

Software requirement specification

Home Application

Version 1.2

Prepared by Pham Nhat Minh Tan

Instructed by Pham Ba Thanh (Mentor)

History

Version	Author	Inspector	Date	Detail
1.2	TanPNM	ThanhPB	15/04/2021	<ol style="list-style-type: none"> 1. Delete Home_SRS_02.3 2. Update Home_SRS_02.4, Home_SRS_02.5 3. Update Home_SRS_07
1.1	TanPNM	ThanhPB	09/03/2021	<ol style="list-style-type: none"> 1. Remove History from Table Content. 2. Remove figure 2 in Use case. 3. Update Home_SRS_01.2, Home_SRS_01.3, Home_SRS_01.4. 4. Update Home_SRS_02.2, Home_SRS_02.3, Home_SRS_02.4, Home_SRS_02.5, Home_SRS_02.6, add Home_SRS_02.7 in functional requirement. 5. Update target of Home_SRS_03, Home_SRS_03.1, Home_SRS_03.2, add Home_SRS_03.4. 6. Update target of Home_SRS_04, Home_SRS_04.2 Update target of Home_SRS_06, Home_SRS_06.2, Home_SRS_06.3, Home_SRS_06.4
1.0	TanPNM	ThanhPB	28/02/2021	Create SRS

Table of Contents

1. Introduction	3
1.1 Purpose	3
1.2 Scopes	3
1.3 Audience	3
1.4 Abbreviations	3
2. Use Case Diagram	4
3. Software Requirements Specification	5

1. Introduction

1.1 Purpose

The purpose of this document is to provide a complete and accurate description of the requirements for the Home application. This document can be used as input for the design and testing of the Home app.

1.2 Scopes

This document defines a requirement to develop FUNiX's Home application.

1.3 Audience

FUNiX, Developer, Tester

1.4 Abbreviations

SRS: Software Requirement Specification

SW: Software

TBD: To be defined

IVI: in-vehicle infotainment

2. Use Case Diagram

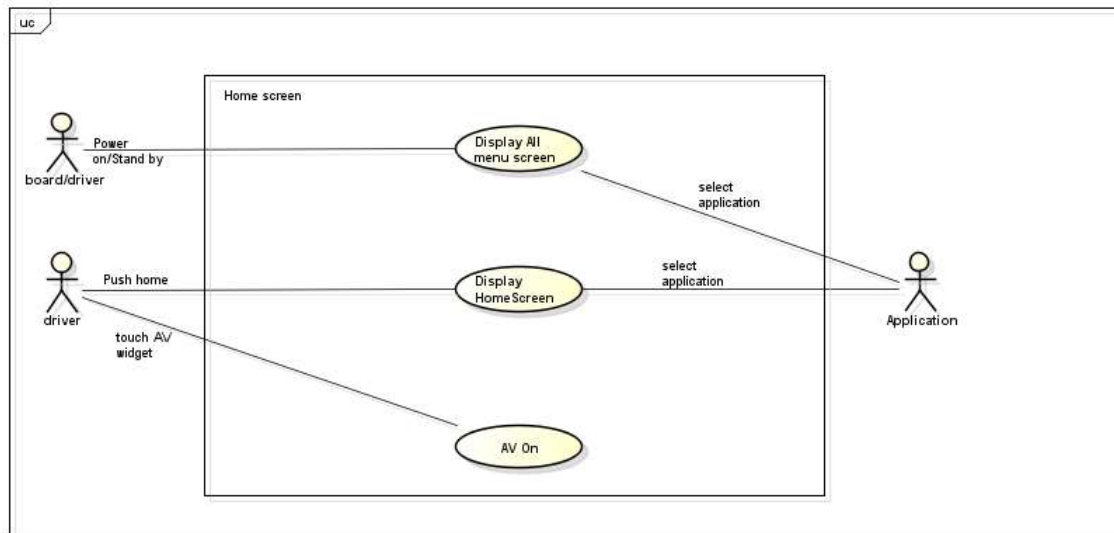
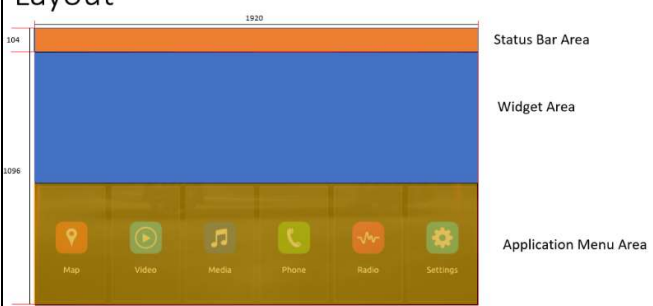


