Mobile Application Development
Lecture 02: Project 01

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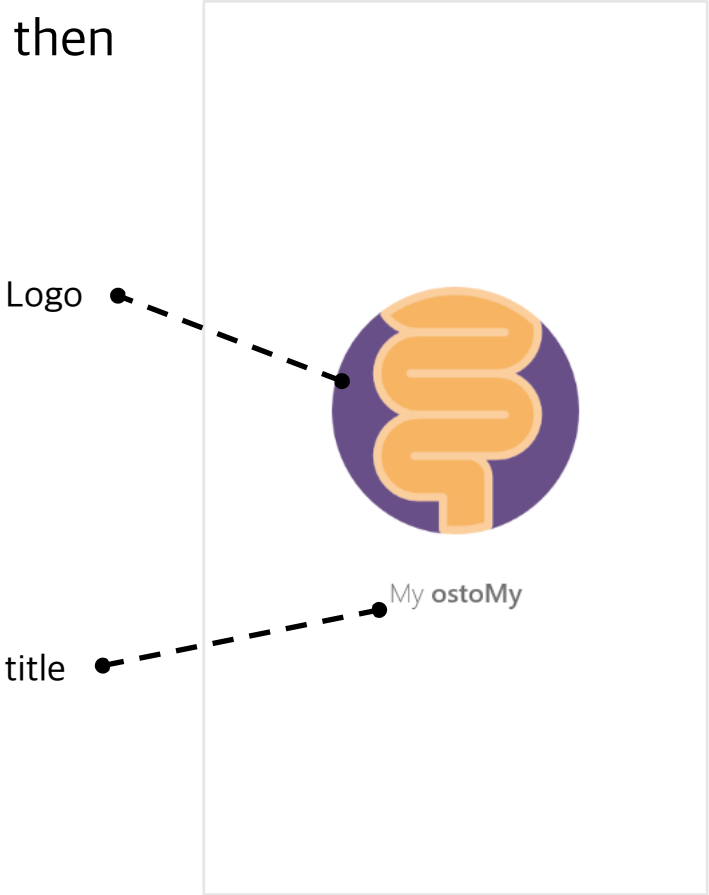
- If you have any difficulty to proceed the project, please contact Teaching assistant (TA).
- TA's email : dpslab.cau@gmail.com
- The open chat room will be coming up soon.

Application overview

- A Project 01 contains overall basic functions for android development.
- button, list, imageview, … etc…
- Responsive design does not need it.
- Result : .java, apk, readme file(Format can be word, pptx, txt.)

Application detail

- The screen is displayed for about 2~3 seconds and then goes to main.



- Quick menu : When you click the quick menu, you can see the detail list of main category
- Main category images : When you click the image, display will be change to detail of image's title

Quick menu
(Navigation Drawer)

