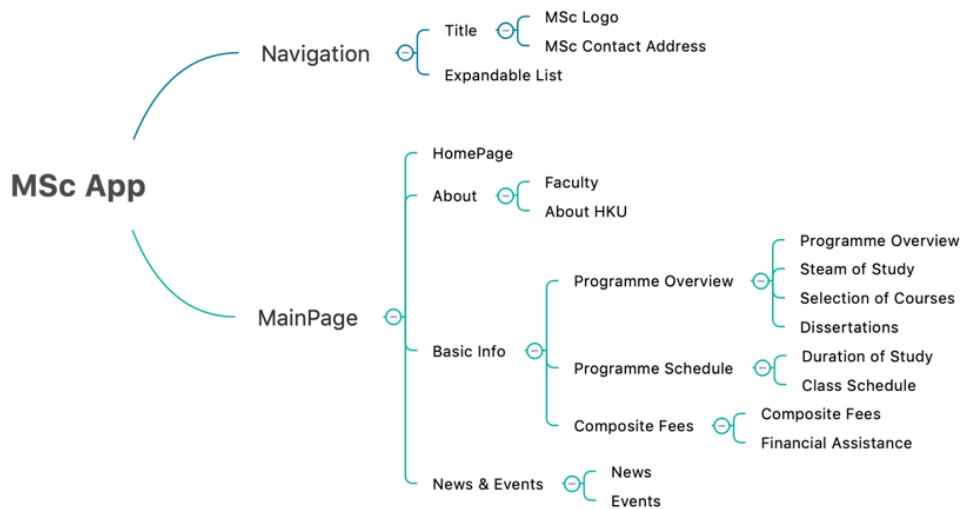


COMP7506 - MScApp

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1 Basic framework



2 Main functions

a) MainActivity.java

The app starts with this activity and set content view to activity_main.xml.

```
private void initNavigationView():
```

Initialize the menu data in expandableListView and populate the expandable list. Set adapter, setOnGroupClickListener and setOnChildClickListener here.

```
private void switchFragment(Fragment targetFragment):
```

Use FragmentManager and FragmentTransaction to switch different fragment.

```
public void goBackView() goForwardView():
```

Provide an interface to child fragments call to switch views.

b) ExpandableListAdapter.java

This is customized list adapter extend BaseExpandableListAdapter, we define different function to get child view or group view data here, like :

```
public long getChildId(int groupPosition, int childPosition)
public View getChildView(int groupPosition, final int childPosition,
                        boolean isLastChild, View convertView, ViewGroup parent)
public int getChildrenCount(int groupPosition)
public MenuModel getGroup(int groupPosition)
...
```

c) FragmentHome.java

This is the fragment of homepage implements AppBarLayout.

```
private void initToolbar(View view) & initAppBarLayout(View view):
```

Bind the toggle icon animation with drawer, add drawer listener. And set appbar offsetChangedListener to change alphaScale according to offset height.

```
private void initConvenientBanner(View view):
```

Use ConvenientBanner and LocalImageView to complete the custom rotation effect with pictures.

```
private void initTextViewClick(View view):
```

Set textView click listener to change fragment view.

d) LocalImageView.java

A custom ViewHolder implements Holder.

e) FragmentAbout.java, FragmentFaculty...FragmentSchedule.java

Different child fragment function, including setting the corresponding view, setting toolbar click listener on icon and initializing view pager with different layout xml files.

f) LoadingView.java A custom loading effect chart and some functions to set its visibility.

g) FragmentNews.java, FragmentEvents.java

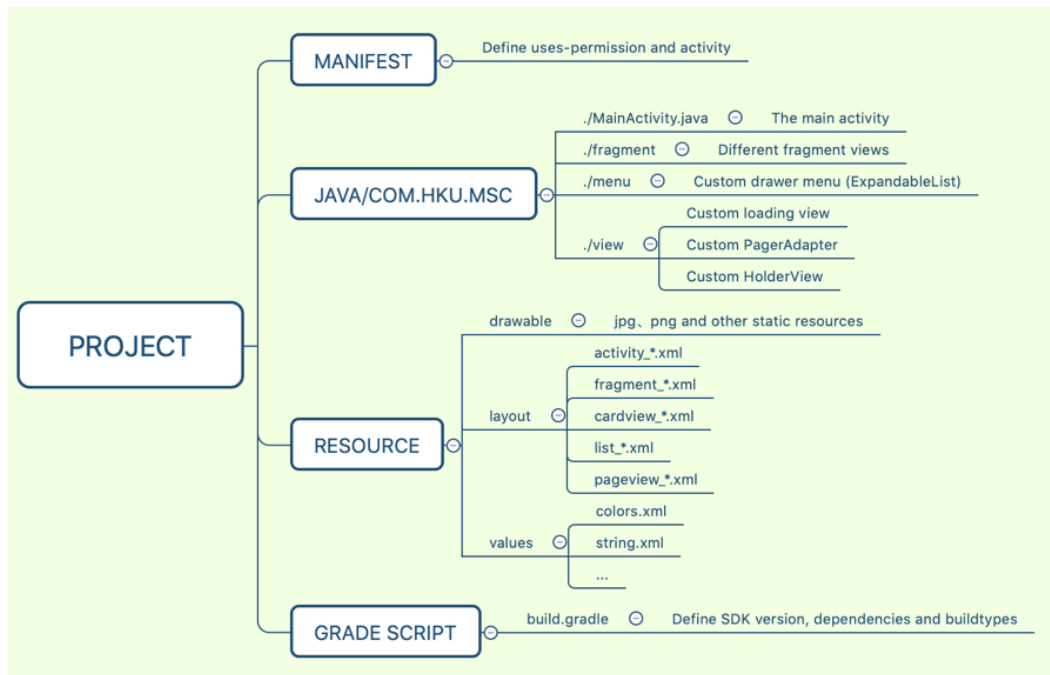
```
private void initNewThread():
```

Start new thread and use Jsoup to get information from website. Then parse HTML doc into required elements and generate different Card View.

```
getActivity().runOnUiThread(new Runnable() {}):
```

Update the application UI by using runOnUiThread(). This will magically cause the Runnable code to get executed on the Main Thread.

3 Project structure



4 Compilation and Execution process

If you want to install the app on your android devices, you need to generate the suitable apk. Just click Build > Generate Signed APK > app > Create new (sign key) > Next ... > Finish > Reveal the apk in Finder.

5 Contributions

ZHANG Kai:

WANG Dezhao:

YAN Qiangyu: