Assignment #4

System Design
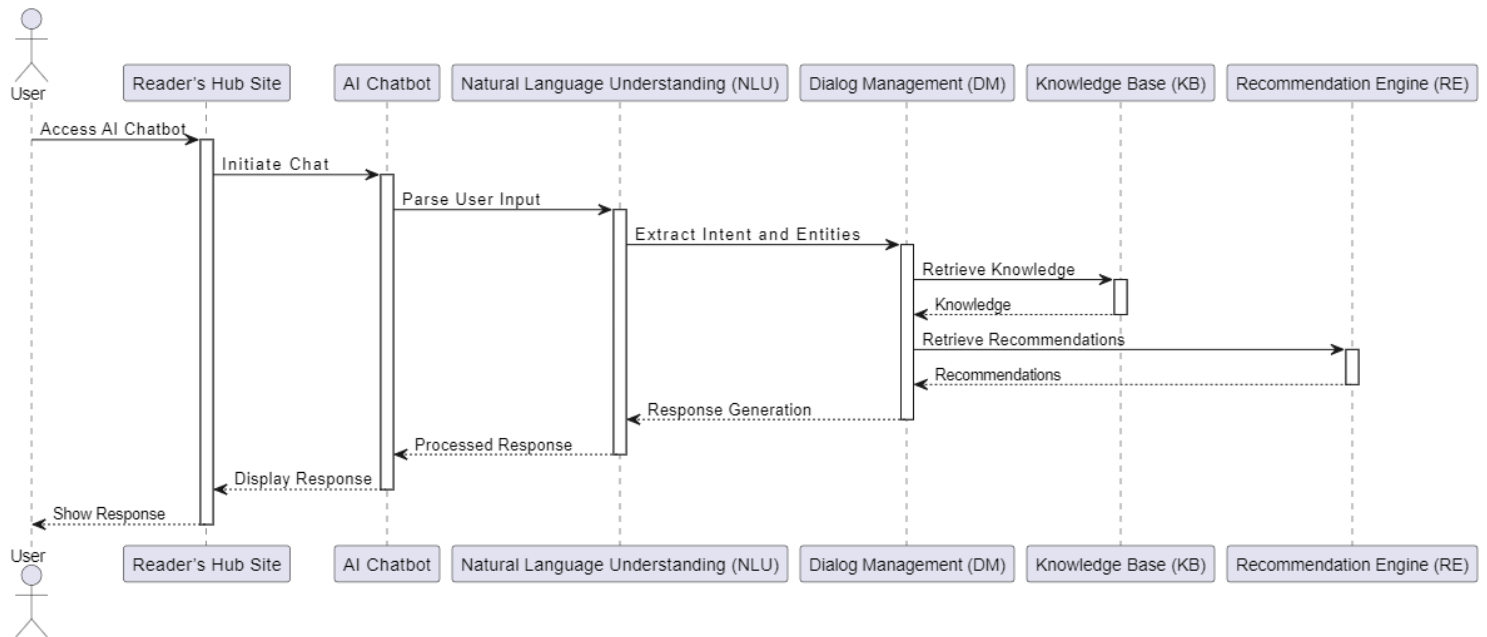
Project:

Readers Hub

Group Members:

