

SOFTWARE REQUIREMENT SPECIFICATION FOR HOME APPLICATION

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REVISION HISTORY

Date	Description	Version
23/06/2021	First release	1.0
26/07/2021	Fix 1 st Review	1.1

1 INTRODUCTION

1.1 Purpose

Describe functions and non-functions requirements for Home Application. This document provides information for project team members, helping implementation and correction of the application.

1.2 Project Scope

Define requirements for Home Application.

1.3 Audience

FUNiX, Developer, Tester

1.4 Abbreviation

- SRS: Software Requirement Specification
- Fig: Figure

2 USE CASE DIAGRAM

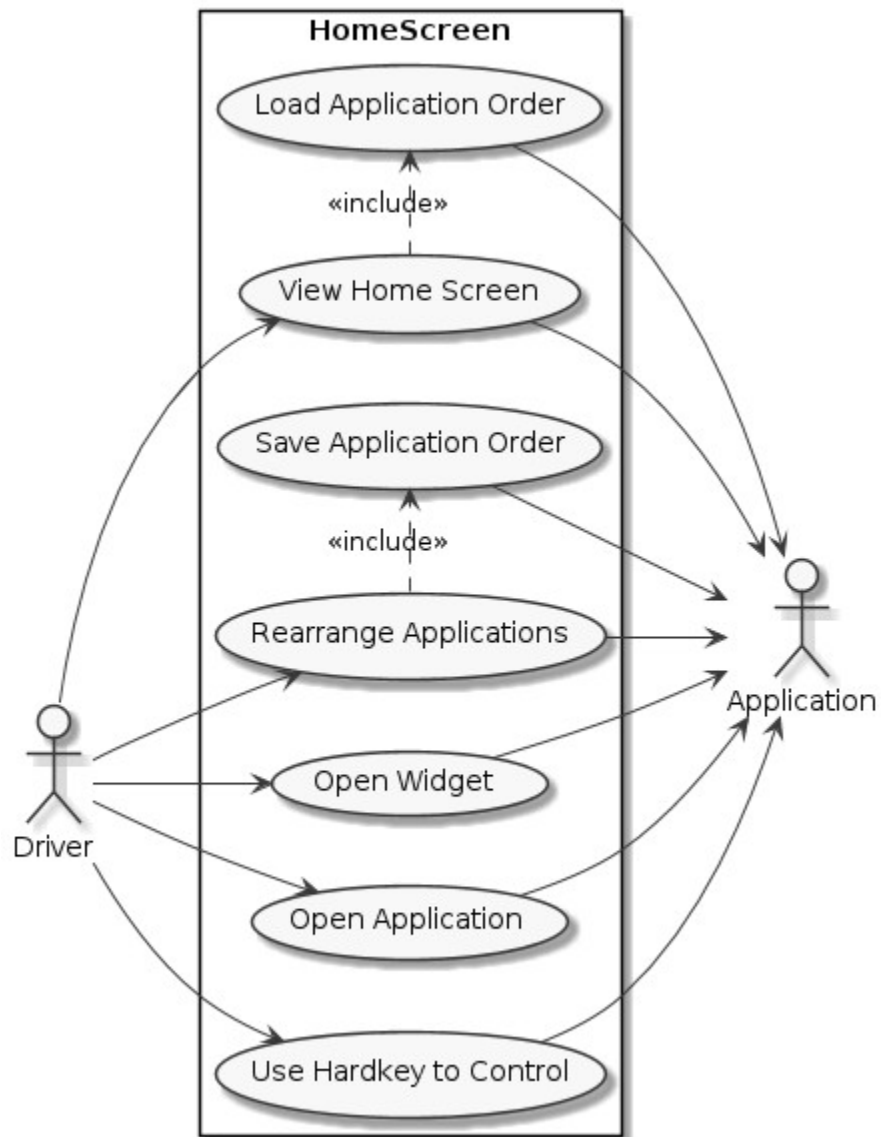


Fig 1: Use Case Diagram

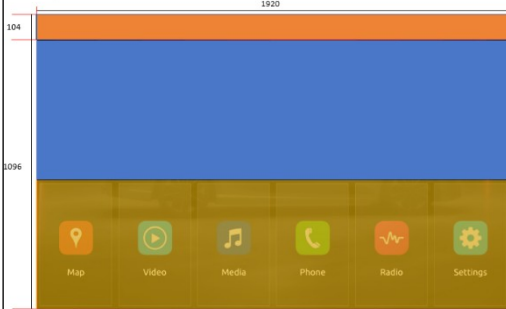
3 SPECIFIC REQUIREMENTS

3.1 SRS List

SRS	Actor	Description/Purpose
Home_SRS_01	User	Application Layout
Home_SRS_02	User	Home screen interaction
Home_SRS_03	User	Status Bar detail
Home_SRS_04	User	Widget detail
Home_SRS_05	User	Applications detail
Home_SRS_06	User	Control use hard keys

3.2 Software Requirements Specification

3.2.1 HOME_SRS_01

Actor	Driver
Purpose:	Application Layout
Functional Requirements	
ID	Description
Home_SRS_01.1	<p>Home screen layout is divided into 3 sections: Status Bar, Widgets, Layout</p>  <p><i>Fig 2: Application Menu</i></p>
Home_SRS_01.2	Status Bar: Display current datetime.
Home_SRS_01.3	Widgets: Display widget information (media, climate, map).
Home_SRS_01.4	Application Menu: Display applications in a List View.
Home_STS_01.5	Focus: Only one widget or application can be focused at a time

