

## Use Case Specification Description

Use Case ID: *Monitor\_News*

Use Case Name: Generate News

Primary Actor: *Client*

Pre-conditions: User is logged into the system.

Post-conditions: The user reads at news on their screen

Basic Flow or Main Scenario:

1. User pushes a button to read news
2. Monitor class pulls information from the Newsfeed class
3. Monitor displays the news article with title, body, and source

Exceptions: NA

Use Case ID: *Sign in*

Use Case Name: Sign in

Primary Actor: *Client*

Pre-conditions: User must be registered with the system.

Post-conditions: User successfully logs in.

Basic Flow or Main Scenario:

1. User opens the application
2. User inputs their user name
3. If username exists, they're asked for a password
4. If password is correct, user successfully gets logged in
- 3.1. If username doesn't exist, user is prompted to close window and register first
- 4.1. If password is incorrect, user can re enter password 2 more times
- 4.2. After 3 times of incorrect attempts, user has to reset password

Exceptions: NA

Use Case ID: *Sign up*

Use Case Name: Sign up

Primary Actor: *Client*

Pre-conditions: Application must be open/

Post-conditions: User successfully registers.

Basic Flow or Main Scenario:

1. Client chooses a username and password
2. If username and password are available, user fills out their profile with address, health details, and additional information like emergency contact
3. User's information gets saved in ClientDB
4. User gets a success message
- 2.1. If username is already occupied, user has to choose another username
- 2.2. If user input is invalid, the prompt repeats until user decides to cancel or closed window

Exceptions: NA

Exceptions: NA

Use Case ID: *Monitor\_Police*

Use Case Name: *Calling police*

Primary Actor: *Client*

Pre-conditions: App is open and the user has logged in successfully.

Post-conditions: System should be able to have the ETA of Police on the GUI.

Basic Flow or Main Scenario: Sensor-> HomeAlarm -> Monitor ->911 Dispatch -> Police Station

Extensions or Alternate Flows: Sensor-> HomeAlarm -> Monitor -> Client-> 911 Dispatch

->PoliceStation

Exceptions:NA

Use Case ID: *Monitor\_Fire*

Use Case Name: *Calling Fire truck*

Primary Actor: *Client*

Pre-conditions: App is open and the user has logged in successfully.

Post-conditions: System should be able to have the ETA of Fire Truck on the GUI.

Basic Flow or Main Scenario: Sensor-> HomeAlarm -> Monitor ->911 Dispatch -> Fire Station

Extensions or Alternate Flows: Sensor-> HomeAlarm -> Monitor -> Client-> 911 Dispatch ->Fire Station

Exceptions: NA

Use Case ID: *Monitor\_Medical*

Use Case Name: Ambulance call

Primary Actor: *Client*

Pre-conditions: App is open and the user has logged in successfully.

Post-conditions: System should be able to have the ETA of Ambulance on the GUI.

Basic Flow or Main Scenario: Sensor-> HomeAlarm -> Monitor ->911 Dispatch -> Hospital

Extensions or Alternate Flows: Sensor-> HomeAlarm -> Monitor -> Client-> 911 Dispatch ->Hospital

Exceptions:NA