**Use Case Description Template**

**Adopted with some modifications:** [**https://www.projectmanagementdocs.com/**](https://www.projectmanagementdocs.com/)

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| **Name of Use Case:** | Send GPS location to a caretaker | | | |
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| **Date Created:** | 24/02/2023 | | **Last Revision Date:** | 03/03/2023 |
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| **Description:** | | The use case is about an elderly person wearing a GPS enabled device that can send their current location to their caretaker or family member. The purpose of the device is to ensure the safety of the elderly person, who may have mobility issues, dementia or other medical conditions that require monitoring. The wearable device will send location data in real-time to the caretaker, allowing them to quickly locate the elderly person in case of an emergency. | | |
| **Actors:** | | Elderly person: The person wearing the GPS enabled wearable device.  Caretaker: The person who receives the GPS location information. | | |
| **Preconditions:** | | 1. The user has a wearable with GPS capabilities.  2. The user and the caretaker have a pre-existing relationship and have agreed to use this feature.  3. The user has granted permission to the application to access their GPS location.  4. The user has installed an application that allows them to send their GPS location to the caretaker. | | |
| **Postconditions:** | | 1. The elderly person's location data is regularly sent to the caretaker/family member's device.  2. The caretaker/family member is able to monitor the location of the elderly person in real-time and can provide assistance if needed. | | |
| **Main Flow:** | | 1. The elderly person wears the GPS enabled device.  2. The GPS device continuously tracks the location of the elderly person.  3. The device sends the location data to a remote server.  4. The remote server processes the data and sends it to the caretaker/family member's device.  5. The caretaker/family member receives the GPS location information and can view it on their device.  6. If the caretaker/family member notices that the elderly person is in distress or in need of help, they can contact the elderly person and/or emergency services. | | |
| **Alternative Flows:** | | If the GPS device loses connection to the remote server or experiences technical difficulties, the caretaker/family member may not receive accurate or up-to-date location data. | | |
| **Exceptions:** | | 1. The GPS enabled device may not function properly if there is no GPS signal or if the signal is weak.  2. The GPS device may not provide accurate location data if it is not properly calibrated or maintained.  3. The elderly person may forget to wear the GPS enabled device, rendering the system useless in tracking their location. | | |
| **Non-Functional Requirements:** | | The following requirements must be met before execution of the use case:  accurate and real-time tracking of the elderly person's location, secure and efficient data transmission, user-friendly display of data, secure and encrypted communication channels, long battery life, compliance with relevant regulations and standards, scalability and adaptability, and thorough testing to ensure reliability, accuracy, and ease of use. | | |