

Compsys 302 project

Android application design docs



Gayeon Kim

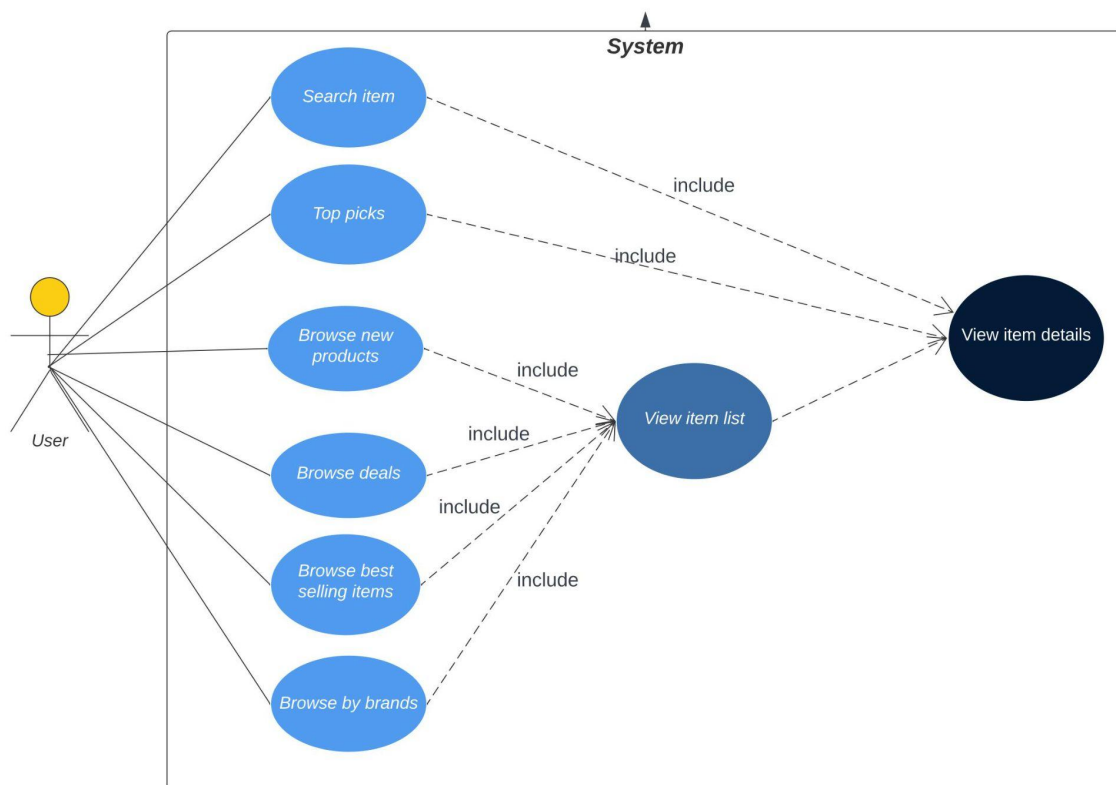
Xuhan Liu

15th May, 2022

Introduction

Our team is developing an android application that is used to showcase some electronic devices. Using our application the user will be able to see multiple top picks, new products, deals and best selling items. The user also can browse items categorised in three different popular brands (apple,samsung and microsoft). The user will be able to check the model name, price, rating and detailed description. The application will allow the user to search the product the user wants. We are aiming to develop an application that provides a good accessibility for the user.

System modelling



<Use case diagram>

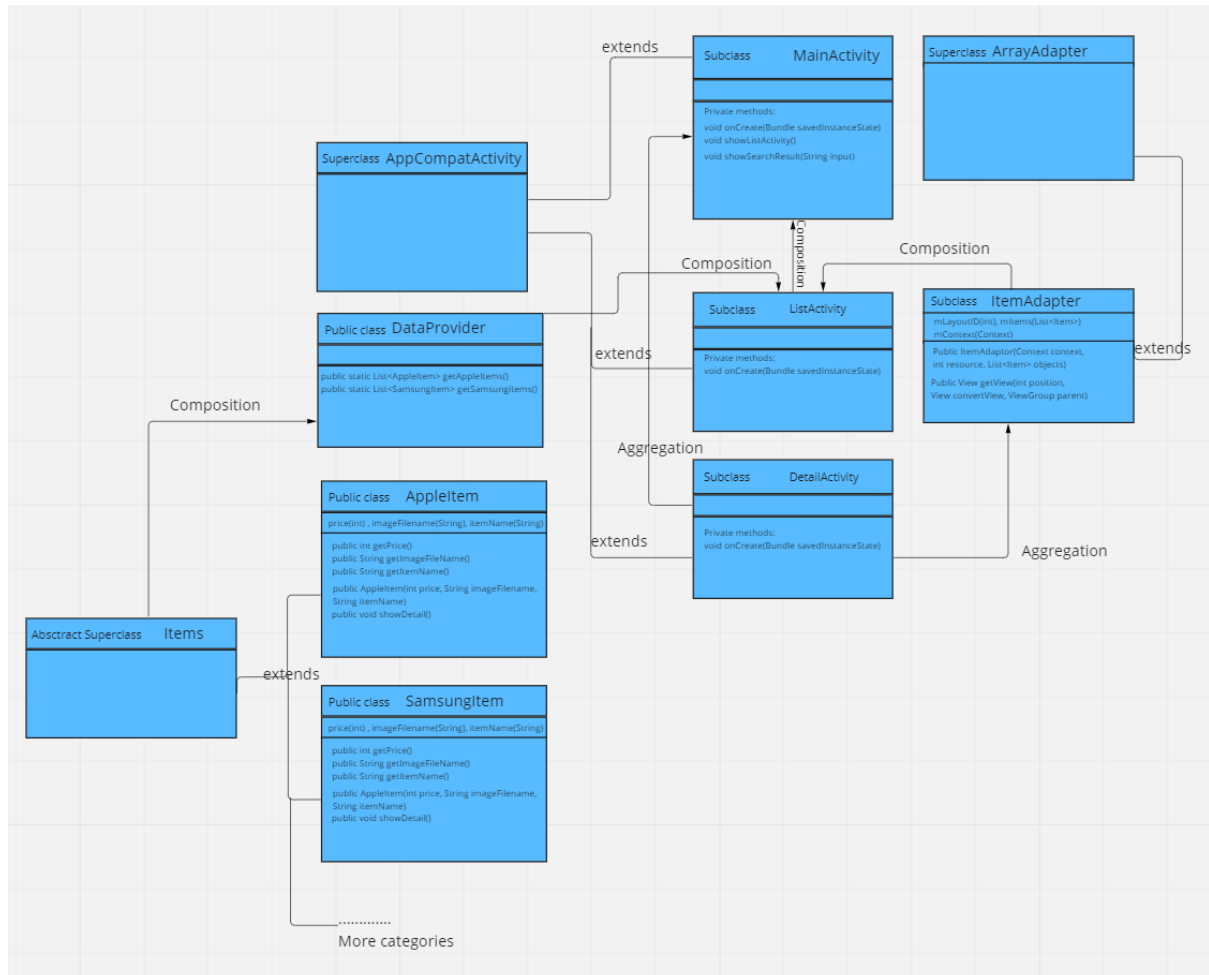
In our application, there is a search functionality which will allow the user to search the item the user wants and show the related products. If the user clicks an item it will take the user to the screen where detailed information such as name, price, rate and description are displayed. (detailed view) The user also can see multiple images of a product by clicking the next button in the detailed view screen.

There are top pics on the screen just below the search bar. The top pics are shown with its image and name. The user can click the next button to see more top pics. Similar to the user searching the item, clicking the top pics will take the user directly to the detailed view screen. If the user scrolls down the main screen, the user can see “new products”, “deals” and “best selling”. If the user clicks one of these, it will show the list of items. (list view). On this screen, the items are shown with their image, name and price. The user can scroll up and down to see all the products listed.

Also, there are 3 different brand categories which are Apple, Samsung and Microsoft. When the user clicks one of these options, it takes the user to the list view screen just the same as clicking “new products”, “deals” and “best selling”. When the user clicks one of the items in the list view, it will take the user to the detailed view screen as explained above.

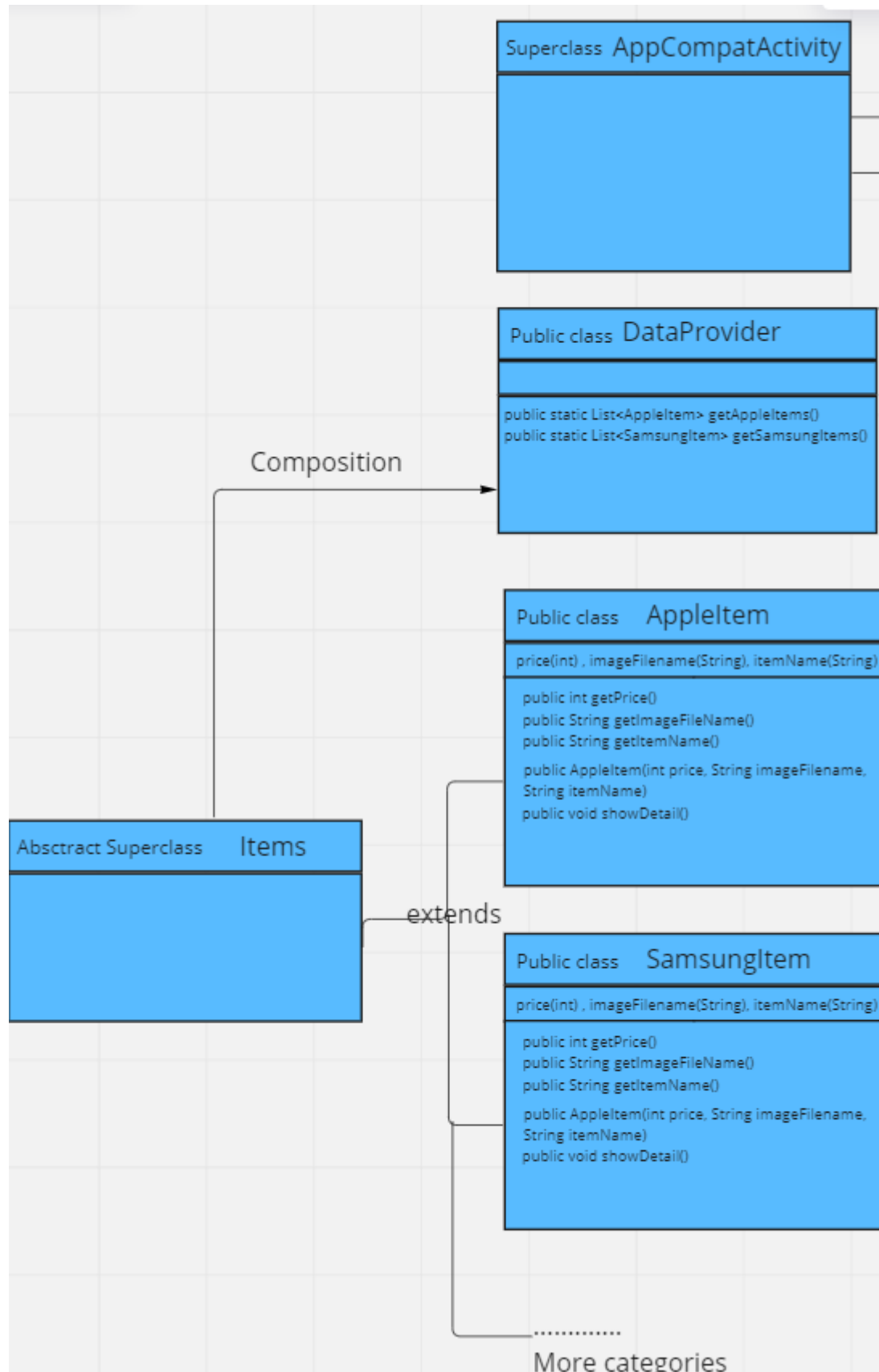
In the list view screen and detailed view screen, there is an arrow which goes back to the previous screen when the user clicks it.

