

Software requirement specification

Home Application

Version 1.1

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Document History

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1.0	Tran Ngo Anh Tuan	Pham Ba Thanh	Sep 24 th 2022	All	Create
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1. Introduce

1.1 Purpose

The purpose of this document is to provide a complete and accurate description of the Application Home page. This document can be used to use the input for the design and testing for Home Apps.

1.2 Scope

The purpose of this document is to provide an overview of the car Home application including entertainment and utility applications.

1.3 Object

- Funix
- Developer
- Tester

1.4 Acronyms

- SRS: Software Requirement Specification
- SW: Software
- TBD: To be defined

2. Use case Diagram

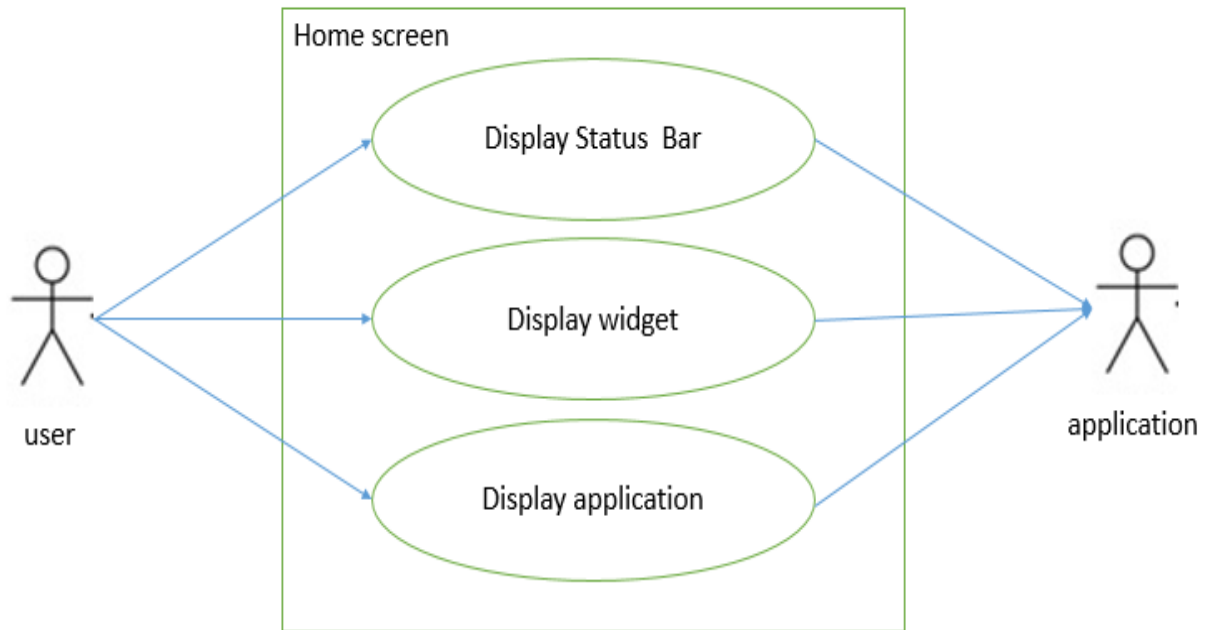


Figure 1: Use case diagram for home app

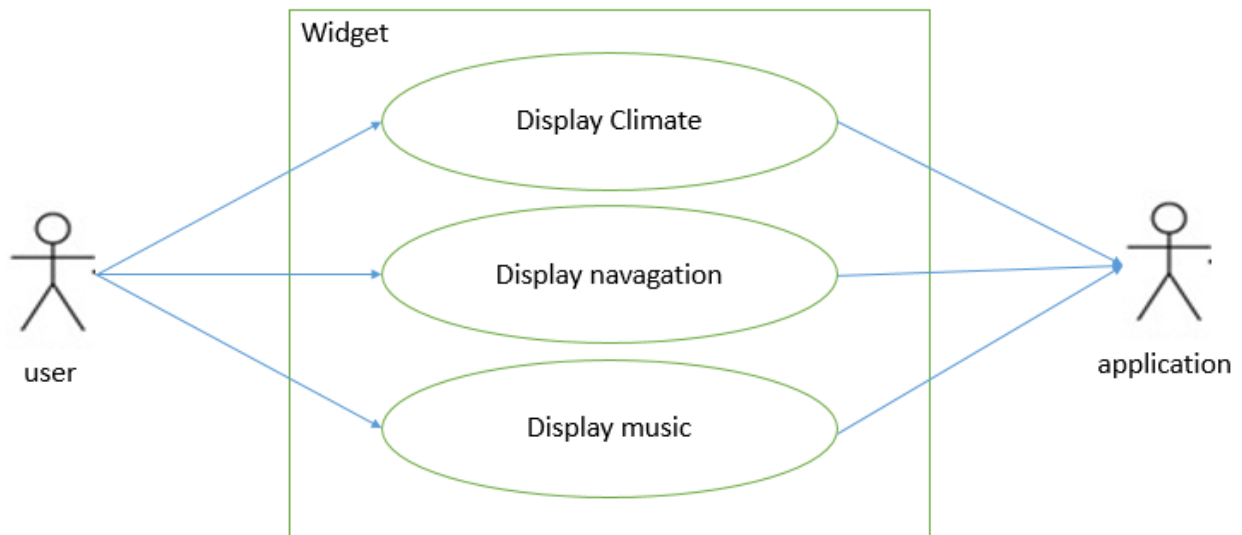


Figure 2: Use case diagram for Widget Area

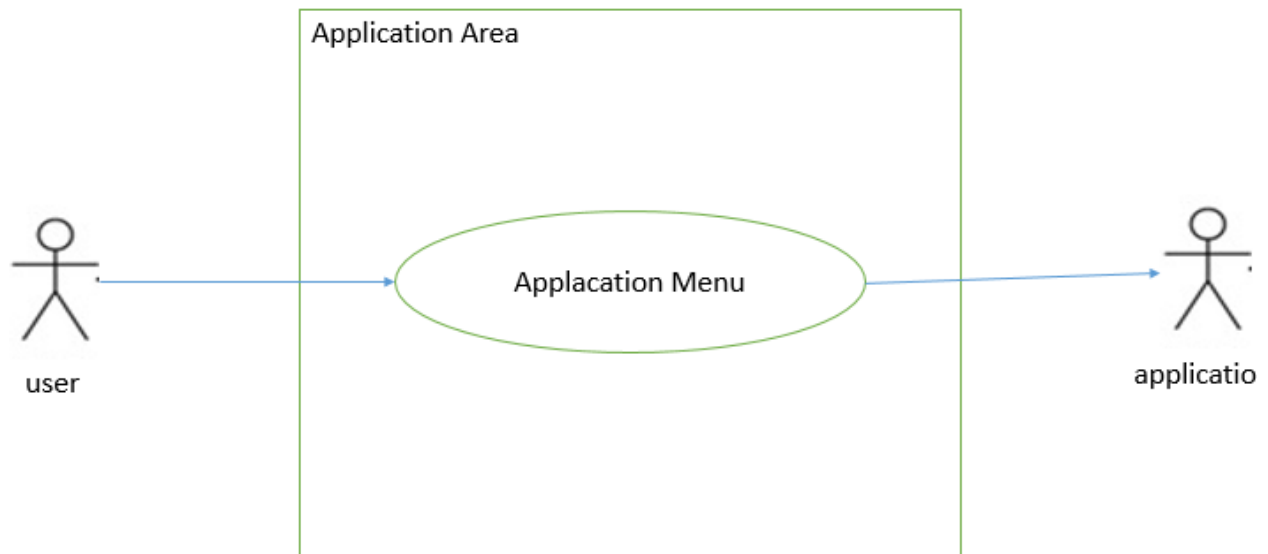


Figure 3: Use case diagram for Application Menu

3. Specification required

Home_SRS_01:

	Description
Purpose	Provides layout in the Home screen
Actor / Event	User
Requirements	<p>Function requirements:</p> <p>Home_SRS_01.1. Home start-up screen is divided into 3 data display areas.</p> <p>Home_SRS_01.2: Statusbar area. Displays information about the status, namely the times.</p> <p>Home_SRS_01.3: Widgets area. Display information of other applications via widgets (media, climate, map).</p> <p>Home_SRS_01.4: Application Menu area. This area is displayed in listview format for the application.</p>

Home_SRS_02:

Term	Description
Purpose	Describe the interaction on the screen
Actor / Event	User
Requirements	<p>Function requirements:</p> <p>Home_SRS_02.1: Displays the applications in the system stored in xml files.</p> <p>Home_SRS_02.2: The displayed list can be scrolled. (if there are more than 6 applications).</p> <p>Home_SRS_02.3: Display information of an application including title, icon of the application. (icon and title of each application must be unique/ different).</p> <p>Home_SRS_02.4: The application list is displayed immediately upon starting the Home application.</p> <p>Home_SRS_02.5: Return to Home screen when Back Button is pressed (if not the Home Screen)</p> <p>Home_SRS_02.6: Up to 6 applications can be displayed at a time.</p> <p>Home_SRS_02.7: Each application will have three different states: Normal, Pressed, Focus when clicking it.</p> <p>Home_SRS_02.8: Use arrow key to move apps on Home Screen</p> <p>Home_SRS_02.9: Open application when clicking on app image or shortcuts</p> <p>Non-function requirements:</p> <p>Home_SRS_02.10: The applications displayed in the menu need to be stored and read from an xml file for users to easily edit and delete.</p> <p>Home_SRS_02.11: Use the Enter key to open the application</p>

	<p>Home_SRS_02.12: Use Backspace key to return to Home screen</p> <p>Home_SRS_02.13: Use arrow key to move apps on Home Screen</p> <p>Home_SRS_02.14: Only one focus can be selected on the Home Screen at a time</p>
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Home_SRS_03:

Term	Description
Purpose	Status Bar area description
Actor / Event	User
Requirements	<p>Function requirements:</p> <p>Home_SRS_03.1: Display time follow format hh:mm, day follow format: MM.DD</p> <p>Home_SRS_03.2: Return to Home screen when Back Button is pressed (if not the Home Screen)</p> <p>Home_SRS_03.3: The date and time are always updated according to the current system date and time. (each one minutes)</p>

Home_SRS_04:

Term	Description
Purpose	Navigation widget description
Actor / Event	User
Requirements	<p>Function requirements:</p> <p>Home_SRS_04.1: Display map and when user click on map, it will switch from home screen to navigation app.</p> <p>Home_SRS_04.2: The current location are always updated according to the current location yours. (each one minutes)</p> <p>Non-function requirements:</p> <p>Home_SRS_04.3: Pressed key “M” to enter map.</p>

Home_SRS_05:

Term	Description
Purpose	Climate Widget description
Actor / Event	User
Requirements	<p>Function requirements:</p> <p>Home_SRS_05.1: Display Climate interface and when user click on interface, it will switch from home screen to climate app and display informations:</p> <ul style="list-style-type: none"> - Drivers's temperature, passenger's temperature: range temperature from 16.5°C to 31.5 °C. + If temperature is lowest (16.5°C), there will be show "LOW" display. + If temperature is highest (31.5°C), there will be show "HIGHT" display. - AUTO: have 2 mode is AUTO on and AUTO off. - SYNC: have 2 mode is SYNC on and SYNC off. - Fan level (1 – 10) - Display Outside: temperature unit is Celsius. - Driver wind direction, passenger wind direction: have 3 mode: on foot, on face, one face and on food. <p>Home_SRS_05.2: Informations on Climate will be updated continously, when there are changed from Climate app.</p> <p>Home_SRS_05.3: Pressed key "C" to enter Climate app.</p> <p>Non-function requirements:</p> <p>Home_SRS_05.4: Climate app will display < 2s after clicked.</p>

Home_SRS_06:

Term	Description
Purpose	Media widget description
Actor / Event	User
Requirements	<p>Function requirements:</p> <p>Home_SRS_06.1: Display summary of Media app and when user click on it, it will switch from home screen to media app with following information:</p> <ul style="list-style-type: none">- Media sources: USB music, DVD,CD, Apple carplay.- Singer name- Song name- Progress bar- Alburm art <p>Home_SRS_06.2: Informations on Media will be updated continously, when there are changed from Media app.</p> <p>Home_SRS_06.3: Pressed key “P” to enter Media app.</p>

Home_SRS_07:

Term	Description
Purpose	Application menu description
Actor / Event	User
Requirements	<p>Function requirements:</p> <p>Home_SRS_07.1: Display list of application when starting up Home app.</p> <p>Home_SRS_07.2: Only one focus can be selected on the Home Screen at a time.</p> <p>Home_SRS_07.3: Use your mouse to sort apps with mode drag and drog.</p> <p>Home_SRS_07.4: Remember apps location after restarting application.</p>

