

# SE 3010: Android Application Development

## Assignment: Project One

### Requirements

Create an Android application for phones and/or tablets, starting from scratch, that is of your own creative design. Demonstrate the components and features of the Android SDK by including the following in your project:

- At least two Activities (or more!), each with its own layout file.
- Intents, Extras, and Results, used to pass data and state between Activities.
- A simple data model, implemented using at least one class and appropriate data structures.
- Various types of Layouts, nested and structured appropriately to construct each of your views.
- At least one (hopefully more) of each of the following widgets: TextView, ImageView, Button (or ImageButton), and EditText.
- Listeners, to allow interactivity between your application and your users.
- At least one Toast, to communicate an alert message to your users.

Before you start writing the code for your application, it is prudent to first generate an idea for the application you want to create, and then translate your idea into a visual representation of the application by creating wireframes and mockups, either on paper or using software.

Your application should be styled (using appropriate color, drawables, layout, typography, etc.) to look professional. You will be graded based on the effort you apply to create an application that is presentable to a client or customer.

Your application should be implemented using Android Studio and the Android SDK, and following the appropriate coding and naming conventions, software design and architectural patterns, and standards and principles suggested by the Android SDK (all as discussed in class and throughout the textbook).

While working on your project, you may leverage concepts and techniques from online tutorials and other resources, but the idea that you implement should originate from your own creative process. Your idea should differ significantly from any class or textbook example.

You may submit an out-of-class project for this assignment, provided that: 1) the project is developed independently by you, within the timeframe of this current semester, and 2) the project is not submitted for credit for any other assignment, in any other course, in any past, present, or future semester. Violating one or more of these conditions constitutes cheating.

### Resources

- Refer to the [Android developer documentation](#) as needed when completing your assignment.

### Submission

1. Submit your project using Git and GitHub. Start by creating a repo for this assignment [here](#).
2. Show your completed assignment to the instructor during class or office hours to receive credit.