Software requirement Specification

for

Home application

Version 1.0 approved

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Revision History

Name	Date	Reason to change	Version
Trung	28/02/2021	Initialize document	1.0

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 Project Scope

This document defines a requirement to develop FUNiX's Home application
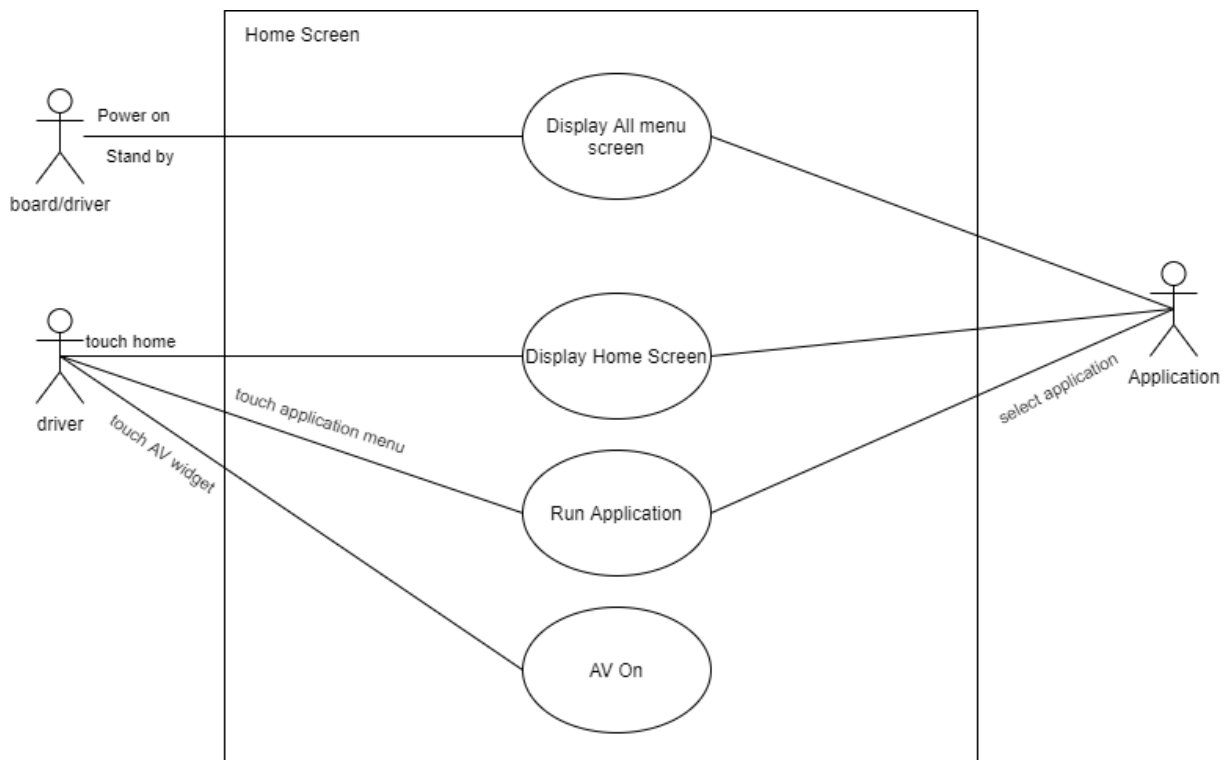
1.3 Intended Audience and Reading Suggestions

- Developer
- Tester
- FUNiX

1.4 Document Conventions

- SRS: Software Requirement Specification
- SW: Software

2. Overall Description

2.1 Use case Diagram

3. System Feature

3.1 System Feature 1

	Description
Goal	Provide layout in home screen
Actor	User
Event	Power on
Requirement	**Home_SRS_01.1** Home Screen has 3 display are

Home_SRS_01.2 Statusbar area. Display information about status(time,…)

Home_SRS_01.3 Widget area. Display information of other application via widgets (media, climate, map)

Home_SRS_01.4 Application area menu. This area is displayed in listview format for the application

3.2 System Feature 2

	Description
Goal	Describe the interaction on the screen
Actor	User
Event	Touch

Requirement	**Home_SRS_02.1** Displays the applications in the system store in xml file **Home_SRS_02.2** The displayed list can be scrolled **Home_SRS_02.3** Display information of an application including title, icon of the application **Home_SRS_02.4** when app is selected, show focus image and only one focus image is available at the time **Home_SRS_02.5** when app is opened, the screen have button back to comeback home screen Non-functional requirements: **Home_SRS_02.5** Time for displaying application list < 2s after starting Home application **Home_SRS_02.6** The applications displayed in the menu need to be stored and read from an xml file for user to easily edit and delete

3.3 System Feature 3

	Description
Goal	Show information in status bar
Actor	User
Event	Power on
Requirement	**Home_SRS_03.1** Displays clock time based on 24 hour system. Second are not given. Time segments is "HH:MM". It in center at status bar **Home_SRS_03.2** Displays date of month with format "dd:MM" at center at status bar **HOME_SRS_03.3** Displays signal strength in mobile phone network **HOME_SRS_03.4** Displays connected to wi-fi network **HOME_SRS_03.5** Expect clock time and date, all icon will show at right side of status bar

3.4 System Feature 4

	Description

Goal	Show media app via widget
Actor	User
Event	Power on, Click on
Requirement	**HOME_SRS_04.1** Show title of widget **HOME_SRS_04.2** Displays name of song and singers **HOME_SRS_04.3** Displays playback time in the process bar **HOME_SRS_04.4** Background of widget shows album art cover **HOME_SRS_04.5** Displays album art cover as icon in the widget **HOME_SRS_04.6** when click, run media application

3.5 System Feature 5

	Description
Goal	Show climate app via widget

Actor	User
Event	Power on, Click on
Requirement	**HOME_SRS_05.1** Displays information of widget **HOME_SRS_05.2** Displays driver and passenger text and icon **HOME_SRS_05.3** Displays the wind direction of driver and passenger by icon **HOME_SRS_05.4** Displays the temperature outside of car **HOME_SRS_05.5** Displays the temperature inside of car **HOME_SRS_05.6** if the temperature is lower than 16℃, displays "Low" and it's higher then 27.5℃, displays "High" **HOME_SRS_05.7** Displays the status of auto is on or off by icon **HOME_SRS_05.8** Displays the status of sync is on or off by icon

	Description
	HOME_SRS_05.9 Displays the fan and the intensity of fan by icon **HOME_SRS_05.10** When click on app , run application

3.6   System Feature 6

	Description
Goal	Show media app via widget
Actor	User
Event	Power on, Click on
Requirement	**HOME_SRS_06.1** Displays the position of the vehicle on map in real time **HOME_SRS_06.2** When click on app, run that application

3.7   System Feature 7

	Description
Goal	Describe Application layout

Actor	User
Event	Power on
Requirement	**Home_SRS_07.1** The displayed list can be scrolled **Home_SRS_07.2** The application list is displayed right after starting the Home application **Home_SRS_07.3** Can display up to 6 applications at the time **HOME_SRS_07.4** Expect clock time and date, all icon will show at right side of status bar

3.8 System Feature 8

	Description
Goal	Show other app via application layout
Actor	User
Event	Power on, Click on
Requirement	**HOME_SRS_08.1** Displays name of app **HOME_SRS_08.2** Displays icon of app

	HOME_SRS_08.3 When click on app, run that application