

SV7 I5 Requirements

User Story with Acceptance Criteria: Nearby Emergency Shelter

User Story Motivation

As I am a user in an emergency situation,

I want to know the information of nearby emergency shelters,

so that the system can display nearby emergency shelters' information as a list and marked in a map if it is available, and information can be searched by keywords.

User Story Acceptance Criteria (Gherkin notation: Given/When/Then with And as needed)

- **Location - Map - Nearby Shelter Display Criteria:**
 - **Given** a user logged in, **When** the user click the "Emergency Shelter" navbar and the user location and google map are available, **Then** the system will show the user's location in longitude and latitude, display nearby emergency shelters information, and show them in a Google Map.
- **Location - no Map - Nearby Shelter Display Criteria:**
 - **Given** a user logged in, **When** the user click the "Emergency Shelter" navbar and the user location is provided but google map is not available, **Then** the system will show the user's location in longitude and latitude, display nearby emergency shelters information, and display a message "Map is not available."
- **Location - Map - no Nearby Shelter Display Criteria:**
 - **Given** a user logged in, **When** the user click the "Emergency Shelter" navbar and the user location and google map are available, but there is no emergency shelter nearby, **Then** the system will show the user's location in longitude and latitude and Google Map, and display a message "No emergency shelters near your current location, please use search to find nearby emergency shelters."
- **Location - no Map - no Nearby Shelter Display Criteria:**
 - **Given** a user logged in, **When** the user click the "Emergency Shelter" navbar and the user location is provided but google map is not available, and there is no emergency shelter nearby, **Then** the system will display "No emergency shelters nearby, please take care of yourself! If the location if not right, you can use search to find again."
- **No Location Display Criteria:**
 - **Given** a user logged in, **When** the user click the "Emergency Shelter" navbar and the user location is not available, **Then** the system will display a message "Cannot get your current location, please use search to find nearby emergency shelters."

- **Display Search Emergency Shelter Page Criteria:**
 - **Given** a user logged in and in the “Emergency Shelter” page, **When** the user click the “search” nav-button, **Then** the system will display the “Search Emergency Shelter” page.
- **Search Emergency Shelter Criteria:**
 - **Given** a user logged in and in the “Search Emergency Shelter” page, **When** the user input a valid city name which has emergency shelters, and click the search button, **Then** the system will display all the emergency shelters in this city, with location information.
- **Search - no Emergency Shelter Criteria:**
 - **Given** a user logged in and in the “Search Emergency Shelter” page, **When** the user input a valid city name which does not have emergency shelters, and click the search button, **Then** the system will display nearby cities and emergency shelters info in these cities. The use case ends. (Emergency shelters provide food and water, so it is worth to go to nearby cities.)
- **Keyword Search Emergency Shelter Criteria:**
 - **Given** a user logged in and in the “Search Emergency Shelter” page, **When** the user input no more than 5 keywords which is not a certain city name, and click the search button, **Then** the system will display the emergency shelters in cities which name includes this keyword. For example, user input “Mountain”, system display information about “Mountain View”.
- **Keyword Search Emergency Shelter - no Match Criteria:**
 - **Given** a user logged in and in the “Search Emergency Shelter” page, **When** the user input keywords which matches no city, and click the search button, **Then** the system will display a message “Cannot find city which name contains XXX, please search again.”

Business Rules

- User can search for max 5 keywords at one time

User Story with Acceptance Criteria : Inform Emergency Contact

User Story Motivation

As I am a Citizen in an emergency situation,

I want to set an emergency contact,

So that my emergency contact can be notified automatically whenever I change my emergency status.

User Story Acceptance Criteria (Gherkin notation: Given/When/Then with And as needed)

- **View Profile Criteria**
 - **Given** the Citizen is logged into the system, **When** the Citizen chooses to view the profile, **Then** the system displays the fields to update the Citizen's details along with the fields for emergency contact username and emergency contact email.
- **Update Profile Criteria**
 - **Given** the Citizen has logged in and has viewed the profile, **When** the Citizen provides his details along with the emergency contact details, **Then** the system stores the details in the DB and notifies the Citizen that the details have been updated.
- **View Emergency Status Criteria**
 - **Given** the Citizen has logged into the system, **When** the Citizen chooses to view his emergency status, **Then** the system displays the available options for the emergency status and the current emergency status.
- **Update Emergency Status Criteria**
 - **Given** the Citizen has logged in and has viewed the emergency status options, **When** the Citizen chooses a new emergency status, **Then** the system stores the new emergency status in the DB and notifies the Citizen that the details have been updated.
- **Inform Emergency Contact Criteria**
 - **Given** the Citizen has set emergency contact details, **When** the Citizen updates his emergency status, **Then** the system sends a mail to the emergency contact email and a private chat to the emergency contact username.
- **Invalid Email Criteria**

- **Given** the Citizen has chosen to update his profile, **When** the Citizen enters an invalid email, **Then** the system notifies the Citizen and does not save the details in the DB.
- **Invalid Emergency Contact Criteria**
 - **Given** the Citizen has set the emergency contact as a non-existing username, **When** the Citizen updates his emergency status, **Then** the system does not send any private message.
- **No Emergency Contact Details Criteria**
 - **Given** the Citizen has not set an emergency contact or emergency email, **When** the Citizen updates his emergency status, **Then** the system does not send any private message or email.
- **Emergency Contact Login Criteria**
 - **Given** the Citizen who has been set as an emergency contact logs in, **When** another Citizen who set this Citizen as an emergency status updates his emergency status, **Then** the system displays the notification for one unread message.
- **Emergency Private Conversation List Criteria**
 - **Given** the Citizen is an emergency contact and the status has been updated, **When** the Citizen chooses to view the private messages, **Then** the system displays a count of 1 unread message from the sender "EmergencyAdmin"
- **Emergency Private Message Criteria**
 - **Given** the Citizen has a message from the sender "EmergencyAdmin", **When** the Citizen chooses to view the private message received, **Then** the system displays the message that the emergency status was updated.

Business Rules

Emergency Status Options: The Citizen can choose only one of the following:

- OK - I am OK, I do not need help.
- Help - I need help, but this is not a life threatening emergency.
- Emergency - I need help now, as this is a life threatening emergency!

Undefined emergency status: The emergency status is set to Undefined if the Citizen has not chosen any emergency status.

Emergency Email: This step is outside the system - the user can log into their email account and view mails from the Emergency Service Network if the email has been set for a Citizen as the emergency email and the emergency status is updated.

Updating Profile with no details: The emergency contact information can be left empty, there is no restriction imposed on Citizens to update the details.

EmergencyAdmin as sender: The message and mail sent to the emergency contact have “EmergencyAdmin” and “Emergency Service Network” as the sender respectively.

EmergencyAdmin Message No Reply: The emergency contact cannot reply back to the message that is being sent.

Email Format: The email is expected to be in the format
“<some-text>@<some-text>.<some-text>”

User Story with Acceptance Criteria :Group Chat

User Story Brief Motivation:

As a citizen

I want to join a group community,

So that I can post or receive details of a certain emergency.

User Story Acceptance Criteria (Gherkin notation: Given/When/Then with And as needed)

- **See All Groups Criteria**
 - **Given** a user logged in, **When** the user elects to see all the groups created, **Then** the system displays all the groups created by users and allows the user to join the group.
- **Join Group Criteria**
 - **Given** a user logged in and the user is not in a certain group, **When** the user elects to join this certain group, **Then** the system displays all the groups created by users and allows the user to join the group.
- **Confirm Join Group Criteria**
 - **Given** a user elects to join a certain group, **When** he/she confirms that he/she wants to join the group, **Then** the system adds the group to the list of the Citizen’s groups and alerts the Citizen that he/she is in the group and show all the group the user is in.

- **See My Groups Criteria**
 - **Given** a user has been in a group, **When** the user elects to see all the groups he/she is in, **Then** the system displays all the groups the user is in and allows the user to see the messages in the group and allows the user to leave the group. And the system provides a space for the user to create a group.
- **See All Message In A Group Criteria**
 - **Given** a user has been in a group, **When** the user elects to post a message in a group he/she is in, **Then** the system displays all the messages posted in the group and provides a space to write a new one
- **Post A Message In a Group Criteria**
 - **Given** a user has been in a group, **When** the user writes a new message, **Then** the system stores and displays the message (together with sender name, timestamp, and status at the time the message was sent) so others can see it.
- **See Group When No Group Created Criteria**
 - **Given** the user elects to see all the groups created, **When** no group created, **Then** the system displays none.
- **Join Group Already In Group Criteria**
 - **Given** a user elects to join a certain group, **When** the user is already in the group, **Then** the system alert the user that he/she is already in the group.
- **Not Join Group Criteria**
 - **Given** the system asks if the user wants to join the group, **When** the user chooses not to join, **Then** the system stays in the page of displaying groups.
- **See Group When Not in Group Criteria**
 - **Given** the user elects to see all the groups he/she is in, **When** he/she is in no group, **Then** the system displays none.
- **Leave Group Criteria**
 - **Given** the user is in a certain group, **When** the user elects to leave the group, **Then** the system ask the user to confirm that he/she wants to leave the group
- **Confirm Leave Group Criteria**
 - **Given** the system asks the user if he/she wants to leave the group, **When** the user choose to leave, **Then** the system removes the group from the list of the Citizen's groups and alerts the Citizen that he/she has left in the group.
- **Not Leave Group Criteria**

- **Given** the system asks the user if he/she wants to leave the group, **When** the user choose not to leave, **Then** the system stays in the current page
- **Create Group Criteria**
 - **Given** the user elects to create a group, **When** the group name is not empty, **Then** the system ask the user to confirm that he/she wants to create the group.
- **Confirm Create Group Criteria**
 - **Given** the system asks the user if he/she wants to create the group, **When** the user confirms that he/she wants to create the group, **Then** the system adds the group to the list of the Citizen's groups and all the groups created and alerts the Citizen that the group is created.
- **Create Empty Group Criteria**
 - **Given** the user elects to create a group, **When** the group name is empty, **Then** the system alerts that the group name can not be empty
- **Not Create Group Criteria**
 - **Given** the system asks the user if he/she wants to create the group, **When** the user choose not to create, **Then** the system stays in the current page
- **No Message In A Group Criteria**
 - **Given** the user elects to post a message in a group he/she is in, **When** there is no existing messages in the group, **Then** none is displayed

Business Rules:

The user can not join a group he is already in.

The group name can not be empty