

Due Date – Friday, December 6, by 11:59 pm.

Submission

- (1) Zip your project folder and submit it to Canvas. The zipped file **MUST** include the entire **app** folder containing the folders and files listed below.
 - **manifests** folder containing the AndroidManifest.xml file.
 - **java** folder containing all the source files *.java.
 - **res** folder, containing the resource folders, including drawable, layout, mipmap, values, and XML files.
 - Gradle script files.
- (2) The submission button on Canvas will disappear after **December 6, 11:59 pm. This is a hard deadline.** Do not wait until the last minute to submit the project. You are responsible for ensuring the project is well-received in Canvas by the due date and time. **You get 0 points** if you do not have a submission on Canvas. **Projects sent through emails or other methods will not be accepted.**

Project Description

Develop an Android app according to the functional requirements in Project 4, excluding the export of orders.

Project Requirement

1. You **MUST** follow the Coding Standard posted on Canvas under Week #1 in the “Modules”. **You will lose points** if you are not following the rules.
2. You are required to follow the Academic Integrity Policy. See the **Additional Note #13** in the syllabus posted on Canvas. If your team uses a repository hosted on a public website, you **MUST** set the repository to private. Setting it to public is considered a violation of the academic integrity policy. The consequences of violation of the Academic Integrity Policy are: **(i) all parties involved receive 0 (zero) on the project, (ii) the violation is reported, and (iii) a record on your file of this violation.**
3. The graders will use **Pixel 3a XL API 34** as the AVD for testing your Android app.
4. You **MUST** use Toast, AlertDialog, ImageView, Spinner, and ListView, or **-5 points** for each missing.
5. You **MUST** use a RecyclerView for a list of pizzas combining Chicago and NYC style specialty pizzas and build-your-own pizzas or use a RecyclerView for a list of topping options; **-10 points** if you don't use a RecyclerView. Each option in the RecyclerView must include an image associated with the option, or **-5 points**.
6. Use **at least 2 Android Activities** (2 screens) and their associated layout files (*.xml), or you will **lose 10 points**. The 10-point penalty doesn't apply if you use Fragments with a single Activity.
7. Define a Java class that implements the “**Singleton**” design pattern for sharing the global data between different Activities, or you will **lose 5 points**.
8. Remove ALL “hardcoded text” warnings by defining names for string literals in the **values/string.xml**. **-1 point** for each violation, with a **maximum of 5 points off**.
9. You **MUST** define the launcher icon in res/mipmap for your app or **-5 points**.
10. **Functional Testing.** Test documents and JUnit tests are NOT required. However, you are responsible for thoroughly testing your app and ensuring your app meets the functional requirements specified in Project 4. You will **lose 5 points** for each functional requirement not met.
11. Your software must always run in a sane state and **should not crash in any circumstances**. You must catch all exceptions. Your app shall continue to run until the user stops the program execution or closes the window. You will **lose 2 points** for each exception not caught OR for each faulty behavior.