**1. Essential Use Case: Planning a Trip to Paris**

* **Goal:** A user wants to plan a 5-day trip to Paris, including accommodation and activities.
* **Actors:** User
* **Preconditions:** User has an account and is logged in.
* **Main Flow:**
  1. User navigates to the "Create Schedule" page.
  2. User selects "Paris" as the city.
  3. User selects a 5-day time period (e.g., June 10th to June 14th).
  4. The system displays weather forecasts for Paris during the selected period.
  5. User searches for hotels and selects one.
  6. User searches for activities (e.g., "Eiffel Tower," "Louvre Museum," "Seine River cruise").
  7. User drags and drops activities into the daily schedule.
  8. The system suggests optimal placement of activities based on weather and crowdedness.
  9. The system calculates travel time between activities and displays a map route for each day.
  10. User reviews the schedule, makes modifications if needed, and saves it.
  11. User views the saved schedule on the "View Schedules" page.
  12. User opens the schedule detail page and uses the link to google maps to navigate.
* **Postconditions:** A detailed travel schedule for Paris is created and saved.

**Hierarchical Task Analysis :Creating a Travel Schedule**

* **0. Plan a trip**
  + 1. Select city
    2. 1.1. Enter city name in search bar
    3. 1.2. Select city from search results
    4. Select time period
    - 2.1. Open calendar interface
    - 2.2. Select start date
    - 2.3. Select end date
    - 2.4. View weather forecast
    1. Select accommodation
    - 3.1. Enter address or request hotel locations
    - 3.2. Apply filters (budget, location)
    - 3.3. Select hotel from list
    - 3.4. View hotel location on map
    1. Select activities
    - 4.1. Enter activity name in search bar
    - 4.2. Browse activity categories
    - 4.3. Apply filters (budget, location type)
    - 4.4. Select activity
      * 4.4.1. View activity details
      * 4.4.2. View activity location on map
      * 4.4.3. View distance from hotel
    - 4.5. Drag and drop activity into schedule
      * 4.5.1. Check activity availability (opening hours)
      * 4.5.2. Adjust activity time period (default recommended time)
    1. Review schedule
    - 5.1. View daily map routes
    - 5.2. View weather info per day
    - 5.3. View travel time between activities
    - 5.4. Modify activity placement
    1. Save schedule
    - 6.1. Review automatically generated title
    - 6.2. Modify title if needed
    - 6.3. Confirm save