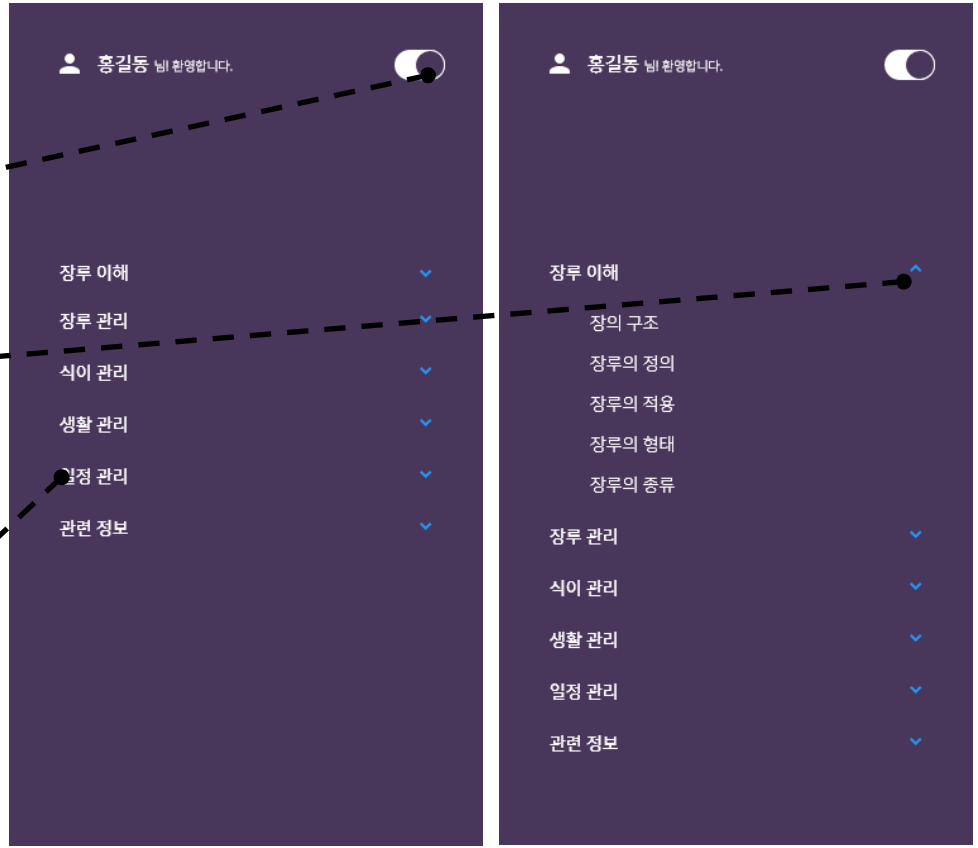
List of main category using images

- When you click the arrow, you can see the divison categories.

Alarm on/off

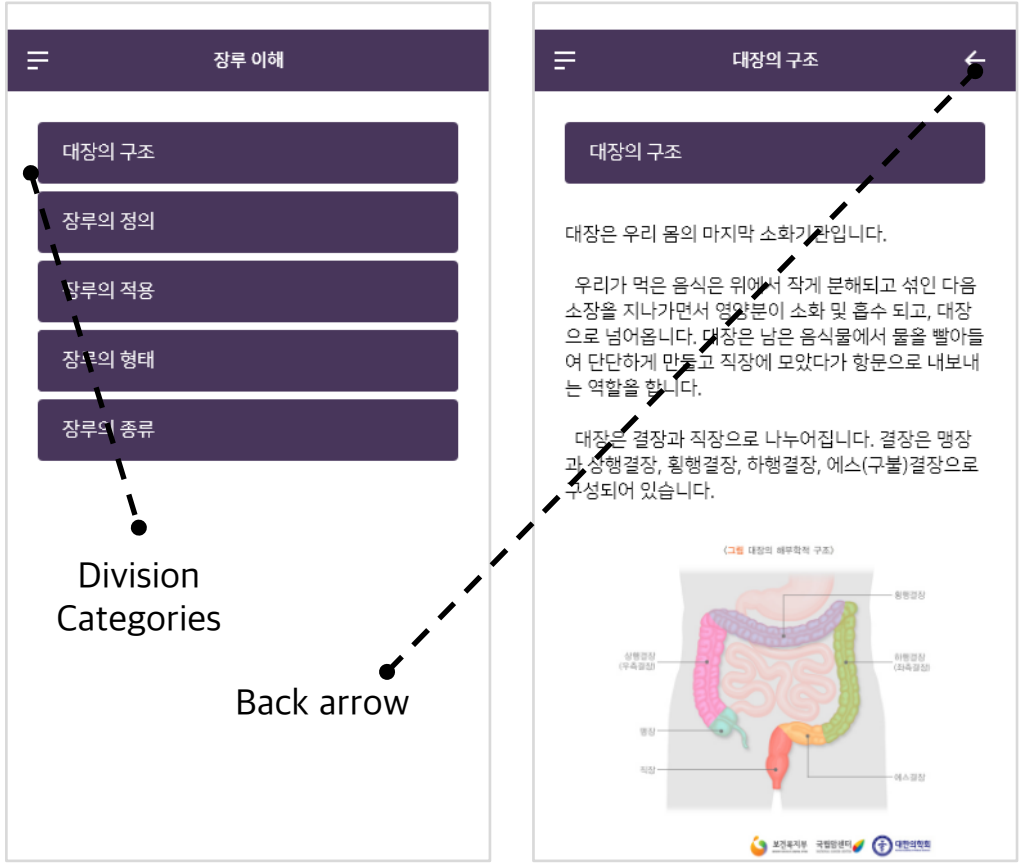
Arrow for division category

The main Categories are shown first.



- List of division categories : When you click the division categories, detail content will be shown as right picture.

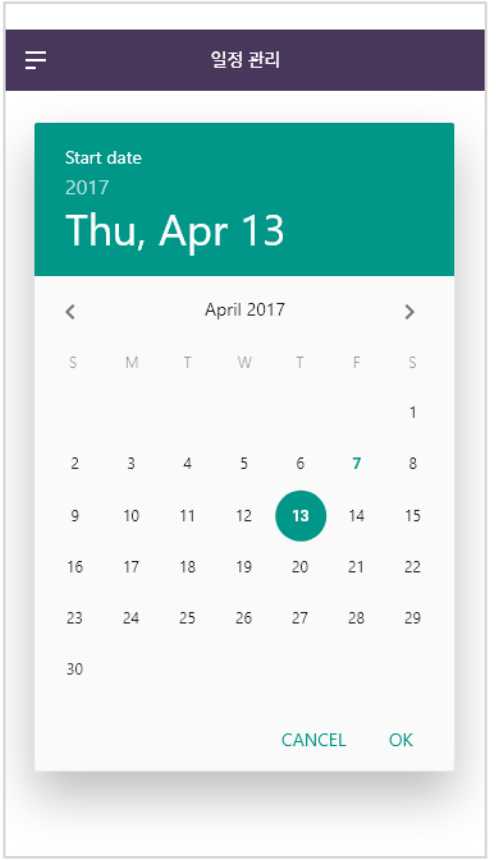
- Back arrow : When you click the back arrow, division categories will be shown again.



