

Detailed Use-Case Descriptions:

- **Use case:** Sign Up/Register

Primary actor: Client or Administrator

Goal in context: To have the applicant create or log into the Arm-in-Arm system in order to begin the pre-registration process.

Preconditions: The applicant has access to a device with internet connection.

Trigger: The client clicks on the “Sign Up/Register” button.

Scenario:

1. The applicant visits the pre-registration website.
2. They select the “Sign Up/Register” button.
3. The system presents a registration form with New User Questions for them to fill out, if the applicant is a new user.
4. The applicant fills out the form and submits it.
5. The system validates the data and generates a unique ID for the client.
6. The client receives a confirmation of successful registration.

Exceptions:

1. The applicant submits incomplete or inaccurate information. The system should prompt them to correct the errors.
2. There are technical issues preventing successful submission, the applicant should be informed and advised to try again later.

- **Use case:** Access New User Questions

Primary actor: Client

Goal in context: To access the set of questions for new user registration

Preconditions: The applicant is a new user who has not previously registered.

Trigger: The client clicks on the “Sign Up/Register” button.

Scenario:

1. The applicant registers into the system.
2. The applicant navigates to the set of new user questions.
3. The system displays the list of questions used for new user registration.

Exceptions:

1. There is a system error that doesn’t allow the user to view questions. The administrator should be notified immediately.
2. A user already is entered into the system. The system notifies the user that someone with their name is already registered.

- **Use case:** Create Unique QR Code and ID Number

Primary actor: System

Goal in context: To generate a unique QR code and ID number for each registered Arm in Arm client during the registration process

Preconditions: The client has successfully completed the registration process.

Trigger: The successful submission of the client's registration form.

Scenario:

1. After the client completes registration, the system processes the information provided.
2. The system validates the information to make sure it's complete and accurate.
3. The system generates a unique ID or QR code, using an algorithm to do so.
4. The system associates the unique identifier to the applicant with their personal information in the database.
5. The system sends the information to the client, notifying them of their unique identifier.

Exceptions:

1. There are technical issues with the generation of a unique identifier. The system notifies the client to try again later.
2. Client's information cannot be verified. The system should notify the client and prompt them to try again.

- **Use case:** Access QR Code/ID Number

Primary actor: Client

Goal in context: To access the client's unique QR code or ID number.

Preconditions: The client is logged in.

Trigger: The client or staff selects the button for the QR code/ID number.

Scenario:

1. The client logs into the system.
2. The system verifies the client's user.
3. The client selects the "Access QR Code/ID Number" option.
4. The system displays the client's unique QR code or ID number.

Exceptions:

1. The login information is incorrect, or does not exist. The system prompts the client to enter the correct information or register if they have not done so.

2. The system is not able to find the identifier. The administrator should be alerted to fix the issue immediately.
- **Use case:** Modify Account Information
Primary actor: Client
Goal in context: To update or modify personal information stored in the client's account.
Preconditions: The client is logged in.
Trigger: The client selects the button to modify their account information

Scenario:

1. The client logs into the system.
2. The system verifies the client's user.
3. The client selects the "Modify Account Information" option.
4. The system displays a form with the client's existing information.
5. The client updates the necessary fields.
6. The client submits the updated information.
7. The system validates and saves the changes.
8. The client receives confirmation of successful modification.

Exceptions:

1. The applicant submits incomplete or inaccurate information. The system should prompt them to correct the errors.
2. There are technical issues preventing successful submission, the applicant should be informed and advised to try again later.

- **Use case:** Validate/Access Real Client
Primary actor: System
Goal in context: To verify the identity and eligibility of a client.
Preconditions: The client is attempting to access their QR code, ID number, or update their account information.
Trigger: The client initiates a request to access or update their information, which requires validation.

Scenario:

1. The client initiates a request to access their unique QR code, ID number, or update their account information.
2. The system prompts the client to enter their unique ID or other identifying information.

3. If the client is attempting to access their QR code or ID number, it will provide that information. If the client is attempting to update their information, it will redirect them to the form to do so.

Exceptions:

1. The applicant submits inaccurate information that doesn't match any records. The system prompts the client to try again or register if they have not done so.
2. The client submits incomplete information. The system prompts the client to complete the information.
3. The client's information cannot be verified by the system. The administrator should be notified immediately to fix the issue.

- **Use case:** Search QR Code/ID Number/Name

Primary actor: Administrator

Goal in context: For Arm-in-Arm staff to search for a client's ID, QR Code, and other information in the database.

Preconditions: An Administrator is logged into the system.

Trigger: The staff selects the option to search for a client's QR code/ID number

Scenario:

1. The Arm in Arm administrator logs into the system.
2. The staff selects the "Search QR Code/ID Number" option.
3. The system prompts the staff to enter the client's identifying information.
4. The system retrieves and displays the client's unique QR code or ID number, as well as anything else that is necessary.

Exceptions:

1. Client information does not match any records. The administrator should be notified of the error.
2. The administrator submits incomplete information, or information that is too broad and results in multiple IDs. The system should notify the administrator and list all IDs.

- **Use case:** Produce List of Clients

Primary actor: Administrator

Goal in context: To generate a list of clients registered in the system.

Preconditions: An Administrator is logged into the system.

Trigger: The staff selects the option to produce a list of clients.

Scenario:

1. The Arm in Arm administrator logs into the system.
2. The staff selects the "List of Clients" option.
3. The system prompts the staff to enter the client's identifying information.
4. The system generates and displays a list of clients, including their names, unique IDs, and relevant information..

Exceptions:

1. There is an error in the list generation process. The administrator should notify developers to fix the issue.
2. The list generation produces an empty list. System must be adjusted to ensure that it is not due to an error.