Figure 1: Use case diagrams for the Home app

3. Software Requirements

Specification

Home_SRS_01:

	Description
Target	Provide a layout in the Home screen
Actor / Event	User
Requirements	<p>Functional requirements:</p> <p>Home_SRS_01.1. Home start screen is divided into 3 data display areas.</p> <p>Layout</p>  <p>Home_SRS_01.2. The Status Bar area. Displays information about the status such as time system.</p> <p>Home_SRS_01.3. Widgets area. Display information of other applications via widgets (media, climate, map) in real-time.</p> <p>Home_SRS_01.4. Application Menu area. This area is displayed in horizontal list view for the application.</p> <p>Home_SRS_01.5. Displays the Back button in the Status Bar area when the open page is not the Home page.</p>

Home_SRS_02:

Term	Description
Target	Describe the interaction on the screen
Actor / Event	User
Requirements	<p>Functional requirements:</p> <p>Home_SRS_02.1: Displays applications in the system stored in xml files.</p> <p>Home_SRS_02.2: Information displayed of an application including the title and icon of the application.</p> <p>Home_SRS_02.3: If have more than 6 apps user can scroll application list.</p> <p>Home_SRS_02.4: Up to 6 applications can be displayed at a time on a page.</p> <p>Home_SRS_02.5: Can reorder applications in list.</p> <p>Home_SRS_02.6: Click on applications or widget to open it.</p> <p>Non-functional requirements:</p> <p>Home_SRS_02.7: App list display time <2s after starting the Home app.</p> <p>Home_SRS_02.8: The applications displayed in the menu need to be stored and read from an xml file for users to easily edit and delete.</p>

Home_SRS_03:

	Description
Target	Displays a list of applications in the Applications Menu
Actor / Event	User
Requirements	<p>Functional requirements:</p> <p>Home_SRS_03.1. The list of applications in the IVI system is displayed in the Application Menu.</p> <p>Home_SRS_03.2. Each application is separate in a separate frame. Required apps and icons can't be duplicated.</p> <p>Home_SRS_03.3. Highlight the application frame when the app is in focus.</p> <p>Home_SRS_03.4: Open applications by click on applications</p>

Home_SRS_04:

	Description
Target	Show information of Status Bar
Actor / Event	User
Requirements	<p>Functional requirements:</p> <p>Home_SRS_04.1. The current time is placed in the middle of the Status Bar area.</p> <p>Home_SRS_04.2. Current time includes current date and current time and minute of system.</p> <p>Home_SRS_04.3. Hours and minutes are displayed in HH: MM, date is displayed in MM: DD.</p>

Home_SRS_05:

	Description
Target	Show map
Actor / Event	User
Requirements	Functional requirements: Home_SRS_05.1. The Map is placed in the Widget area. Home_SRS_05.2. The map will expand when user click on the map application in the Widget area.

Home_SRS_06:

	Description
Target	Show air conditioner information
Actor / Event	User
Requirements	Functional requirements: Home_SRS_06.1. Information of climate is placed in the Widget area. Home_SRS_06.2. On the climate widget displays information about the air conditioner such as temperature, fan mode, ... Home_SRS_06.3. Show information received from climate application to air conditioner widget in real-time. Home_SRS_06.4. The air conditioner will expand when user click on air conditioner widget.

Home_SRS_07:

	Description
Target	Show music player information
Actor / Event	User
Requirements	Functional requirements: Home_SRS_07.1. The music player is placed in the widget area. Home_SRS_07.2. On the music player widget displays information about the current song such as song title, artist name and album image of the song. Home_SRS_07.3. Open the music player application when clicking Widget Music Player.

	Home_SRS_07.4. Show information received from media player application to media widget in real-time.
--	---