC Browser.**

Use Case Narrative:

Use Case Title:	**Edit Profile.**
Primary Actor:	**User.**
Goal in Context:	**To edit profile section.**
Precondition:	**Must have an account to the website.**
Scenario:	**Users can watch some text field to update their information.**
Priority:	**Low priority.**
Channel to actor:	**PC Browser.**

Use Case Diagram:

- **Actors:** User, Non – User.
- **Use Cases:** Communication Subsystem.

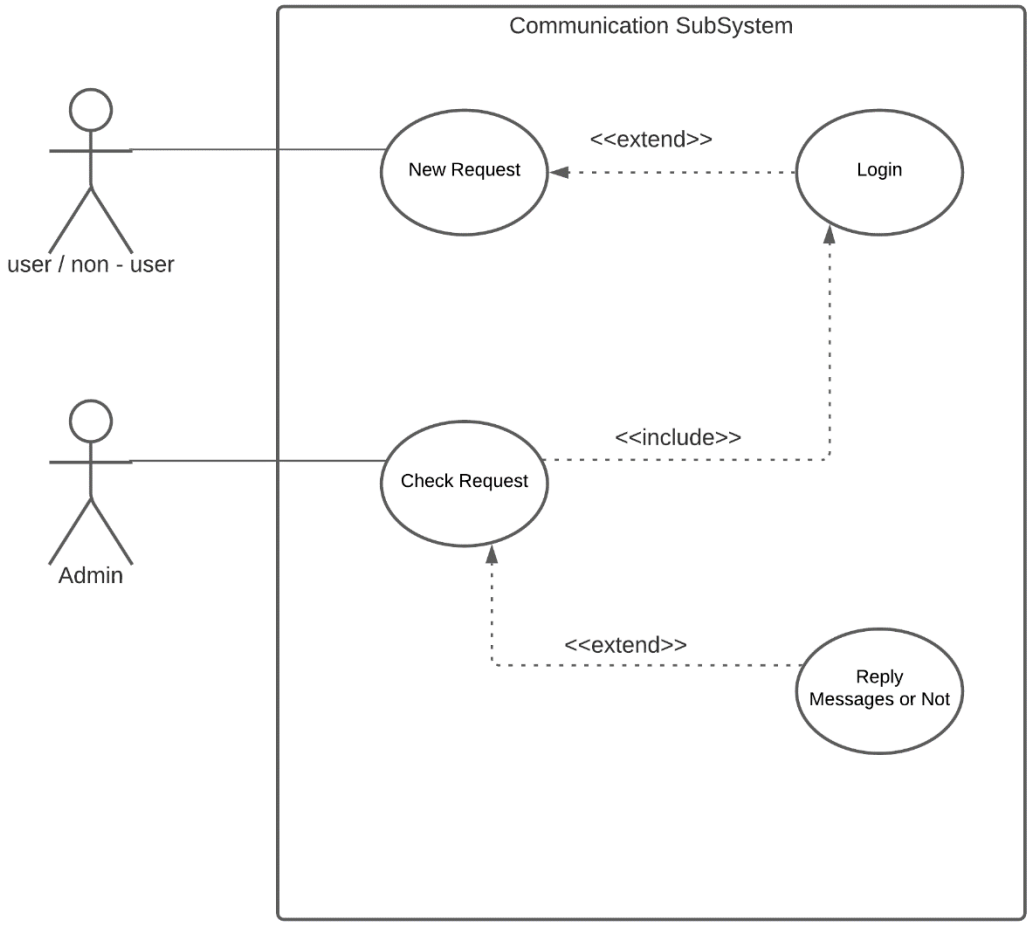

Figure: Communication Subsystem Diagram

Use Case Narrative:

Use Case Title:	**Communication.**
Primary Actor:	**User, Non User.**
Goal in Context:	**To contact with the admin for giving feedback or knowing something.**
Scenario:	**Showing a contact page with some text field and a button to send the message.**
Priority:	**Medium priority.**
Channel to actor:	**PC Browser.**

Use Case Diagram:

- **Actors:** Admin.
- **Use Cases:** Manage System (Transport & Route).