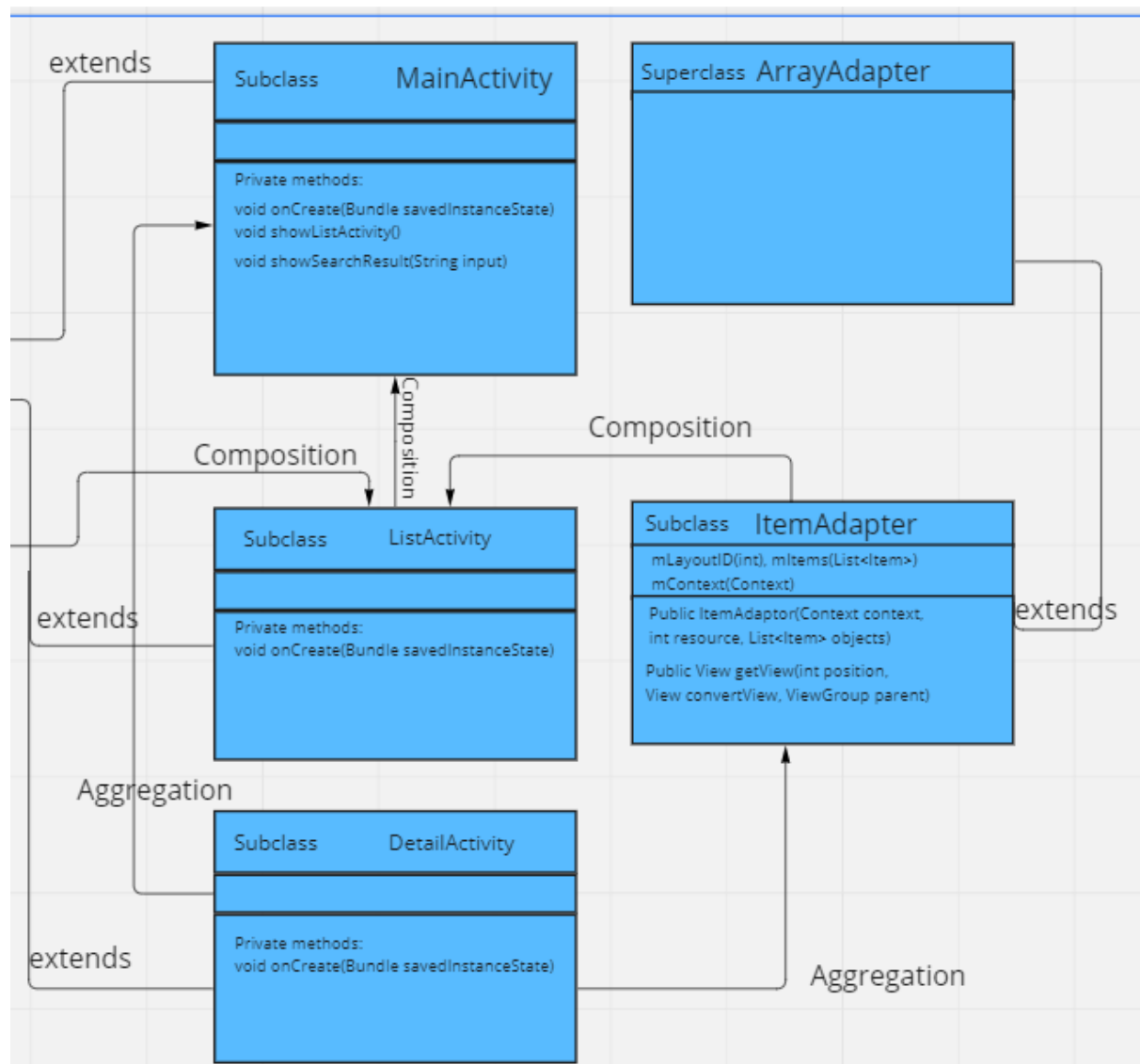
System design



Zoomed in images in the next page for clarity

Zoom in to see the texts clearly:

