**Part 1. Implementation & Documentation**

**Design Pattern**

In our project we used a sort of Composite design pattern within our project. This is through the NFL Player Game which is a subclass of NFL Player. This provides a hierarchal structure to our app. The code for the NFL Player Game is within FFS/app/src/main/java/cm/theboyz/utils, and NFL Player is also within that file, under their own java file.

**Test Cases**

The test cases are within FFS/app/src/androidTest/java/com/theboyz/utils

**To build and use the software:**

1. Open the app software in Android Studio.
2. Build the software and open the emulator.
3. Open the app.
4. Click the register button from the home screen.
5. Formatting similar entries to the hints provided, insert your name, a valid email, and a password.
6. Confirm password and click the “register” button.
7. Login using your email you registered email and password. Click “login.”
8. Set your preferences.
9. Click “Next” button.
10. Set your scoring values for each stat, using fractions or doubles.
11. Click “Save Changes” button.
12. App will say “Welcome,” and take user to the profile page.
13. The user page shows the user’s name at the top, and below that the user’s current team. Under each individual team member’s name are average points the player has gotten per game so far.
14. Choose between the buttons offered on the profile page: View player, Add/Remove players, and Edit Profile.
15. To add or remove players:
16. You can search by a player’s name by inserting the name into the field at the top of the screen. Scrolling is supported.
17. Under the player’s name is the current points the player has received based off your scoring guidelines.
18. To remove a player already on your team, click the “remove” option next to their name.
19. To add a player to your team, click the “add” button by the player’s name.
20. Click the “Save Changes Button.” The user is directed back to the profile page.
21. To change scoring:
22. Click the “change scoring button.”
23. Reselect the fields you wish to score your team by.
24. Press the “next” button.
25. Reselect the values of the fields you’re scoring by.
26. Select “save changes.” User is redirected to the profile page.
27. To view players:
28. Click the “View Player” button next to players name.
29. The app shows the points of the player from the previous year. Scrolling is supported.
30. Click “back” to return to profile page.