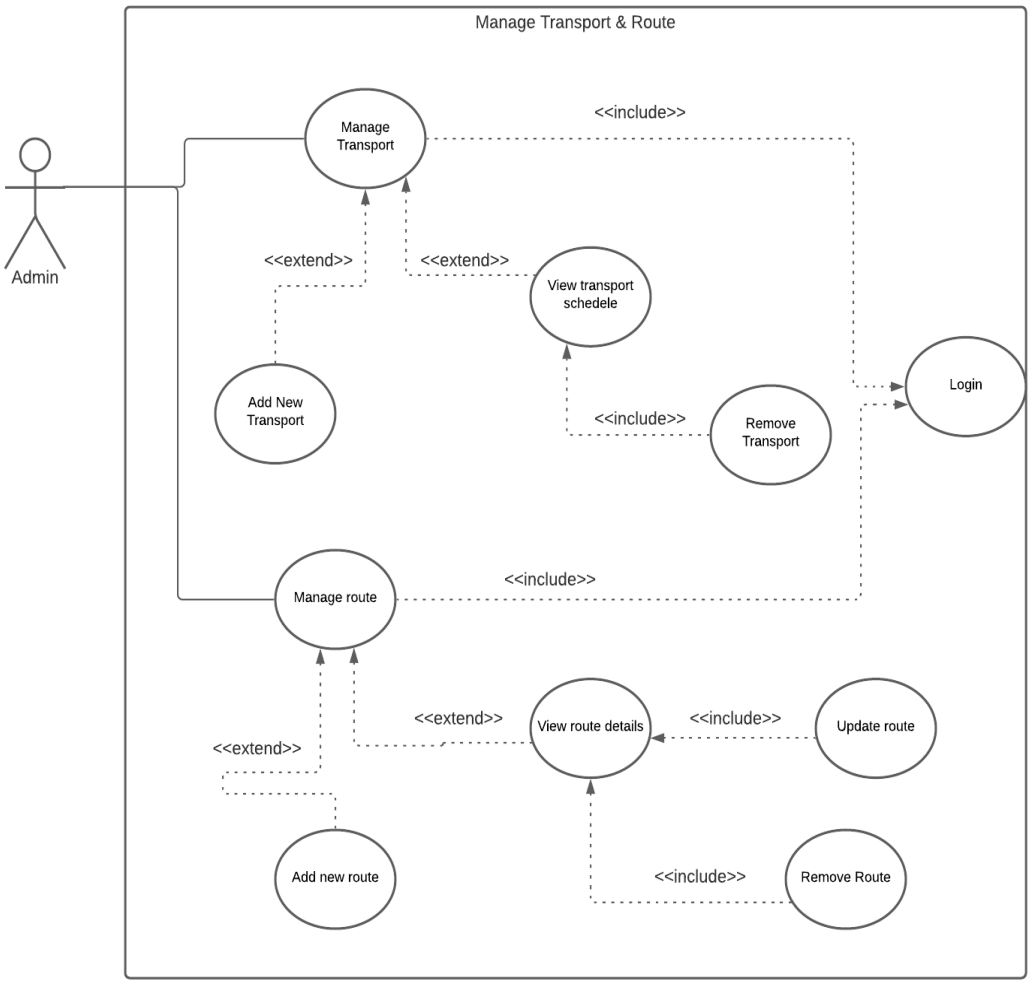

Figure: Manage System (Transportation & Route) Diagram

Use Case Narrative:

Use Case Title:	**Manage Transport.**
Primary Actor:	**Admin.**
Goal in Context:	**To manage transports every feature related to the E-Ticketing Service.**
Precondition:	**Must have an account to configure.**
Scenario:	**From manage page admin can add , remove new transport , transports schedule , users pending tickets etc.**
Priority:	**High priority**
Channel to actor:	**PC Browser.**

Use Case Narrative:

Use Case Title:	**Manage Route.**
Primary Actor:	**Admin.**
Goal in Context:	**To manage newly added route.**
Precondition:	**Must have an account to configure.**
Scenario:	**From manage page admin can add, remove or update new route.**
Priority:	**High priority.**
Channel to actor:	**PC Browser.**

Use Case Diagram:

- **Actors:** User.
- **Use Cases:** Manage Ticket Subsystem.

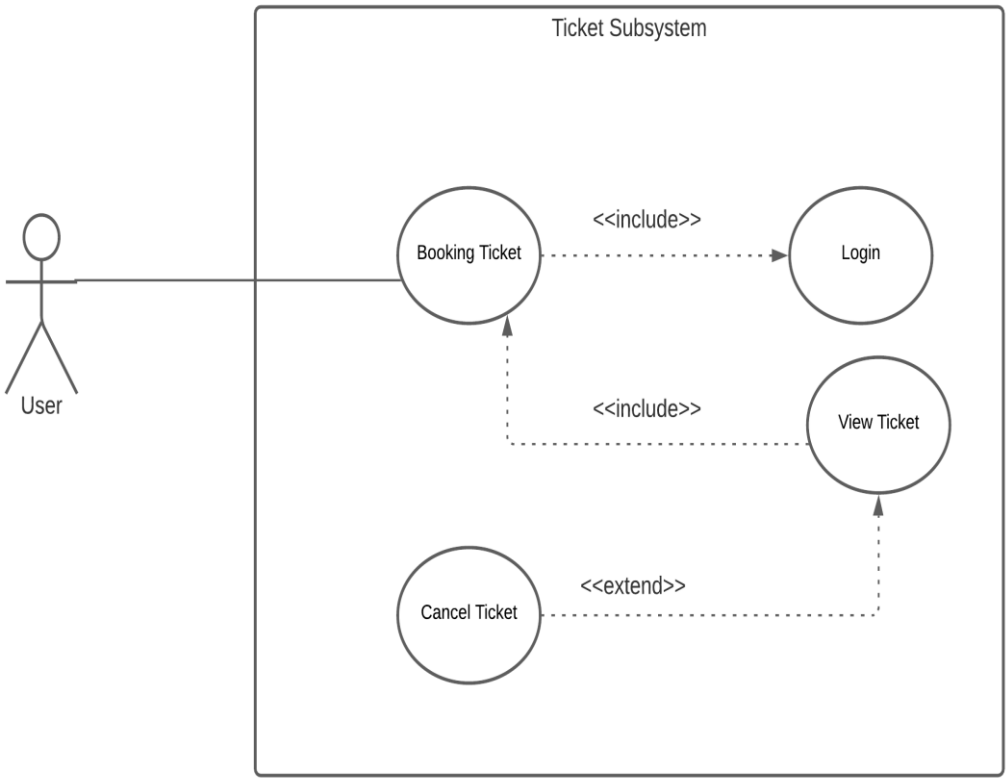

Figure: Ticket Subsystem Diagram

Use Case Narrative:

Use Case Title:	**Manage Ticket.**
Primary Actor:	**User.**
Goal in Context:	**To book or cancel tickets.**
Precondition:	**User must have an account.**
Scenario:	**From this page, user confirm can book ticket or cancel ticket.**
Priority:	**High priority.**
Channel to actor:	**PC Browser.**

Conclusion:

By using Data Flow Diagram and Use case we can have an overall view of the whole project. Since data flow diagram (DFD) is a visual representation of the information flow through a process or system and Use-case diagram describe the high-level functions and scope of a system as a result both diagrams make it much more easier to understand and helps us to make a proper structure for this project. It also helps us to identify what is most important for our project. So building a DFD and Use-case for our project is a very important and a fundamental procedure.