

Use Cases

Use Case 1

- **Use case name:** Watching the area, which is the red zone, to go into the area that you will be going (Scouting mode for observing the situation)
- **Primary Actor:** User
- **Secondary Actors:** System (Safety Map), Data Provider (for safety information and alerts)
- **Preconditions:**
 - The user has opened the application.
 - The system has access to updated safety data for the target area.
 - The user has selected or entered the area they plan to visit.
- **Mainflow:**
 1. The user selects "Scouting Mode" in the application.
 2. The system displays the target area on the map.
 3. The system highlights any red-zone (unsafe) areas within or near the selected location.
 4. The user taps on a red-zone area to view more details (e.g., type of risk, time of report, severity).
 5. The system shows additional safety alerts, news, or recommendations (such as avoiding travel at specific times).
 6. The user reviews the information and decides whether to proceed or change their route/plan.
- **Postconditions (optional):**
 - The user becomes aware of red-zone risks in the target area.

Use Case 2

- **Use case name:** News announcement in the map in the area that you are going to visit
- **Primary Actor:** User
- **Secondary Actors:** System (Safety Map), News Provider/Local Authority (for live news and updates)
- **Preconditions:**
 - The user has opened the application.
 - The system is connected to real-time/local news feeds.
 - The user has selected or entered the area they plan to visit.
- **Mainflow:**
 1. The user selects the target area on the map.
 2. The system retrieves recent news announcements related to that location (e.g., safety incidents, weather alerts, traffic updates).
 3. The system displays news announcements on the map, either as markers or pop-up notifications.

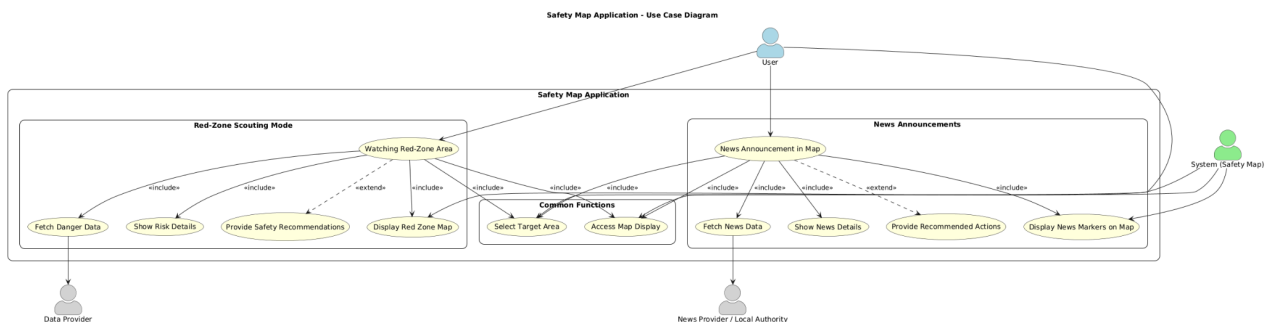
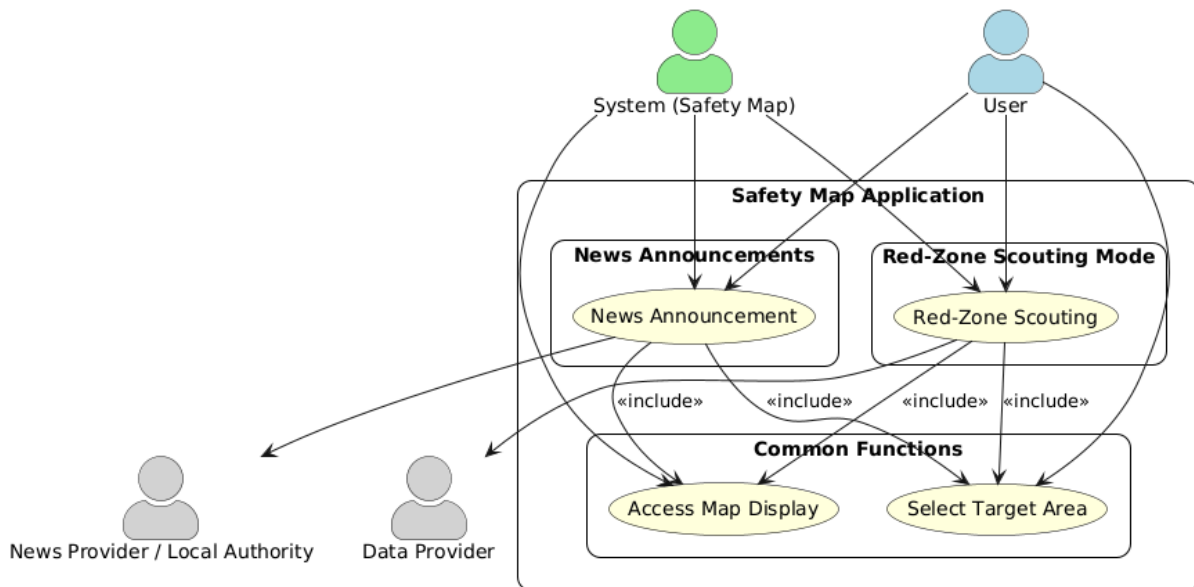
4. The user taps on a news marker to read the details.
5. The system provides additional context, including the time of report, news source, and recommended actions.
6. The user decides whether to continue with their travel plans, adjust their route, or postpone their visit to the area.