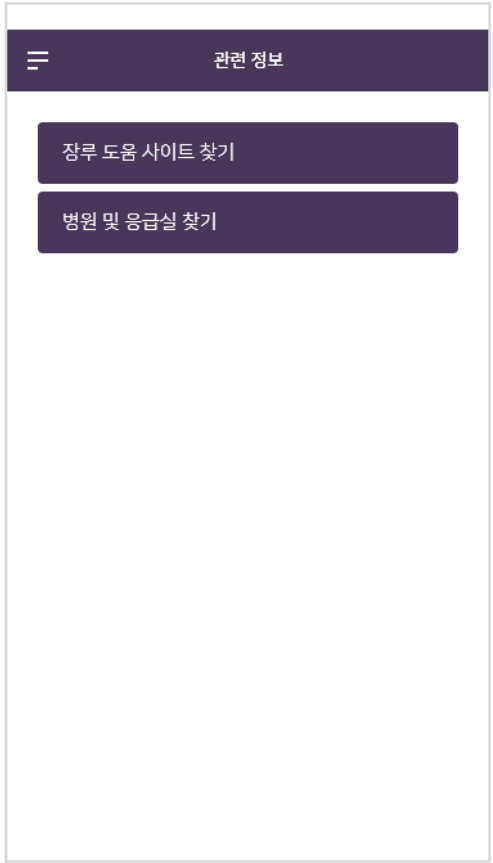
- Calendar : This is for management simple schedule.

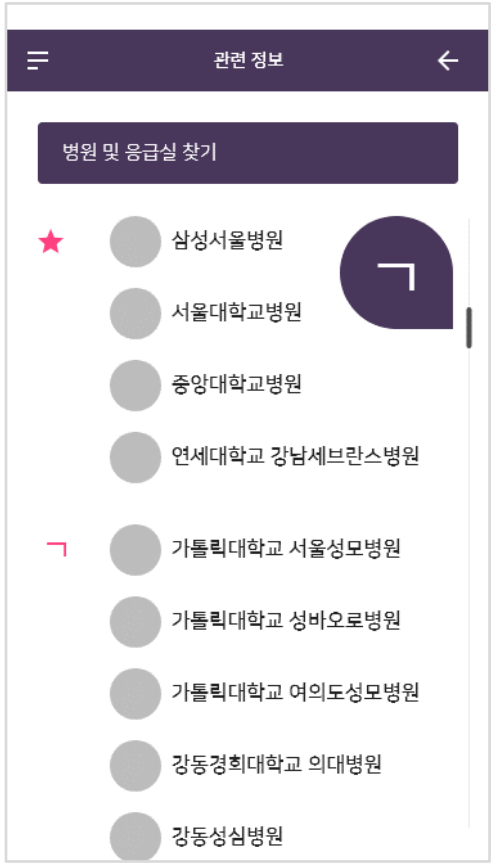
- Detail function
  - simple memo at specific day. (Through click the day)
  - simple alarm at specific day. (The alarm can be off through button in quick menu.

- You can use API, open source library free. (just specific in readme file)



- Sorted list will be shown in display.
  - (ABC for foreigners, ㄱㄴㄷ for Koreans)
- The top of the list has high priority.
  - So they ignored the order.





App basics

- The system must know that the **component** exists by reading the app's *manifest file*.

- Declaring as follows

```
<?xml version="1.0" encoding="utf-8"?>
<manifest ... >
    <application android:icon="@drawable/app_icon.png" ... >
        <activity android:name="com.example.project.ExampleActivity"
                  android:label="@string/example_label" ... >
        </activity>
        ...
    </application>
</manifest>
```

- For app componets
  - <activity>, <service>, <reciever>, <provider>

- To protect an Android user. Application have to request permission sometimes.
- Declaring as follows

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
          package="com.example.snazzyapp">

    <uses-permission android:name="android.permission.SEND_SMS"/>

    <application ...>
        ...
    </application>
</manifest>
```

And some tutorial with TA…

- button
- TextView, ImageView
- IntroActivity (splashActivity)