

Compile/Configure/Run:

To compile my project, open Android Studio (<https://developer.android.com/sdk/installing/studio.html>), and import the project into Android Studio. Then click the compile/run button, and it will compile and run the project; either an emulator or an actual device (connected through a USB cable) may be used to run the app; I recommend a device (<http://developer.android.com/tools/device.html>) since the emulator is very slow. The device will automatically create the necessary databases when you first run the app on it.

Use:

Racket Track-It is an android app made for amateur tennis players to help them track their opponents' strengths and weaknesses. Data stored by the app includes basic information on tennis *players*, as well as any number of *reports* on each of these players. In addition to allowing you to view any particular report on a player you have entered in the past, the app calculates averages of the information entered into all reports on a certain player.

Upon opening the app, you may click on either “add a player” or “find a player”.

On the “add a player” screen, you will see a short form which asks for a tennis player's name, hometown, year of birth, gender, and dominant hand. In order to successfully submit, you must enter a nonempty first name, last name, and town, each with only alphanumeric characters (no spaces). These fields are case-insensitive. The year of birth must be a four-digit integer.

On the “find a player” screen, you may either choose to display all players, or search for any player. If you choose the latter option, the app will search for all players whose first name and last name contain the first and last names you entered (case-insensitive). After choosing a player on the following screen, you will be shown a list of all reports you have entered on the chosen player, as well as some basic information on him/her to help distinguish between players of the same name. From this screen, you may add a report, view a report, view an average of all reports, or edit the player's information. You may not edit reports on a player; if you wish to add new information about a player's tennis abilities, simply add a new report.

If you choose to add a report, you will see a screen which allows you to enter ratings on the player's overall game and their strokes. In order to maximize the value of using this app, it is recommended that the information you enter be on a relative scale (the match score field allows you to track how advanced the player is): that is, strengths of a player (for instance, court speed) should be entered as a 5/5, whereas weaknesses (for instance, aggressiveness) should be entered as a 1/5. You must choose a rating of at least 1/5 for each of the rating bars.

After submitting the ratings, you additionally have the option of entering comments about a player's strokes and a match score. If you do not wish to enter a match score, simply leave all numbers as 0; the app will not record a win or a loss. To enter a match score, enter scores for 1, 2, or 3 sets, starting with set 1. It is not necessary to enter any comments on this screen.

When you view a report on all players, you may click on any section of the screen you are shown to see comments and/or a match score pertaining to that section. When you view an average of all reports, clicking on any section of the screen will not lead you anywhere.

At any point, you may redirect back to the welcome screen, the add a player screen, or the view all players screen by choosing the appropriate option on the action bar.