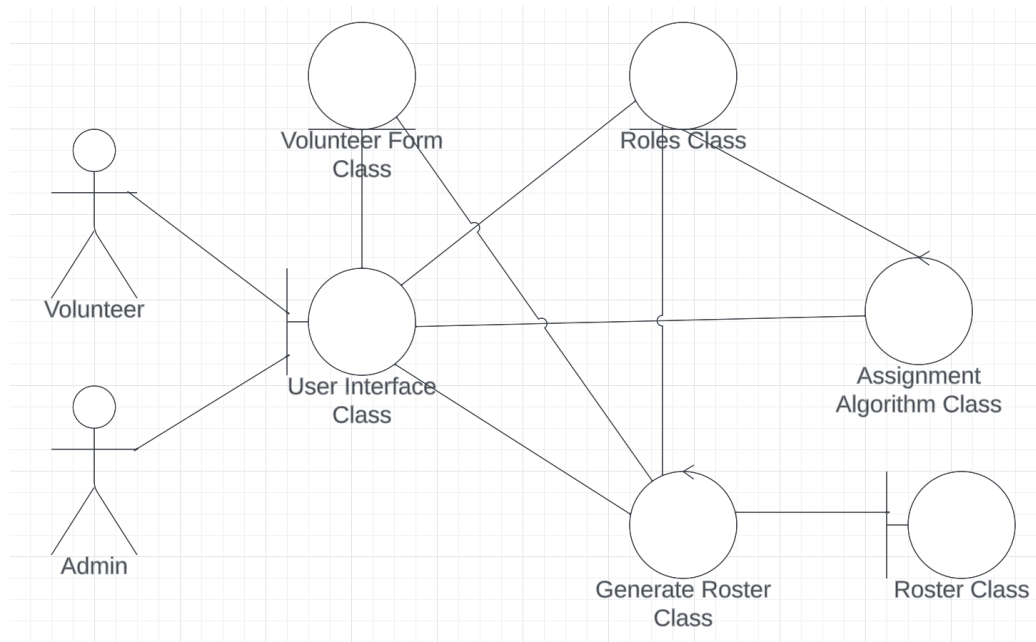
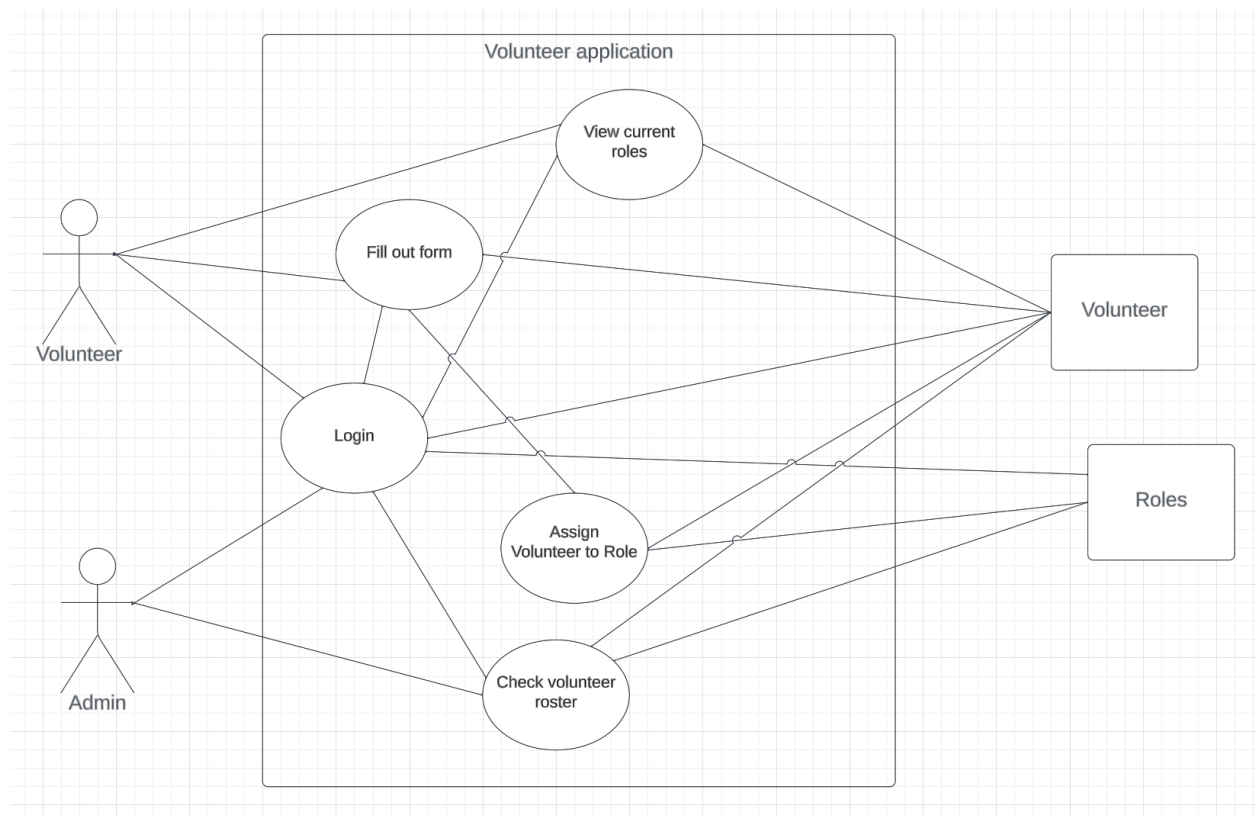