- **Postconditions (optional):**

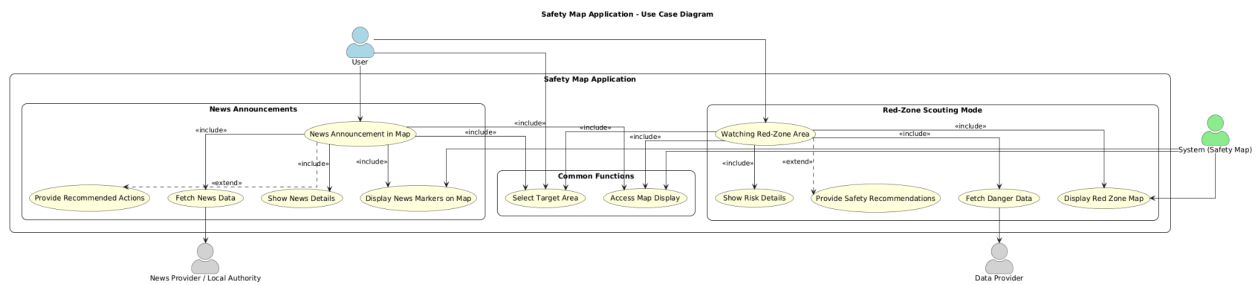
- The user stays updated with the latest news related to their destination.
- The system logs viewed news for future relevance/personalization.
- The user may adjust travel plans for improved safety and convenience.

Use Case Diagram:

Safety Map Application - Simplified Use Case Diagram



Relationship Clearly:



User Stories

- As a user, I want to see highlighted red zones on the map so that I can avoid unsafe neighborhoods.

Acceptance Criteria:

Given the user has a location that they will go to, when the user searches for the location, then the system should display the map with any unsafe areas highlighted as red zones.

- As a user, I want to tap on a red zone to view details about the risks so that I understand what kind of danger to expect.

Acceptance Criteria:

Given that the system displays a map with highlighted red zones, when the user taps on a red zone, the system should display detailed information such as the type of risk, severity, and time of report.

- As a user, I want to see the time and source of each news update so that I know how reliable and recent the information is.

Acceptance Criteria:

Given that the system retrieves news announcements for the selected location, when the user views a news update on the map or in a pop-up, then the system should display the time of the report and the source of the news. And the system should ensure that the displayed information is visible and easy to identify.