

Homework 1: “Hello World” App

Due Friday, 1/23 @11:40am

Submission Requirement (25 points): You only need to submit your apk file (only one per person is allowed for this entire homework) via the Blackboard. To make grading convenient, you need to modify the name of the apk file and the app name using the following guideline (**notice: the apk name and the app name are different**).

- The apk file of your app is in `APP_DIR/app/build/outputs/apk/app-debug.apk`, where `APP_DIR` is where you store your entire project files. The actual name of the apk file can vary depending on how you set up your project (more specifically, the name “app” can be different).
- For the apk name, you can directly right-click the apk file and rename it using your **last name**. We will let you know if your last name is not unique in the class.
- For the app name, you need to modify it in your code. Find **string.xml** in `project/App/res/values/`; there is a line `<string name="app_name">HelloWorldApp</string>`. You can give your app name there. The app name should also include your **last name**. This assumes that `app_name` is what you used in `AndroidManifest.xml`. If you have changed `app_name` to something else there, you need to make changes accordingly.

Testing environment: see the web page

Task (75 points): Write a Hello-World app that satisfies the following requirements:

1. Change the app icon to a picture of your choice.
2. Add a `TextView` to your `Fragment`. This `TextView` should display your full name.
3. Add another `TextView`. When the phone is in the portrait mode, it shows “Hello World”. When the phone is in the landscape mode, it shows “Hello Universe”.
4. Add an `ImageView` to your `Fragment`. It displays an image of your choices. When the phone is in the landscape mode and portrait mode, the images should be different.
5. Add a `Button` to your `Fragment`. Your app does not need to do anything when the button is clicked.