

M4 Context Diagram and User Stories

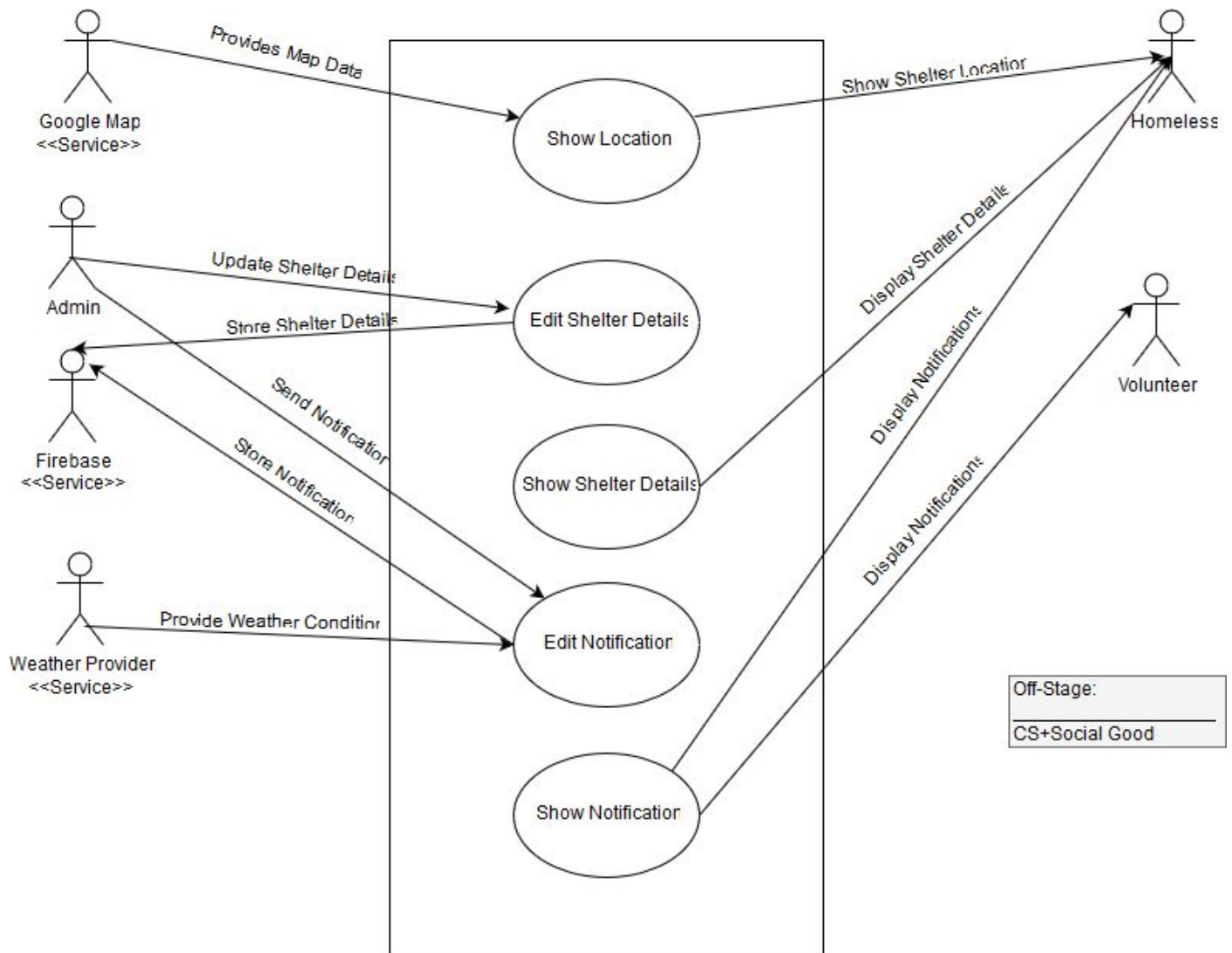
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Class: 2340

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Context Diagram:



User Stories:

1. As a homeless person I want to be able to find nearby homeless shelters.
2. As a worker at a homeless shelter I would like to be able to post updates about my homeless shelter in real time.
3. As a homeless person I want to be able to search homeless shelters by vacancy, gender requirements, etc. to be able to quickly find homeless shelters that would take me in.
4. As a homeless person I would like to get automatic weather warnings for extreme conditions.
5. As a homeless person I would like to see where and when I could get free meals.
6. As a volunteer I would like to be notified when a shelter needs food, supplies, or work.
7. As a volunteer I would like to be able to see nearby locations where I can deliver supplies to help people in need.
8. As a volunteer I would like to be able to directly donate to homeless shelters through the app.
9. As a volunteer I would like to be able to temporarily offer my home to a person in dire need.
10. As an admin of I would o be able to give workers at homeless shelters account privileges which would allow them to post updates about their homeless shelters.

