**PERSONA:**

**User**: Jane Smith

**Age**: 40

**Education**: Bachelor of Software Development (Seneca College)

**Debts**: $20,000

**Occupation**: Senior Developer at BMO

**Income**: $100,000 / year plus bonuses

**Interests**: Soap Operas, saving money, travelling, and her children

**Goals**: To pay off all debts

**Needs**: Easy to use and responsive UI to help her drive with her increasing age, as well as a reliable vehicle that will last for many years.

**SCENARIOS:**

**Scenario**: Reviewing vehicle systems and connections

**Scenario Code**: REVI101

The user has recently acquired the vehicle and wants to confirm that all systems are fully functional and intact. The user starts the car, and the interface starts up as well. From the default menu presented to him, the user taps on the “Settings” menu and is presented with multiple options. From there, the user connects to Wi-Fi for future GPS and navigational purposes. Afterwards the user navigates to the “Specifications” menu to gain valuable identifying information in preparation for repair needs and crash incidents. Finally, the user navigates to the “Diagnosis” menu, where the user will learn about the current state of all the vehicles inner systems such as suspension and oil levels.

**Case 1**:

Use Case Name: Connecting to Wi-Fi

Short Description: The user navigates from the default screen to the “Connections” screen to connect to Wi-Fi.

Actors: The user/driver

Trigger: The user needs Wi-Fi.

Precondition: The car is on, all network systems are fully functional

Postcondition: The user is successfully connected to Wi-Fi.

Results: The vehicle successfully establishes a stable connection

**Main Success Scenario**:

1. The user turns on the car, and is presented with the default screen
2. The user taps on the “Settings” option on the screen
3. The user is presented with the “Connections” option, and taps on it
4. The user is presented with multiple networks available and taps on one of the available open networks.
5. The system attempts to connect to the network, and the user is successfully connected if the connection is stable

**Alternate Flow**:

1. The user turns on the car, and is presented with the default screen
2. The user taps on the “Settings” option on the screen
3. The user is presented with the “Connections” option, and taps on it
4. The user is presented with multiple networks available and taps on one of the available networks that requires a password.
5. The user attempts to enter the password, and if successful moves on to the next step
6. The system attempts to connect to the network, and the user is successfully connected if the connection is stable

**Case 2**:

Use Case Name: Checking vehicle diagnostics

Short Description: The user navigates the interface to acquire information about the vehicle

Actors: The user/driver

Trigger: The user wants to acquire general knowledge as a precautionary measure, or the vehicle is not running optimally

Precondition: The vehicle is on, and the interface is fully functional and connected to the individual systems within the car.

Postcondition: The user is presented with the current condition of systems within the vehicle

Results: The user gains adequate information about the vehicle.

**Main Success Scenario**:

1. The user turns on the car, and is presented with the default screen
2. The user taps on the “Settings” option on the screen
3. The user is presented with the “Diagnosis” option, and taps on it
4. The user is presented with a diagram of the vehicle, and labeled options of the systems within
5. The user selects one of the labeled options
6. The user is brought to a screen with all relevant information about the current condition of the selected option.

**Alternate Flow**:

1. The user turns on the car, and is presented with the default screen
2. The user taps on the “Settings” option on the screen
3. The user is presented with the “Diagnosis” option, and taps on it
4. The user is presented with a diagram of the vehicle and labeled options of the systems within. Some of the labels are in red
5. A notification appears telling the user to bring the vehicle into the nearest registered dealership for repairs

**Case 3**:

Use Case Name: Display vehicle information

Short Description: The user navigates to the “Specifications” page where they are presented with all relevant information regarding the vehicle’s specifications

Actors: The user/driver

Trigger: The user needs identifying information and specifications for either repair or for general knowledge

Precondition: The car is on, and the interface is fully functional

Postcondition: The system displays the “Specifications” page.

Results: The user gains adequate information about the vehicle.

**Main Success Scenario**:

1. The user turns on the car, and is presented with the default screen
2. The user taps on the “Settings” option on the screen
3. The user is presented with the “Specifications” option, and taps on it
4. The user is presented with a list of all specifications and identifying information

**Case 4:**

Use Case Name: Playing music from a mobile device

Short Description: The user plays music from their vehicle through options presented by the interface

Actors: The driver

Trigger: The driver wants to play music

Precondition: Car is on, music medium is present, vehicle interface is fully functional

Postcondition: Music is playing, music medium is connected to audio system

Results: Music plays through the speakers

**Main Success Scenario**:

1. User taps on the music button from the home menu
2. The user then selects the Bluetooth option to play music from his phone
3. The system looks for Bluetooth signals, and connects once a device is found
4. Playlist is presented, and the actor selects the desired song on their phone
5. Song plays, and its name is displayed on the screen

**Case 5:**

Use Case Name: Playing music from the built-in radio

Short Description: The user plays music from their vehicle’s radio through options presented by the interface

Actors: The driver

Trigger: The driver wants to play music

Precondition: Car is on, radio is functional, vehicle interface is fully functional

Postcondition: Music is playing, audio system is connected to the radio

Results: Music plays through the speakers

**Main Success Scenario**:

1. User taps on the music button from the home menu
2. The user then selects the radio option
3. Radio channels are presented, and the user selects the desired song radio station
4. Song plays, and its name and radio station are displayed on the screen

**Case 6:**

Use Case Name: Using GPS to navigate to restaurant while driving

Short Description: The user uses the GPS systems to attain a list of restaurants nearby. He selects the restaurant he chooses to eat at and system gives prompts him with the direction.

Actors: The driver

Trigger: The driver wants to navigate to their desired restaurant

Precondition: Car is on and connected to GPS systems

Postcondition: Car is utilizing GPS systems, User receives the directions to the restaurant

Results: The GPS system successfully determines the fastest route to the destination, and the user has used these directions to arrive at the location

**Main Success Scenario**:

1. User selects the GPS button
2. The current location is displayed on the interface
3. UI displays the option “Restaurants Nearby”
4. The user selects this option
5. GPS displays a sorted list of options for every restaurant in the area by proximity (with exact distance listed)
6. User selects a specific restaurant
7. Multiple routes are displayed (such as fastest/shortest/no-tolls)
8. User selects a route
9. System displays the directions, distance, and estimated time of arrival.
10. System provides the user with turn-by-turn directions, as well as visual and auditory cues while driving