

Mobile Application Development
In Class Assignment 5

Basic Instructions:

1. In every file submitted you MUST place the following comments:
 - a. Assignment #.
 - b. File Name.
 - c. Full name of the student.
2. Each group is required to submit the assignment on Canvas.
3. Please download the support files which include a Java project to be used for this assignment.
4. **Submit Codes:**
 - a. Zip all the project folder to be submitted on canvas.
5. Submission details:
 - a. The file name is very important and should follow the following format:
Group#_InClass05.zip
 - b. You should submit the assignment through Canvas: Submit the zip file.
6. **Failure to follow the above instructions will result in point deductions.**

In Class 05 (100 points)

In this assignment you will develop “iTune Apps” app, which enables the user to display apps from different categories. You are provided with support files that include data and classes to use for this project. The Data class that includes a dictionary of apps lists for different categories.

- You are provided with a DataServices class which you need to import in your project. The DataServices class should emulate data management functions.
- In this app you will have only one Activity and 3 fragments, all communication between fragments should be managed by the activity.

App Categories	Top Paid Apps	App Details
Welcome	App Name Artist Name Release Date	App Name Artist Name Release Date
Top Free Apps	App Name Artist Name Release Date	Genres
Top Grossing Apps	App Name Artist Name Release Date	Genre 1
Top Paid Apps	App Name Artist Name Release Date	Genre 2
New Apps We Love	App Name Artist Name Release Date	Genre 3
New Games We Love	App Name Artist Name Release Date	

(a) App Categories Fragment

(b) Apps List

(c) App Details

Figure 1, Application Wireframe

Part 1: App Categories (30 points):

This screen contains a ListView of app categories retrieved from the DataServices by calling getAppCategories method. This screen is shown in Figure 1(a). The requirements are as follows:

1. The app categories should be retrieved from DataServices by calling getAppCategories method in order to retrieve the list of categories.
2. The list of categories should be displayed using a ListView as shown in Figure 1(a).
3. If the user clicks on a category list item:
 - a. Replace the current fragment with the App List Fragment, pass the selected app category to the App List Fragment.
 - b. Push the current fragment on the back stack.

Part 2: Apps List (50 points):

This screen contains a ListView of apps based on the selected category in the App Categories Fragment as shown in Figure 1(b). The requirements are as follows:

1. The category is passed from the App Categories Fragment should be retrieved, the activity title should be set to the selected category name.
2. The list of apps corresponding to this category should be retrieved from the DataServices class by calling getAppByCategory method. The list should be used to populate the ListView as shown in Figure 1(b). Each list item shows the app name, artist name, and release date.
3. If the user clicks on an App list item:
 - a. Replace the current fragment with the App Details, pass the selected app to the App Details Fragment.
 - b. Push the current fragment on the back stack.

Part 3: App Details (20 points):

This screen displays the app details as shown in Figure 1(c). The requirements are as follows:

1. This screen should receive the app object from the previous Apps List fragment and should show the app details as shown in Figure 1(c).
2. The app details include the app name, artist name, and release date. In addition, the app genres should be displayed in a ListView as shown in Figure 1(c).