## Analysis Class Diagram



## Use-Case Diagram



- **Use Case: Fill Out Form**

**Primary Actor:** Volunteer

**Goal in Context:** To take information from the user via the questions on the form

**Precondition:** Must be logged in

**Trigger:** User opens web application and selects the option to fill out form

**Scenario:**

1. User opens web application
2. Logs in to existing account or creates an account
3. User selects option to fill out form in drop box

**Exceptions:** None

**Priority:** Essential, must be implemented

**When Available:** A testable version will be available by prototype 2

**Frequency of use:** Whenever a user wants to sign up for a volunteer role

**Channel to actor:** Via web application

**Secondary Actors:** none

**Channels to Secondary Actors:** None

**Open Issues:**

1. Invalid information may cause disruption?
2. Should we have the user login before they even enter the use case to fill out the form?

- **Use Case: Login**

**Primary Actor:** Volunteer

**Goal in Context:** To allow the volunteer to log into the application, gaining access to their volunteer profile and assigned roles.

**Precondition:** The volunteer must have already registered an account within the application.

**Trigger:** The volunteer initiates the login process by navigating to the login page and providing their credentials

**Scenario:**

1. User navigates to login
2. User enters their information
3. If the credentials are valid they gain access

**Exceptions:**

**Priority:** high

**When Available:**

**Frequency of use:** when volunteers want to access their profile

**Channel to actor:** web app

**Secondary Actors:** Admin

**Channels to Secondary Actors:** web app

**Open Issues:**

1. Ensure the system provides clear error messages for failed login attempts
- **Use Case:** View Current Roles  
**Primary Actor:** Volunteer  
**Goal in Context:** To view a user's currently assigned volunteer roles with times and role description  
**Precondition:** User must be logged in to view their roles  
**Trigger:** User logs in and selects the option to view roles from drop down menu  
**Scenario:**
    1. User opens web application
    2. They then log in through the Login button
    3. Once logged in they open the drop down menu and select the option to view their roles**Exceptions:** If a user tries to select an option to view roles without being logged in, present an error message saying "Must be logged in to view roles".  
**Priority:** Semi-essential, first ensure that volunteers are correctly assigned roles  
**When Available:** Prototype 3  
**Frequency of use:** When a volunteer wants to check their roles; could be daily  
**Channel to actor:** Web application  
**Secondary Actors:** None  
**Channels to Secondary Actors:** None  
**Open Issues:** none
  - **Use Case:** Assign Volunteer to role  
**Primary Actor:** none  
**Goal in Context:** An algorithm which takes information from the form that the user fills out to assign a role to the user  
**Precondition:** Volunteer must have a registered account within the application and fill out a form.  
**Trigger:** Volunteer fills out and submits form  
**Scenario:**
    1. User opens web application
    2. They log in or create an account
    3. The user then fills out the volunteer form
    4. Algorithm then determines best fit role then shows and assigns role to the user**Exceptions:** If a form is not fully filled out then it will prompt the user to finish filling out the form before submitting  
**Priority:** Essential, must be implemented  
**When Available:** Prototype 2  
**Frequency of use:** Every time a form for volunteering is submitted

**Channel to actor:** Web Application

**Secondary Actors:** none

**Channels to Secondary Actors:** none

**Open Issues:**

1. What should happen if a user does not want their assigned role?

- **Use Case:** Check volunteer roster

**Primary Actor:** Admin

**Goal in Context:** To allow the admin to check the list of volunteers currently assigned to roles and to gain an overview of volunteer assignments and availability.

**Precondition:**

**Trigger:** The admin logs in and views the current volunteer roster

**Scenario:**

1. Admin logs in
2. System presents volunteer roster

**Exceptions:** If the roster is empty the system should provide a message notifying the admin

**Priority:** must be implemented

**When Available:** Prototype 2

**Frequency of use:** admin can use it periodically to stay informed about volunteers

**Channel to actor:** Web application

**Secondary Actors:** none

**Channels to Secondary Actors:** none

**Open Issues:**

1. ensure the system provides user friendly interface