Use-Case Diagram
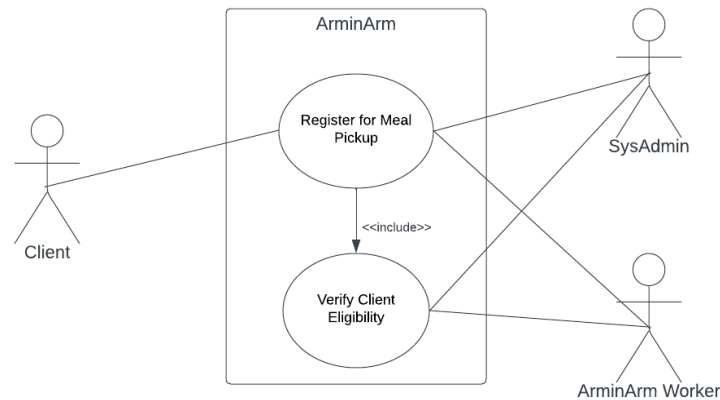

The first increment will focus on the general format for the register for meal pickup, to ensure the proper fields are being presented to be entered. The second increment will include checking if the proper fields are entered in the correct final, with additional conditions to check if the presented household address and/or user have not been previously entered. Future projects can focus on additional more rigorous checks within the database on whether the person has previously registered.

9. Detailed Use Case Description for all major use cases you will implement.

Use Case: Register for Meal Pickup

Primary Actor: Client

Goal In Context:
Provide an efficient and accurate system for clients to register for meal services by ArminArm. The system should ensure that the client registration is unique, verifiable, and eligible, thereby preventing misuse of ArminArms resources. The system should provide a system with integrity to register people for meals. Registering for meals off-site allows faster processing for food distribution.

Preconditions:
User has reliable access to the internet, and is able to understand the forms properly.

Trigger:
User selects the registration option within the ArminArm system. This is done through the online portal.

Scenario:
1. Client accesses ArminArm website through online portal (mobile or desktop)
2. Client selects "Register for Meal Pickup" option
3. Client is prompted to enter personal information, this included but not limited to, number of people in household, address, explanation of current benefits, and ages of household members
4. Client submit form when all information is entered
5. Upon submission, the system ensures that there is no duplicate registration for that existing household and the system will ensure all fields are entered with correct characters.
6. If incorrect information is entered, the system will prompt user to input data again
7. Repeat Step 5 and 6 as needed
8. Client receives confirmation message and validated information is transferred to ArminArm Database

Exceptions:
1. Duplicate Address Found: If the system finds that the address provided is already associated with an existing registration, the client will be asked to verify if the address entered was correct.
2. Incomplete or Invalid Information: If client does not give all required information or input is not in correct format, the user will be prompted to correct the entries.
3. System Unavailability: If the website is down, the client will be unable to register off-site.
4. Verification Issues: If a client is inputting incorrect information but they believe it to be true, the client will be unable to register for a meal. Expanded upon later.

Priority:
    High. Efficient and accurate client registration is vital to improve the speed of food distribution at ArminArm sites.

When available:
    Second Increment

Frequency of use:
    Once. Once a person is registered then there will be no need to register again, assuming people do not need to register for every meal time.

Channel to actor:
-   Web-based interface available on desktop and mobile

Secondary actors:
-   System Administration and ArminArm Worker

Channels to secondary actors:

- System Administration: Backend support
- ArminArm Worker: General Troubleshooting

Open Issue:
1. Intentional Misuse of the address checking system
2. How to distinguish between typos in address and invalid addresses

Use Case: Verify Client Eligibility

Primary Actor: Client

Goal in Context: To ensure resources are distributed efficiently and equitably, the system will verify eligibility of clients for meal pickups.

Preconditions: Client is actively filling out form

Trigger: Submission of registration is sent by client

Scenario:
1. Upon submission, the system ensures that there is no duplicate registration for that existing household and the system will ensure all fields are entered with correct characters.
2. If incorrect information is entered, the system will prompt user to input data again
3. Repeat Step 1 and 2 as needed

Exceptions:
1. Incomplete Information: Client does not fill out all fields
2. Eligibility not met: Client is not able to register due to not meeting ArminArm conditions
3. Manual review Required: The submission could not be accepted or rejected

Priority: Critical. Need method for checking integrity of system

When Available: Third Increment

Frequency of use: Once. Once a person is registered then there will be no need to register again, assuming people do not need to register for every meal time.

Channel to actor: Through web portal, being mobile or on desktop

Secondary actors:
- System Administration and ArminArm Worker

Channels to secondary actors:
- System Administration: Backend support
- ArminArm Worker: General validation if form was not accepted or denied. Also help with form competition if needed.

Open issue:

- Developing algorithms that can distinguish between individuals form the same household versus multiple eligible households sharing an address. Critical as to be equitable in distributing food