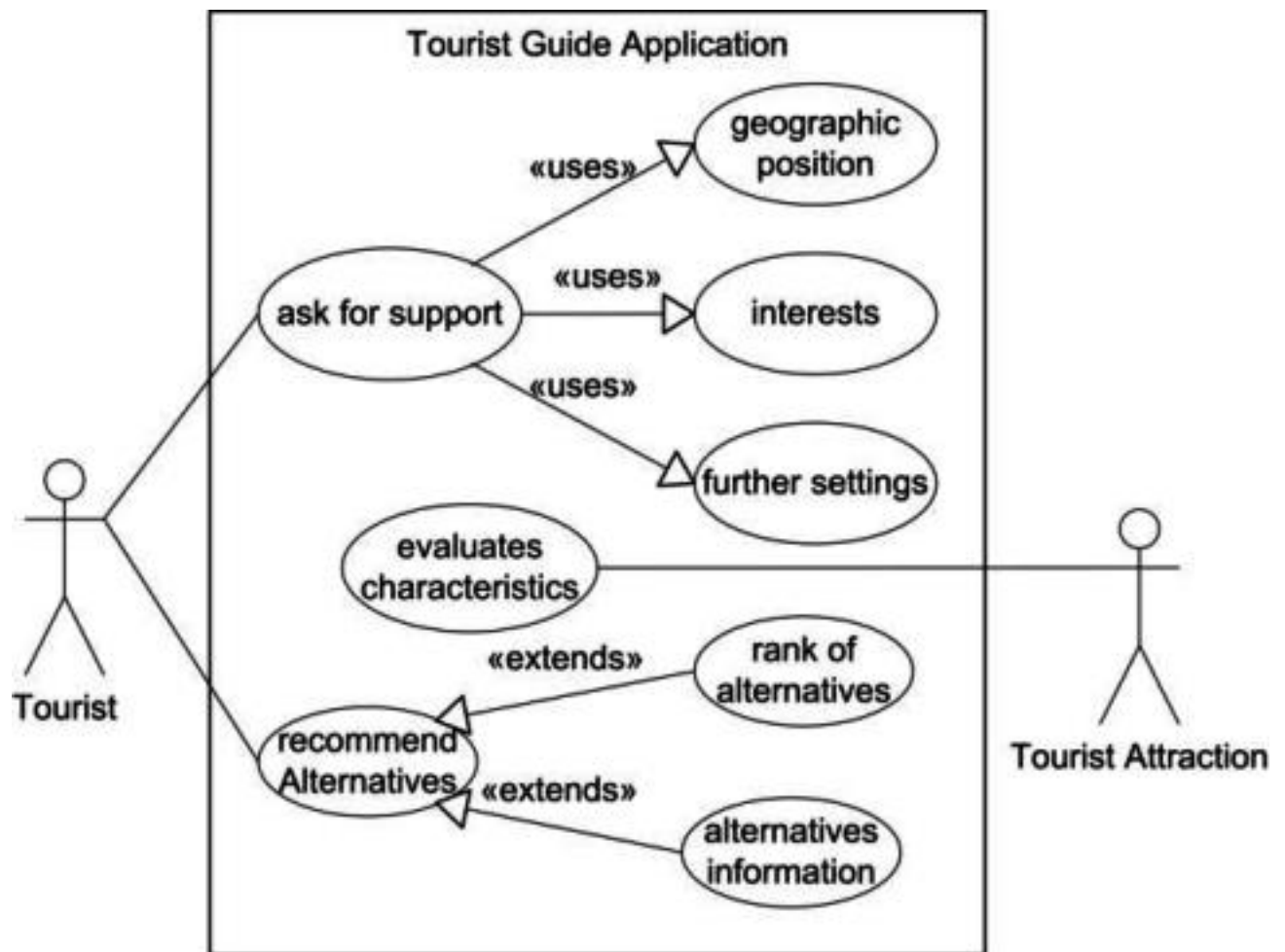Name: Zoya kayani

Reg no: Fa22-bse-042

(**University Management System**)

use case

Use Case Name: Ask for Support in Tourist Guide Application
Primary Actor: Tourist
Goal: The tourist requests recommendations for tourist attractions based on their geographic position, interests, and additional settings.