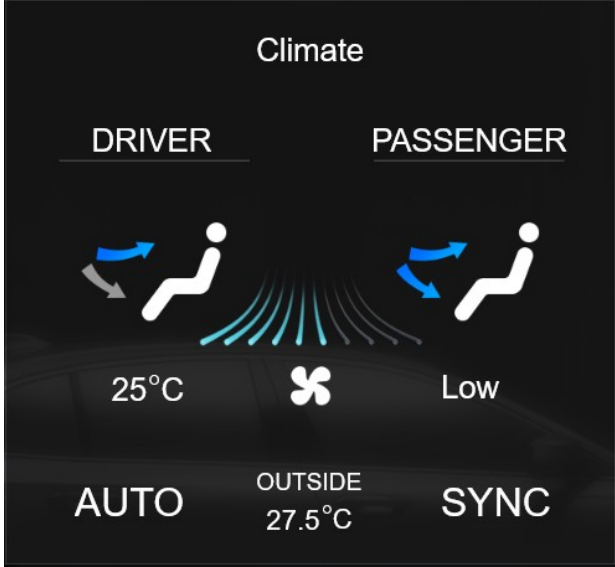
3.2.2 HOME_SRS_02

Actor(s):	User
Purpose:	Home screen interaction
Functional Requirements	
ID	Description
Home_SRS_02.1	Display applications that stored in .xml file.
Home_SRS_02.2	List applications that could be scroll over if there are more than six applications.
Home_SRS_02.3	Show detail of applications that contain title, icon.
Home_SRS_02.4	List of application immediate show up when Home Application is opened.
Home_SRS_02.5	Applications list could be rearrange and stored in .xml file.
Home_SRS_02.6	Open application / widget with touchpad or hardkey will open the application screen.
Home_SRS_02.7	Application / Widget icon have 3 status: normal, focused, pressed
Non-Functional Requirements	
ID	Description
Home_SRS_02.8	List application must have no more than 2 seconds after Home Application is opened.
Home_SRS_02.9	Applications on List Application must be stored in a .xml file that user could be adjusting easily by drag and drop.

3.2.3 HOME_SRS_03

Actor(s):	User
Purpose:	Status Bar detail
Functional Requirements	
ID	Description
Home_SRS_03.1	Status Bar component display current date and time.
Home_SRS_03.2	Display time with format “hh:mm”, example: 19:04
Home_SRS_03.3	Display date with format “MMM. dd”, example: Jun. 23)
Home_STS_03.4	If not in Home screen, show Back button.
Non-Functional Requirements	
ID	Description
Home_SRS_03.4	Use date time that system provided
Home_SRS_03.5	Datetime update immediately when every minute passed.

3.2.4 HOME_SRS_04

Actor(s):	User
Purpose:	Widget component detail
Functional Requirements	
ID	Description
Home_SRS_04.1	Display 3 components: Map, Climate, Media Player
Home_SRS_04.2	Map Widget display current vehicle position on google map.
Home_SRS_04.3	<p>Climate Widget display current conditioner information.</p>  <p><i>Fig 3: Climate widget</i></p> <p>Subcomponents:</p> <ul style="list-style-type: none"> - Title : display widget name - Driver wind flow mode: display current wind flow mode on driver position. 3 mode: Foot, Head, Foort & Head - Passenger wind flow mode: display current wind flow mode on passenger position. 3 mode: Foot, Head, Foort & Head - Wind direction : display win direction mode. - Wind level : display fan and current level of win (maximum 10 level). 10 levels. - Inside temperature: display current temperature inside vehicle. - Auto: When turned on, setting of climate application will be automatic configured. 2 mode: ON and OFF - Sync: When turned on, passenger flow mode with be synchronized with driver. 2 mode: ON and OFF - Outside temperature: display current outside temperature.
Home_SRS_04.4	Media Player Widget display current playing music.

	 <p><i>Fig 4: Media Player</i></p> <p>Subcomponents:</p> <ul style="list-style-type: none"> - Title : display widget name - Thumbnail Image: display thumbnail art - Author, Singer: display singer and author of music - Song name: display name of the song. - Progress bar: display current progress of the song
Home_SRS_04.5	Information on Climate Widget get from Climate Application.
Home_SRS_04.6	Information on Map Widget get from Map Application.
Home_SRS_04.7	Information on Media Widget get from Media Application.
Home_SRS_04.8	Information on Widgets update in real time.
Home_SRS_04.9	Widget have 3 status: Normal, Focused, Pressed.

3.2.5 HOME_SRS_05

Actor(s):	User
Purpose:	Applications detail
Functional Requirements	
ID	Description
Home_SRS_05.1	Applications menu display all applications that installed on system.
Home_SRS_05.2	Application display with icon, title
Home_SRS_05.3	Application could be open and close
Home_SRS_05.4	Application menu could be scroll over if there are more than 6 applications
Home_SRS_05.5	Rearrange by press and hold application.
Home_SRS_05.6	Order of applications should be saved.

Home_SRS_05.7	Focus at 1 st application at the first start.
Non-Functional Requirements	
ID	Description
Home_SRS_05.8	Application order should be intact even when app closed.

3.2.6 HOME_SRS_06

Actor(s):	User
Purpose:	Control using Hard Keys
Functional Requirements	
ID	Description
Home_SRS_06.1	Use hard keys could be used to control the screen.