

Advanced MAD Final

Instructions:

You have an entire class period to develop the following Android app using Android Studio. You can use any reference material you find helpful. It is suggested that you start at the first task and work down the list. The goal of this final is to test your technical proficiency so focus on getting each task working. Add additional complexity and aesthetics at the end, time permitting. I highly suggest creating multiple versions of your project (duplicate your project folder in the Finder) so you have a version saved after each task. Post your completed project to github at the end of the midterm. (You can post more than one version if an earlier version worked but you want me to see the progress you made on a later non-working version).

Note: You can't name a project "final" as that's a reserved word in Java. Please name your project with your lastname and "final" or "workouts".

Create an app based on the mock-up provided that shows different types of workouts

1. Implement a hierarchical structure of workouts 50 pts
 - a. First view: List of different workout types (at least 2)
 - b. Second view: For each workout type have a list of sports (at least 2)
2. Store the workout data in a separate class in an array and use an array adapter 10 pts
3. Ability to add sports (second view) 20 pts
4. Ability to delete sports (second view) 10 pts
5. Make the sports persistent 20 pts
6. Add an action bar with a menu and menu item to all your views that takes the user to an activity where they can sign up for a gym class(form doesn't need to do anything). Up navigation should also be implemented. 20 pts
7. Add a detail view (third view) that loads an image or a description for the sport or workout type 20 pts
8. Implement the app using fragments 10 pts
9. Using fragments have the user interface be different on a phone vs. tablet 20 pts

Total possible points: 180