Menaal Malik 261935148

Zainab Gull Khan 261941006
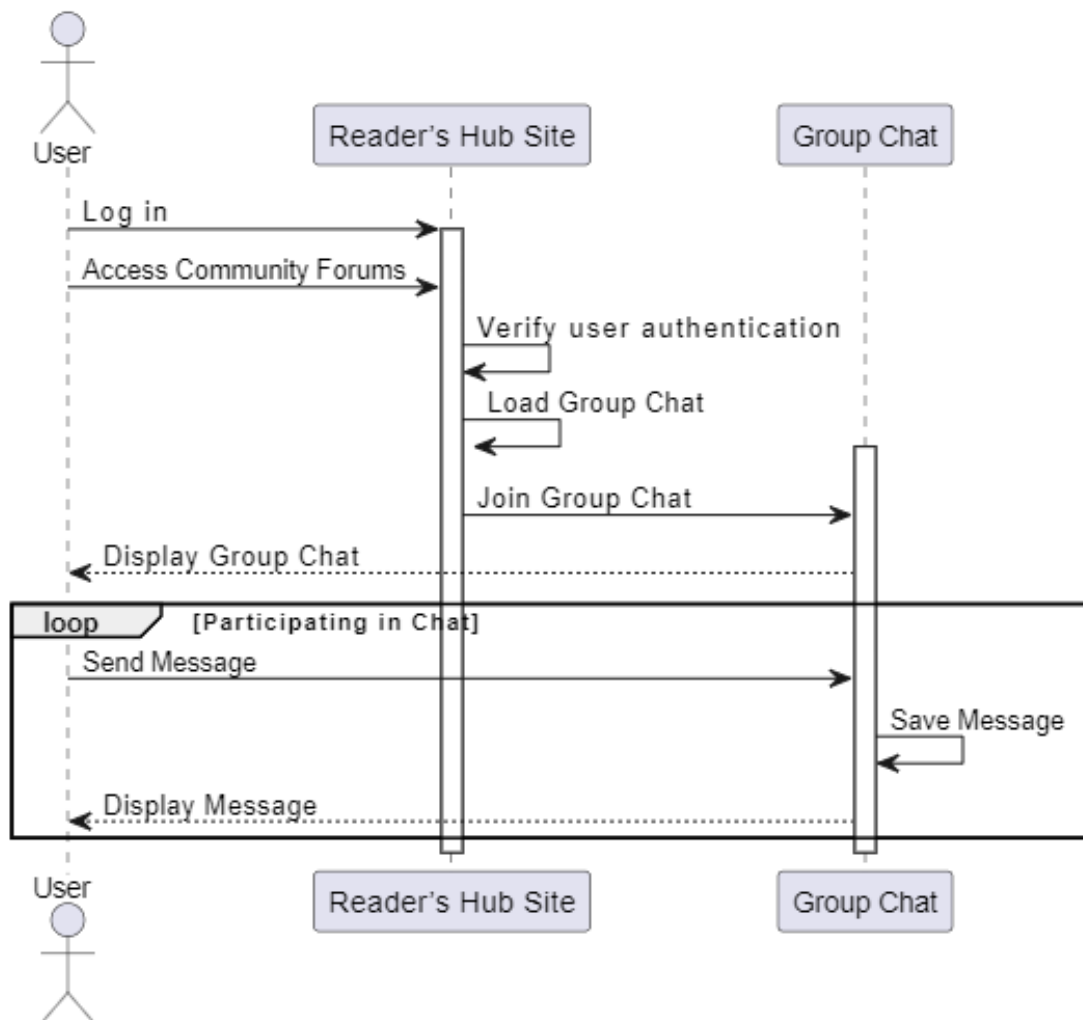
Minahil Shahid 241496647
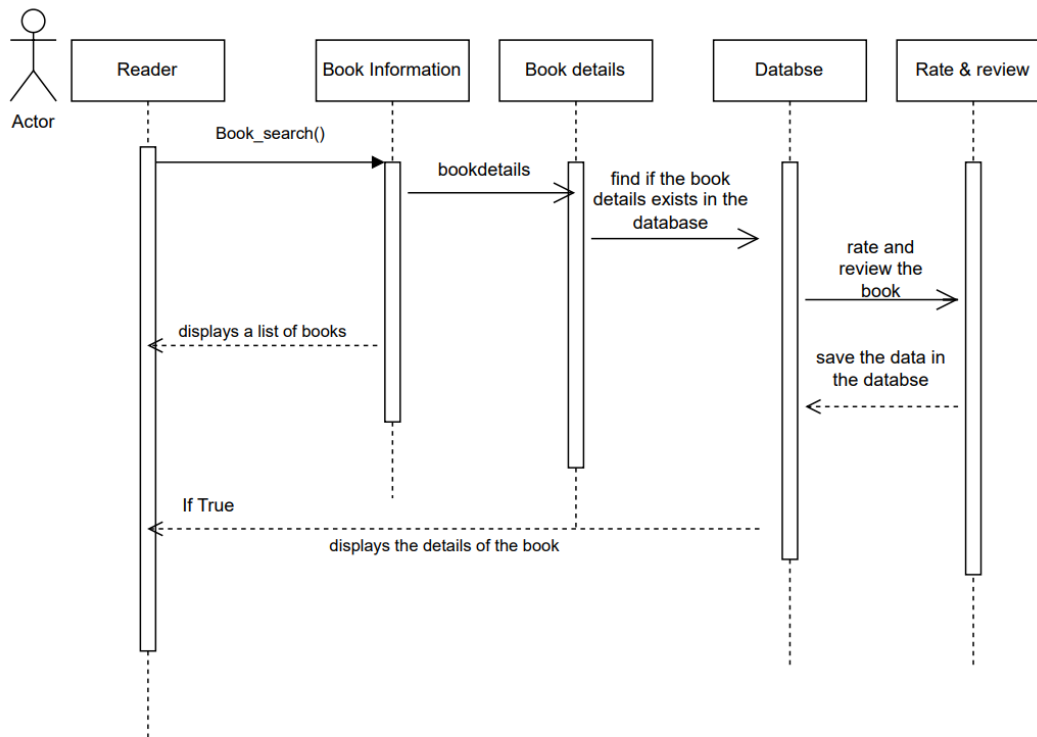
Sequence Diagrams:

1. AI chatbot:

2. Participating in group chats:

3. Rate and Review:

4. Search Books:

5. View User History & Connect with Nearby Book Stores:

6. Recommendation:
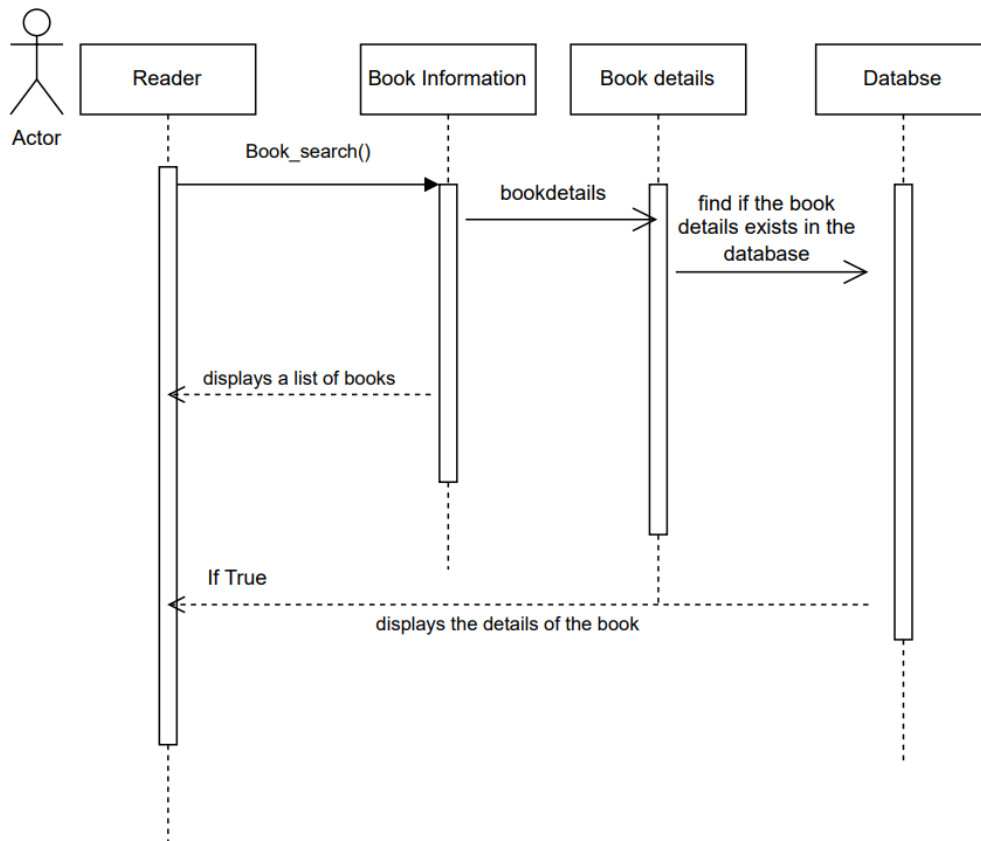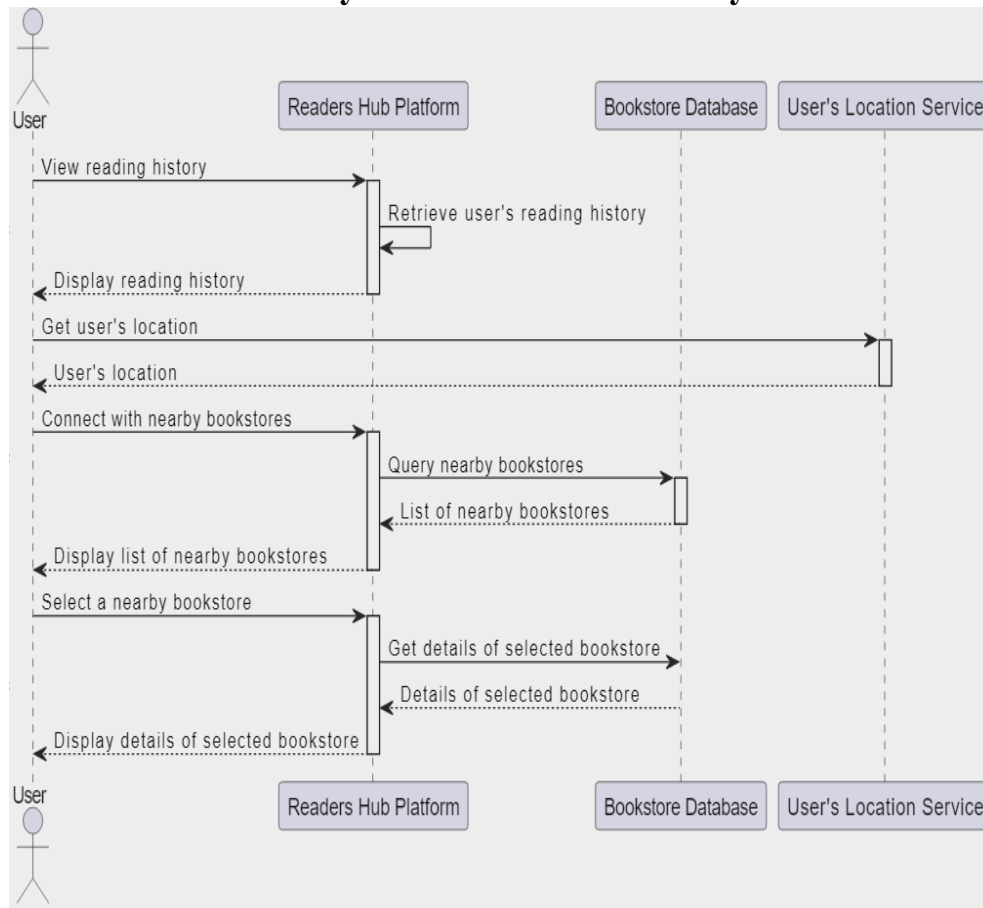
State Diagrams:

1. AI Chatbot:

2. Participating in group chats:

3. Rate and Review:
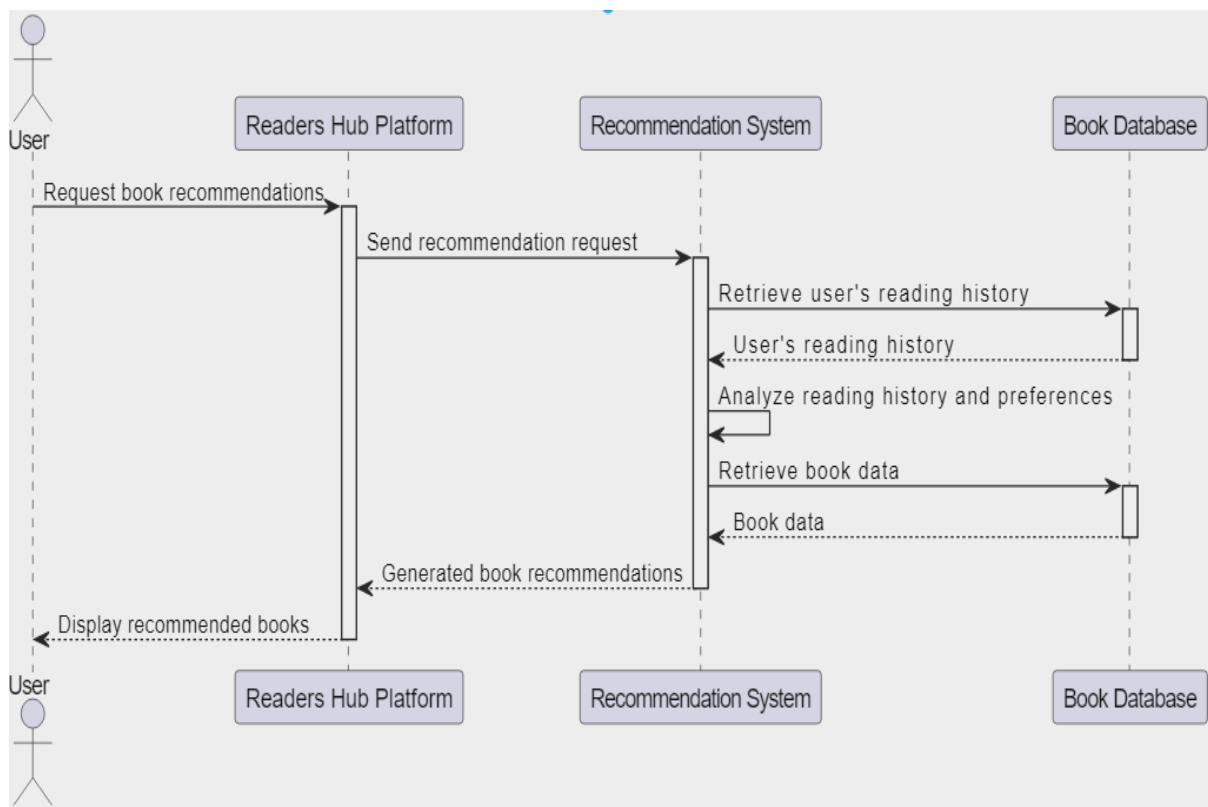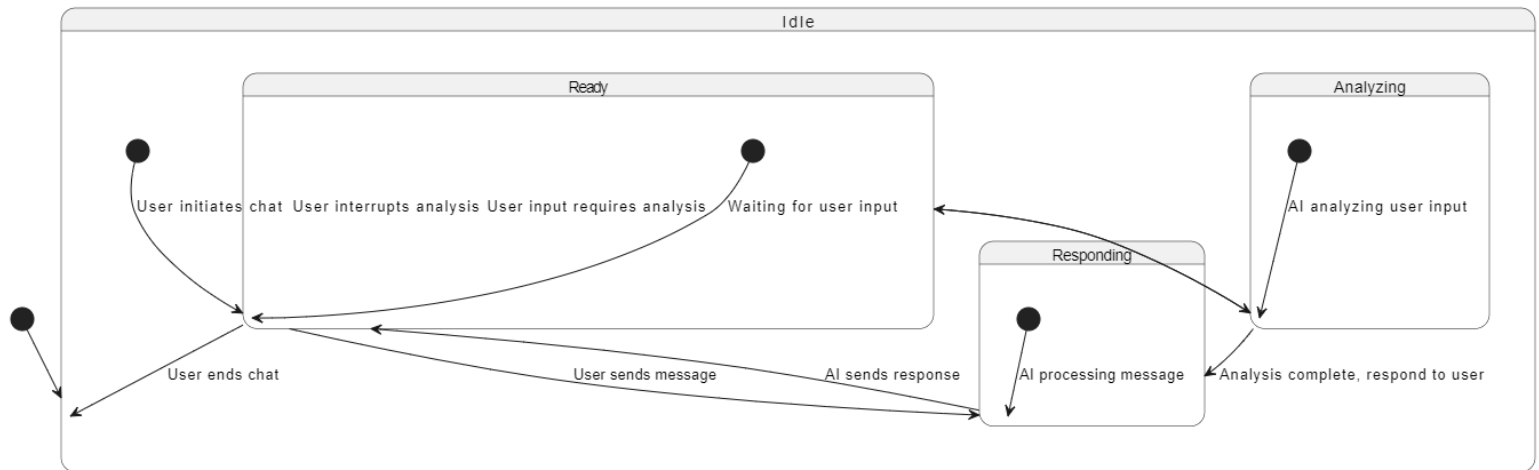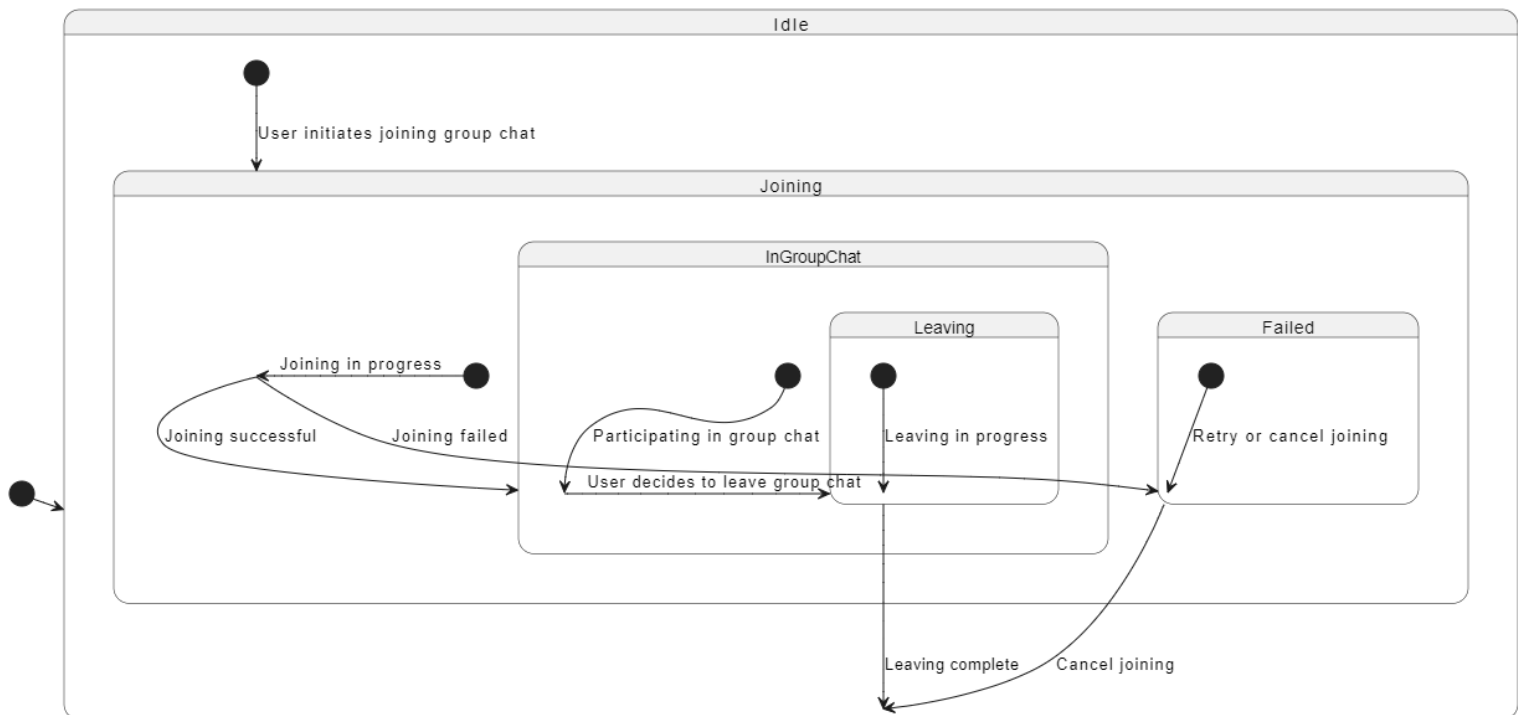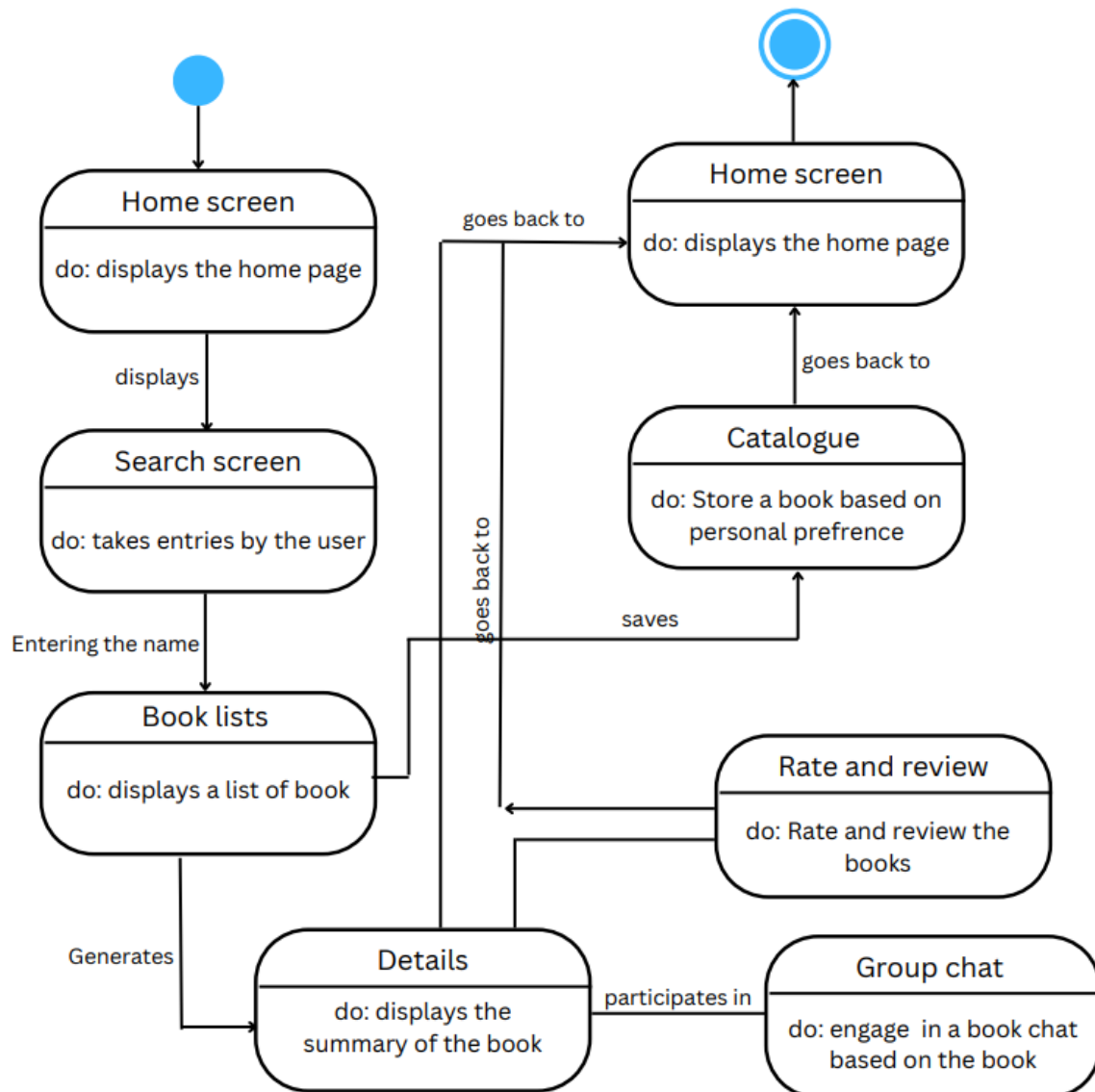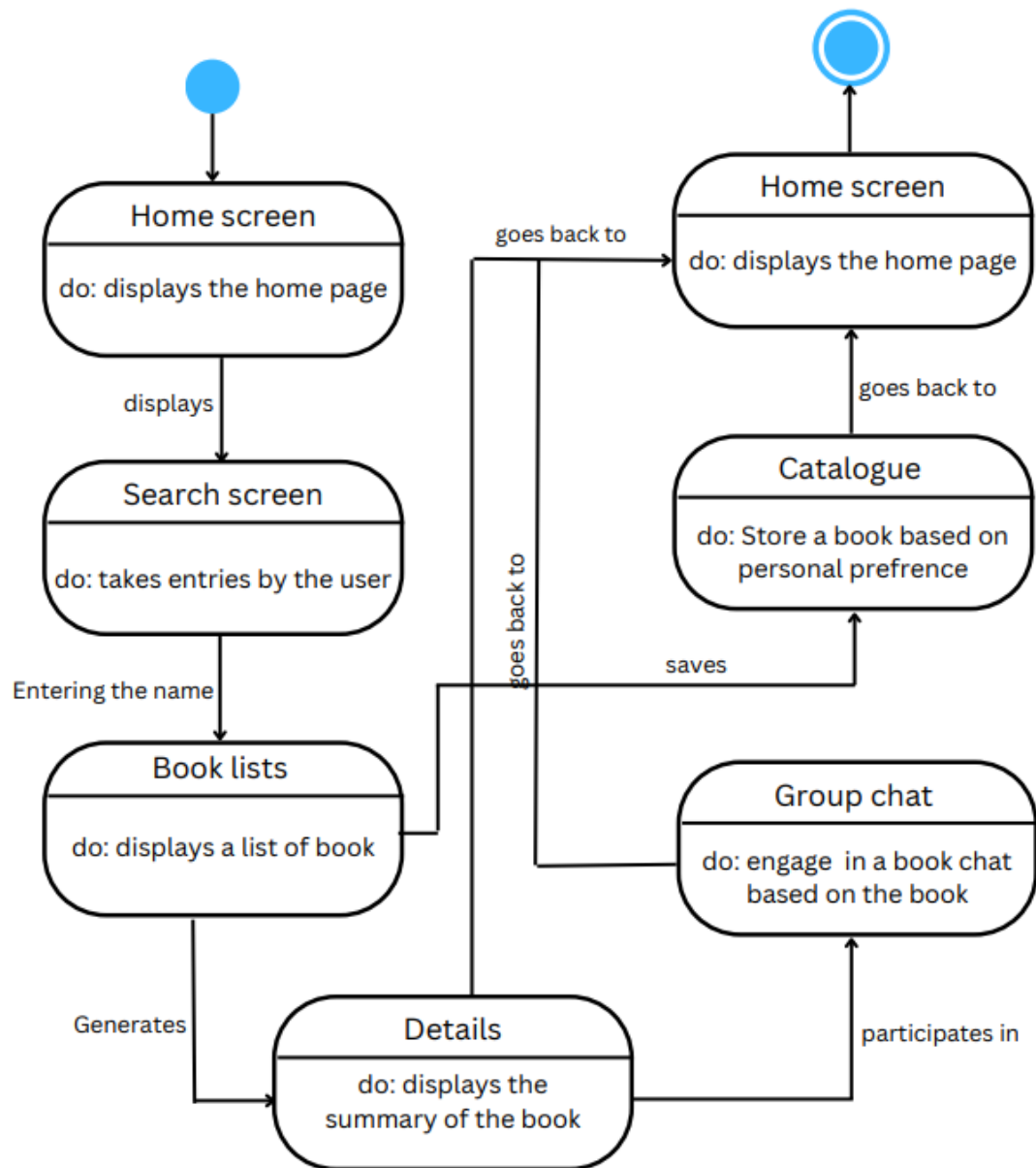