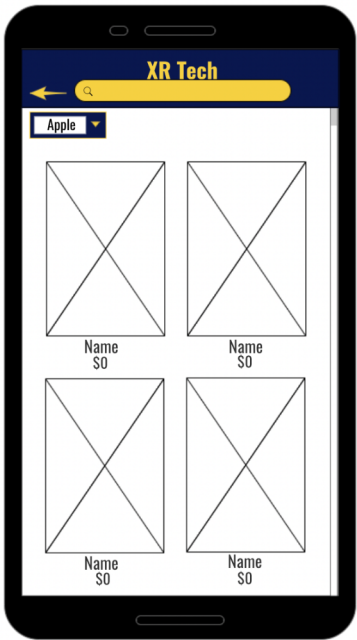




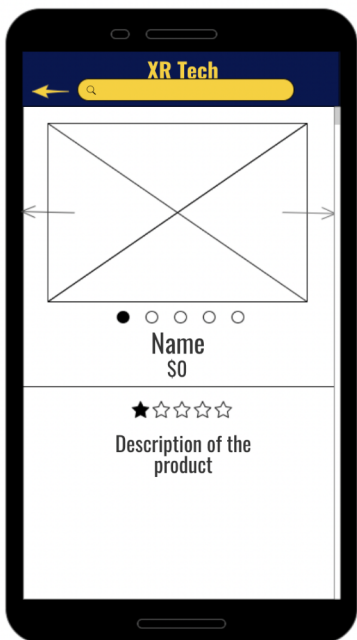
GUI design Mocks



Main screen



List view



Detailed view

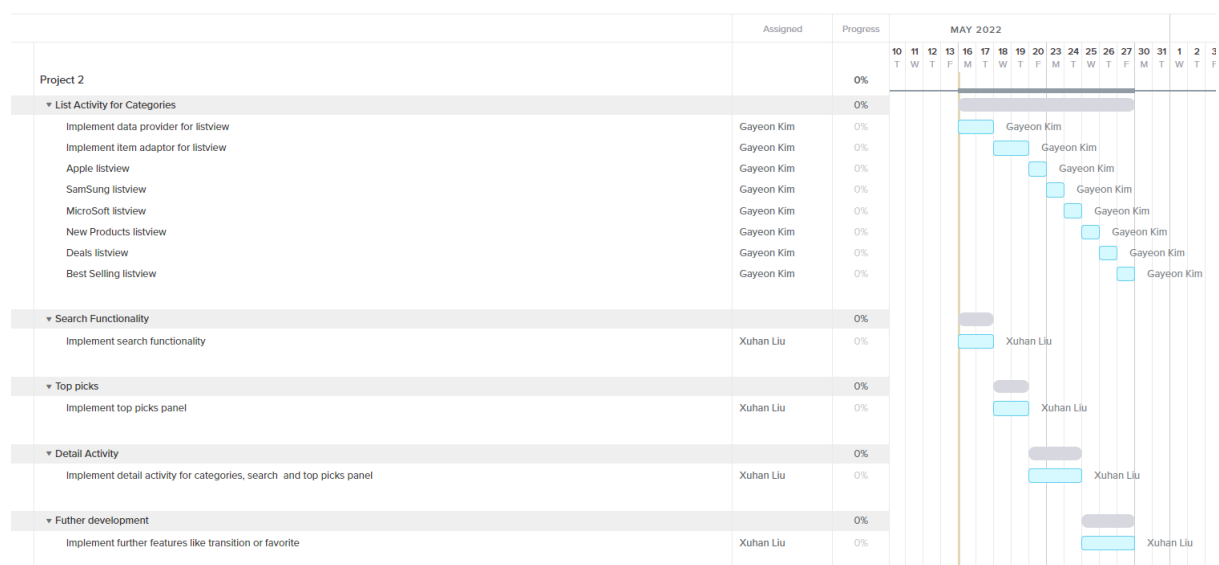
Project schedule

The roles of each developer:

Gayeon Kim: Implement list activity for categories. (include item adaptor and item data provider for those categories)

Xuhan Liu: implement search functionality and top picks in the main activity. Implement the details activity for items and further features like the transition between activities and the favourite button.

