Software Development for Mobile Devices

# Submission for Assignment A5.1P

## What is the difference between activities and fragments?

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| 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. |

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## 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>.

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