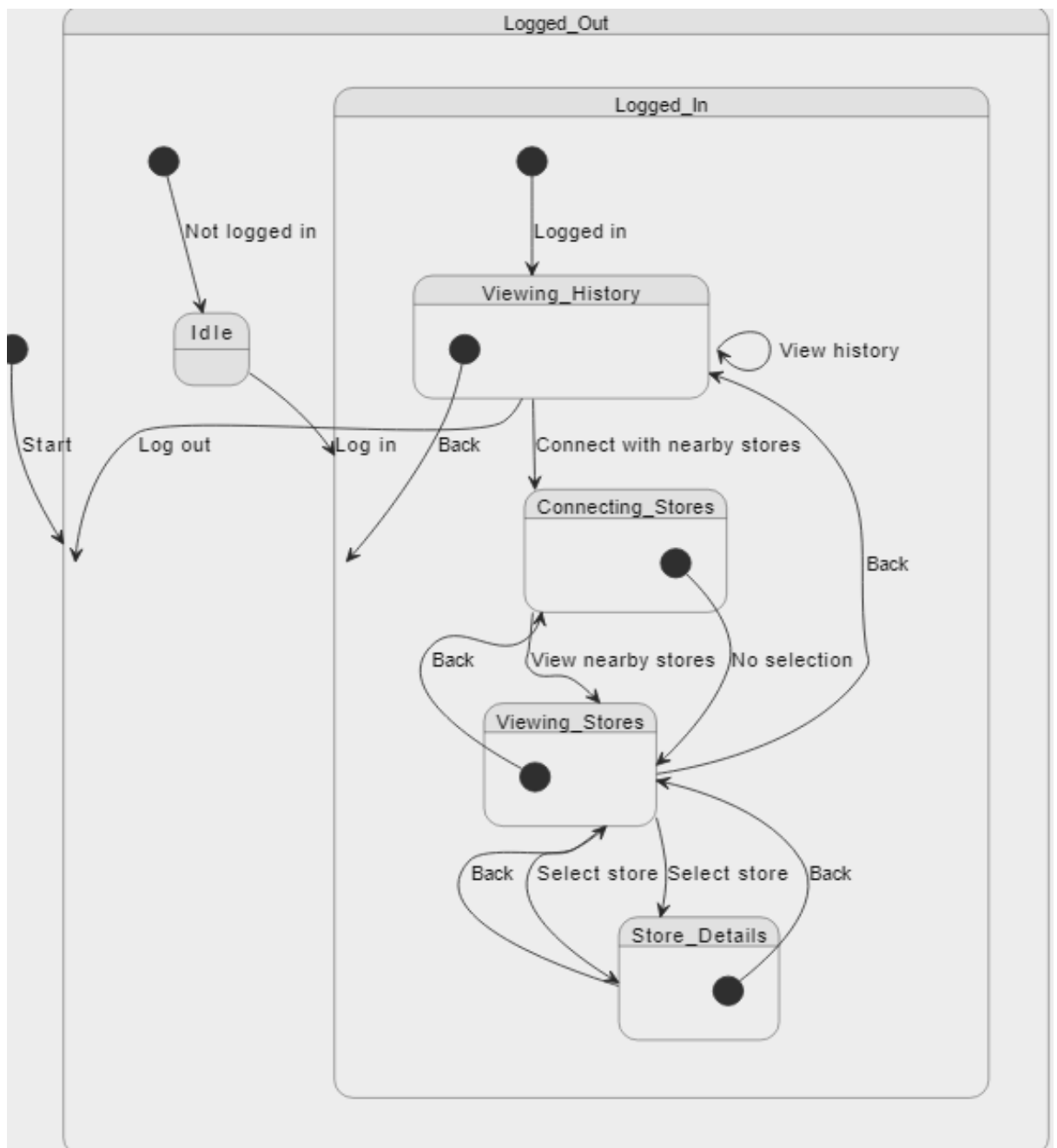
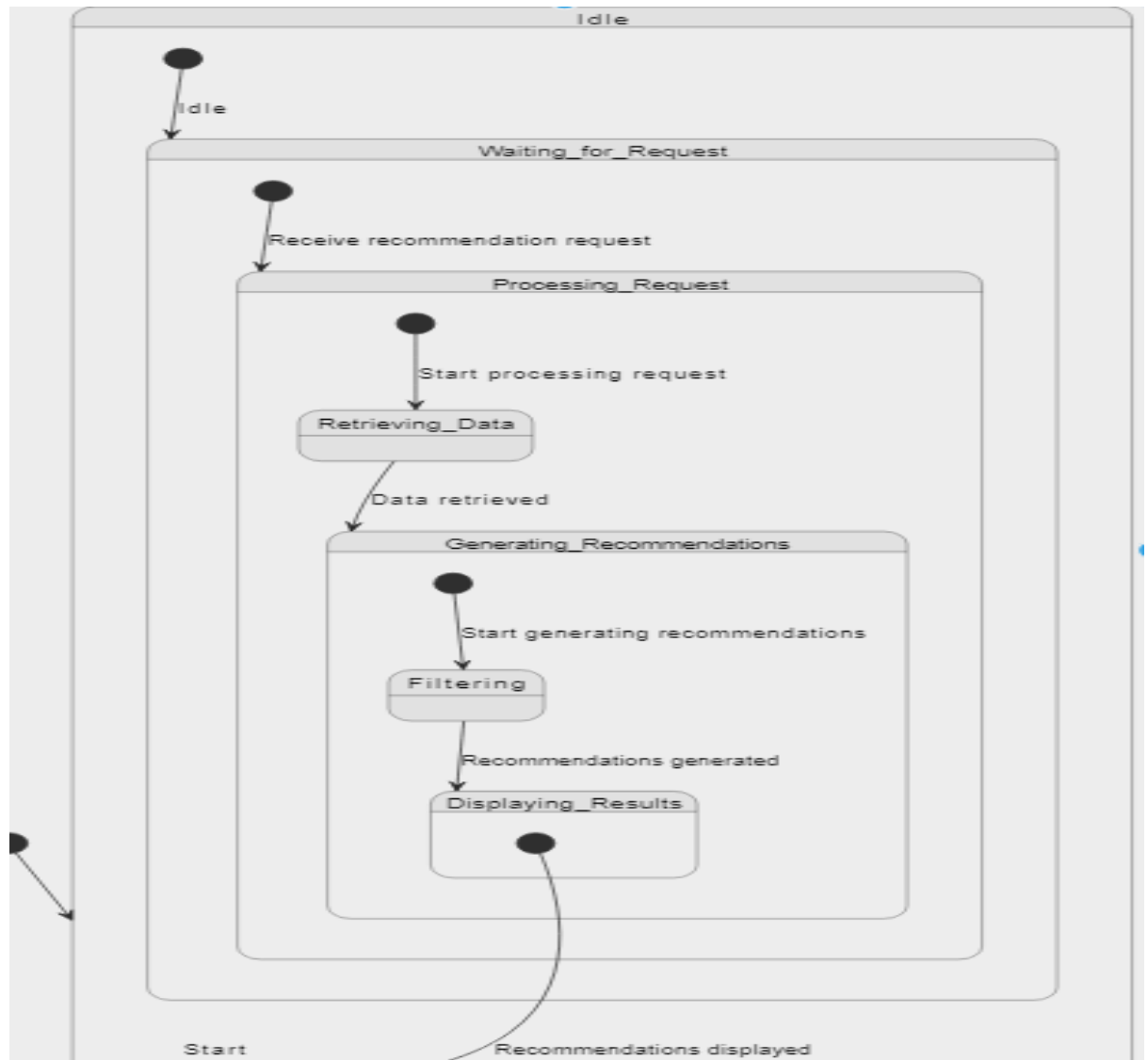## 4. Search Books:

5. View User History & Connect with Nearby Book Stores:

6. Recommendation:

Activity Diagram:

Start participating in group chat

Join group chat

no — Chatting — true

View chat history

Send message

Message received? — yes

Receive message

Message requires action? — yes

React to message

Leave group chat

Use Case Diagrams:

Readers Hub

- Register
- Login
- View Recommendations
- Talk to AI Chatbot
- Participate in Group Chats
- View User History
- Search Books
- Rate Books
- Logout

User

Readers Hub

- Register Bookstore
- Manage Bookstore Profile
- View Bookstore Analytics
- Connect with Readers

Bookstore Owner

Class Diagram:

User history — 1...*

Search books — 1...*

Login — 1...*

Book catalog — 1...*

AI chatbox

Register — 1

Reader

1...* 1...* 1...* 1...* 1...*

1...*

Recommendations — 1...*

Rate and review — 1...*

1...* 1...*

Group chats — 1...*

Bookstore links — 1...*