Gantt Chart:



Zoomed in images in the next page for clarity

Zoom in to see the texts clearly:

Project 2

▼ List Activity for Categories

Implement data provider for listview

Gayeon Kim

Implement item adaptor for listview

Gayeon Kim

Apple listview

Gayeon Kim

SamSung listview

Gayeon Kim

MicroSoft listview

Gayeon Kim

New Products listview

Gayeon Kim

Deals listview

Gayeon Kim

Best Selling listview

Gayeon Kim

▼ Search Functionality

Implement search functionality

Xuhan Liu

▼ Top picks

Implement top picks panel

Xuhan Liu

▼ Detail Activity

Implement detail activity for categories, search and top picks panel

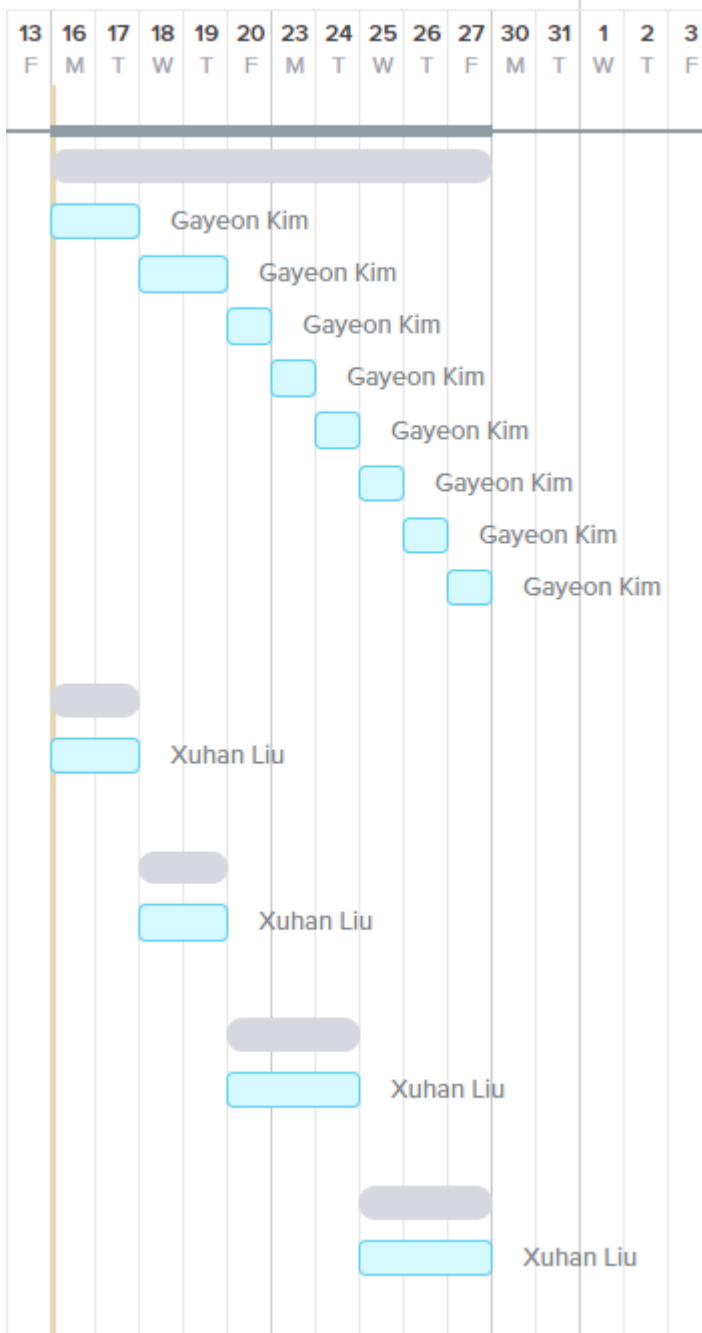
Xuhan Liu

▼ Futher development

Implement further features like transition or favorite

Xuhan Liu

MAY 2022



About the participation in this design document.

Section	Developers
1. Introduction	Both developers
2. System Modelling	Developer 1
3. System Design	Developer 2
4. GUI Mocks	Developer 1
5. Project Schedule	Both Developers

Developer 1 is Gayeon Kim and Developer 2 is Xuhan Liu