User Story #1:**Author: Zachary Waters****Title:** As a homeless person I want to be able to find nearby homeless shelters.**Tasks:**

- use Google map to display a map and populate it with relevant locations
- make changes to necessary classes
- implement changes in controller/activity

Acceptance Scenarios:

- GIVEN the user have they have started the app, WHEN they log in or when they click the map setting, THEN the app loads a map showing nearby shelter.
- GIVEN the map is being displayed, WHEN they use the filter option, THEN the map updates with the relevant locations.
- GIVEN the map is being displayed, WHEN a shelter is selected, THEN the details of that shelter is displayed.
- GIVEN the user opens the app or click the map setting WHEN he user chooses to not share their location permissions with our app, THEN the user could still manually type their location into the map's address bar.

Done Done Criteria:

Unit Tests were written or updated to test that homeless shelters appear on google maps

Code is merged with master branch

User Story #2:**Author: Kenedy Thorne****Title:** As an administrator, I want to be able to manage/update my shelter's information.**Tasks:**

- make changes to Shelter class
- make changes to Model class
- add widget to view
- implement changes in controller/activity

Acceptance Scenarios:

- GIVEN an administrator is viewing the create new shelter page, WHEN the administrator enters a necessary shelter information (name, location, requirements, announcements, capacity, hours), THEN the new shelter is added to the model and shown in the list of shelters.
- GIVEN an administrator is editing an existing shelter, WHEN the administrator makes any changes to the shelter's name, location, requirements, announcements, capacity or hours THEN the changes are recorded in the model and reflected in the list of shelters.
- GIVEN an administrator is editing an existing shelter, WHEN the administrator presses the back button, THEN the changes are discarded and no changes are made to the model.
- GIVEN an administrator doesn't fill in all the information fields for a shelter, WHEN the administrator presses submit, THEN a warning message appears and user can choose to go back or continue.

Done Done Criteria:

- Unit tests are written or updated to include updating information fields.
- Code is merged with master branch

User Story #3:**Author: Chawalit Saeitew**

Title: As a homeless person I want to be able to search homeless shelters by vacancy, gender requirements, ect to be able to quickly find homeless shelters that would take me in.

Tasks:

- Add filter options in View
- Alter request to database Model
- Repopulate the map in Controller

Acceptance Scenarios:

- GIVEN a homeless searching for the nearest shelter, WHEN the homeless searches for any shelter regardless of restrictions or specifications, THEN only the shelters that are within their opening hours appears on the map and is selectable.
- GIVEN a homeless user searching for the nearest shelter, WHEN the homeless specifies the number of vacancies in the shelter, THEN only the shelters with at least that amount of vacancy appears on the map and is selectable.
- GIVEN a homeless user searching for the nearest shelter, WHEN the homeless filters the shelters based on the any restriction (GENDER, AGE, FAMILY SIZE, VETERAN), THEN only the shelters with at with that specification appears on the map and is selectable.
- GIVEN a homeless user searching for the nearest shelter, WHEN the homeless specifies the minimum distance of the shelter, THEN only the shelters that are within the specified distance compared to their current locations appears on the map and is selectable.
- GIVEN a homeless user searching for the nearest shelter, WHEN none of the shelters matches the search criteria, THEN a pop up appears and says that there is no shelter.

Done Done Criteria:

- All search criteria are accounted and tested with possible expansion of search specifications, modifiability.
- Code is merged with master branch

User Story #4:**Author: Conner Mathis**

Title: As a homeless individual, I want to receive weather notifications when there is dangerous weather coming near me.

Tasks:

- get key for weather alerts off of openweathermap API
- create trigger for certain weather events
- use notificationmanager to create notifications for inclement weather in the view.
- link the notification to Google Maps.

Acceptance Scenarios:

- GIVEN a inclement weather event is predicted to arrive within an day, WHEN the weather event is detected by the openweathermap api, THEN the homeless user receives a notification to get to shelter.
- GIVEN a homeless user is on the application, WHEN an inclement weather event is detected by the openweathermap api, THEN an intent pops up warning them to get to shelter.
- GIVEN an inclement weather notification has appeared on the phone, WHEN the user clicks on the notification, THEN Google Maps appears and shows the path to the nearest shelter.
- GIVEN a homeless user not on the application, WHEN an inclement weather notification is sent, THEN the phone vibrates to indicate urgency.
- GIVEN an inclement weather notification has appeared on the application, WHEN the threat and weather returns to normality, THEN a notification is sent to update the user.
- GIVEN a weather event is on the way, WHEN the user doesn't allow notification permissions, THEN no notification is sent.

Done Done Criteria:

- Unit tests are written or updated to include weather alerts and are passed
- Code is merged with master branch

User Story #5:**Author: Collin Alvidano****Title:** As a homeless individual, I would like to see where and when I can get free meals.**Tasks:**

- get data for when and where online and add to model.
- add a calendar to the model and view
- populate the calendar from the data through the controller

Acceptance Scenarios:

- GIVEN A homeless user is on our App, WHEN the user clicks on the calendar, THEN a calendar with available free meals appears.
- GIVEN A homeless user is on the calendar, WHEN the user clicks on a day, THEN more information on the particular day and location appears.
- GIVEN A homeless user is on a particular day, WHEN the user press and holds a particular food bank, THEN Google Maps will pop up and show the user to that particular food bank.
- GIVEN a homeless user is on a particular day, WHEN the user selects a particular food bank, THEN details of the food bank such as the hours of operation and capacity is displayed.

Done Done Criteria:

- Unit tests are written or updated to view a calendar and are passed
- Code is merged with master branch