**PERSONA:**

-User: Bill

-Age: Senior (65+)

-Education: University degree

-Debts: None

-Occupation: Retired (Former Financial Advisor)

-Income: Pension worth > $2 000 000. Upper-class background

-Interests: Television shows, crossword puzzles

-Goals: Enjoy life

-Needs: Easy to use and responsive UI, to help get from point A to point B

**Scenario 7:** Activate Collision Avoidance System

**Scenario Code:** CAS102

Bill is driving along peacefully on the city streets. Suddenly, a car pulls out in front of him without first checking the blind spot. Bill is travelling too fast, and the distance between the two cars is too tight. The proximity sensors built into the car detect this. Before Bill can even react to the situation, the CAS kicks in and alerts him with a loud beep that a crash would be imminent. John slams on brakes and also swerves just in time, missing the car narrowly.

Case 1:

Use Case Name: Activating collision avoidance system, success.

Short Description: The user drives along peacefully. A car suddenly pulls out in front, which activates the proximity sensors that then trigger the CAS on the UI. User averts collision.

Actors: The driver.

Trigger: The car pulling in front of Bill’s car suddenly.

Precondition: Car is on and has the CAS activated.

Postcondition: The alarm shuts off after user averts collision.

Results: User escapes with no damage.

Outline:

1. User turns on vehicle
2. User verifies that CAS is up and running
3. User drives along
4. While driving, another car suddenly pulls out in front
5. Proximity sensors trigger alarm
6. User hears alarm then brakes and/or swerves immediately
7. User does not collide
8. Alarm shuts off

Case 2:

Use Case Name: Activating collision avoidance system, failure.

Short Description: The user drives along peacefully. A car suddenly pulls out in front, which activates the proximity sensors that then trigger the CAS on the UI. User DOES NOT avert collision.

Actors: The driver.

Trigger: The car pulling in front of Bill’s car suddenly.

Precondition: Car is on and has the CAS activated.

Postcondition: Alarm stays on, airbags deploy

Results: User is involved in collision, may be injured. Must call 911

Outline:

1. User turns on vehicle
2. User verifies that CAS is up and running
3. User drives along
4. While driving, another car suddenly pulls out in front
5. Proximity sensors trigger alarm
6. User hears alarm then brakes and/or swerves immediately
7. Despite best efforts, user still collides
8. Air bags deploy
9. Alarm stays on for a while