Main Success Scenario (Basic Flow)

1. **Tourist** opens the Tourist Guide Application.
2. **Tourist** selects the option to "Ask for Support."
3. The **system** gathers the **tourist's geographic position**.
4. The **system** requests the tourist's **interests** (e.g., types of attractions they prefer).
5. The **system** checks the **further settings** (e.g., preferences for travel modes, time limits).
6. The **system** evaluates the **characteristics** provided by the tourist.
7. The **system** recommends a list of **alternative tourist attractions** to the tourist.
8. The tourist reviews the recommended alternatives.
9. The tourist selects an attraction from the recommended list.
10. The **system** provides **detailed information** about the selected attraction.
11. The tourist successfully gets support for their travel plans.

Extensions (Alternative Flows)

- **3a**: If the system cannot gather the tourist's geographic position:
    - The system prompts the tourist to manually enter their current location.
- **4a**: If the tourist doesn't specify their interests:
    - The system uses default interests based on popular attractions in the area.
- **6a**: If the system detects no relevant characteristics based on input:
    - The system asks the tourist to refine their settings (e.g., more specific interests).
- **7a**: If no attractions match the tourist's preferences:
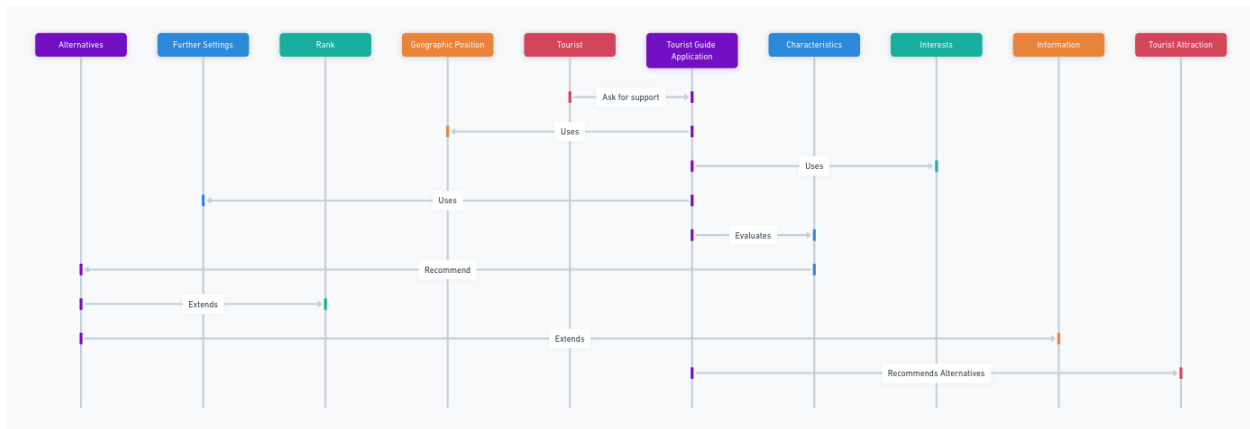   - The system provides a generic list of popular attractions in the tourist's location.

Preconditions

- The tourist has the application installed on their device.
- The tourist has an active internet connection (for accessing real-time data on tourist attractions).
- Location services are enabled on the tourist's device (if the application is to use geographic position automatically).
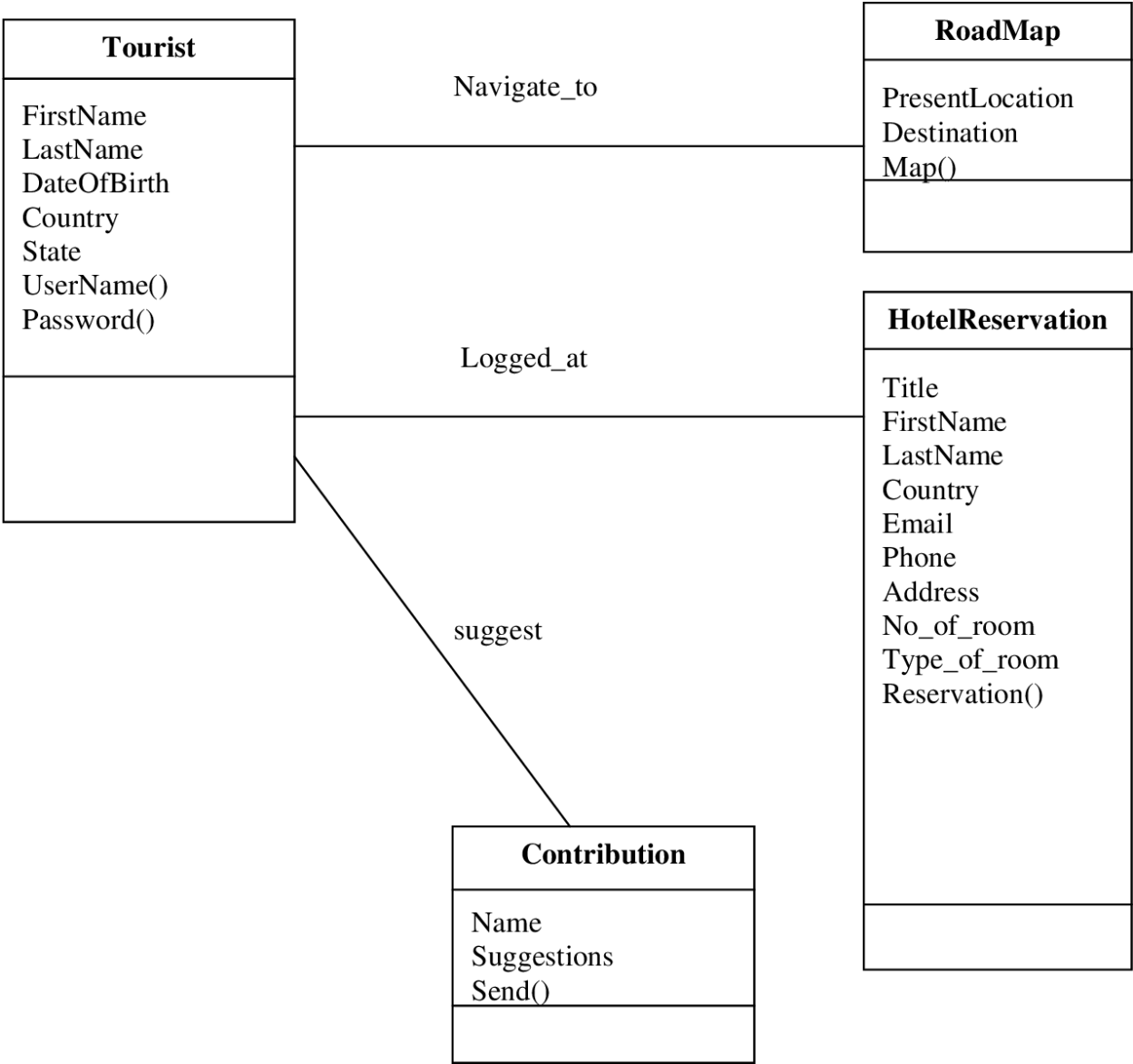
Postconditions

- **Success**: The tourist receives personalized recommendations for tourist attractions, ranked by relevance, along with detailed information for selected attractions.
- **Failure**: The system fails to provide recommendations if there are no matching alternatives or if the tourist does not provide adequate input.

Communication diagram

Class diagram

Tourist

FirstName
LastName
DateOfBirth
Country
State
UserName()
Password()

Navigate_to

RoadMap

PresentLocation
Destination
Map()

Logged_at

HotelReservation

Title
FirstName
LastName
Country
Email
Phone
Address
No_of_room
Type_of_room
Reservation()

suggest

Contribution

Name
Suggestions
Send()

System sequence diagram