Software Development for Mobile Devices

Submission for Assignment A5.1P

What is the difference between activities and fragments?

Activities	Fragments
• Activity is an application component, in which users are able to interact with an application and also allow users to navigate with an application (Activities 2018). • Do not have onAttach() and onDetach() method. • Activity is independent. • Need to be mentioned in Manifest.	• The section of an activity which uses to create reusable user interfaces (Fragments 2018). • One Activity can have many fragments (Fragments 2018). • Fragment lifecycle has onAttach() and onDetach() method. (Fragments 2018) • Fragment depends on activity to exist. • Do not need to add to Manifest.

Describe the function of a FragmentManager and a Fragment transaction

FragmentManager

FragmentManager uses to manages Fragment and handles transactions between fragments.

FragmentTransaction

FragmentTransaction provides an APIs that to add, remove, replace fragments. Additionally, each transaction is able to be saved to a back stack which allow the user to navigate backward through the application (Fragments 2018).

Example

There are some cases that using Fragment benefits the application. For instance, we want to design UI for a tablet including multi-pane UI. One list view on the left side and one detail screen on the right side. So, in order to create a very complicated layout, we simply create two fragments for a list view and one for a detail view in the same activity.

References

Activities, viewed 23 August 2018,

<https://developer.android.com/guide/components/activities/>.

Fragments, viewed 23 August 2018,

<https://developer.android.com/guide/components/fragments>.