

Use Case 1: Trip from Paris

Summary: Starting from Paris the traveler will select the amount of cities they wish to visit.

- **Actor:** Prospective Traveler
- **Precondition:** Program is idle and displaying message to enter amount of cities for the route.
- **Description:**
 - Traveler enters amount of cities they wish to travel to
 - If proper number program accepts it
 - Program will prompt user to buy food
 - Program will calculate shortest route between the number of cities chosen
 - Shortest route between all cities and food items bought is displayed
- **Post condition:** Route has been created and is being displayed to the prospective traveler

Use Case 2: Custom European Trip

Summary: Starting from a city listed, the prospective Traveler can create a custom trip with which ever cities they choose

- **Actor:** Prospective Traveler
- **Precondition:** Program is idle and displaying message to select cities for the trip.
- **Description:**
 - Traveler enters starting city
 - If valid city then list of further cities is displayed
 - Program will display and ask if the prospective traveler would wish to buy food or add more cities to their trip.
 - Prospective traveler will be asked to confirm city selection.

- After every city added Program will display and ask to add another city, food item, or to finish the route.
- If trip is finished, Program will calculate shortest route between the number of cities chosen
- Shortest route between all cities and food items bout is displayed
- **Post condition:** Route has been created and is being displayed to the prospective traveler

Use Case 3: Admin Editing database

Summary: After logging in the admin will be able to edit the database of cities and food items

- **Actor:** Admin
- **Precondition:** Program is idle and awaiting admin to select entry to edit in the database.
- **Description:**
 - Program displays entries to be edited and deleted, or prompts admin to create a new entry
 - If entry is to be edited, program will prompt which data to be changed
 - City name, food prices, can be changed for an entry.
 - If a new entry is created Program will prompt admin to add a Name and food items.
 - If an entry is to be deleted program prompts to enter the name of the city to be deleted
 - After all edits are made the database is saved upon exiting the admin menu
- **Post condition:** Database has been successfully updated by the admin.