

Unit Test Report
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Product: Run & Track App
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Sprint1 - Layout Design, and Button with Direction Functionality:

Check if the Layout Design show correctly and each Direction Button direct the user to correct pages.

1. Run the App in Android Studio.
2. Should be able to show the Homepage:
 - a. Should be able to show a title 'WELCOME' on the top and a logo instead of the 'O' of the title.
 - b. Should be able to show three buttons in round shape, they are 'PROFILE', 'RUN', and 'HISTORY' buttons.
 - c. Click on the 'PROFILE' button, should be able to direct the user to Profile page. *(Go to Step 3)*
 - d. Click on the 'RUN' button, should be able to direct the user to Running Mode page. *(Go to Step 4)*
 - e. Click on the 'HISTORY' button, should be able to direct the user to History page. *(Go to Step 6)*
3. Should be able to show the Profile page:
 - a. Should be able to show a title 'Account Profile' on the top
 - b. Should be able to show fourth texts, and a text line on the right-side of each text, they are 'Name', 'Age', 'Sex', and 'Weight(kg)'.
 - c. Should be able to show a button in rectangle shape, it is 'HOMEPAGE' button.
 - d. Click on the 'HOMEPAGE' button, should be able to direct the user to the Homepage. *(Go to Step 2)*
4. Should be able to show the Running Mode page:
 - a. Should be able to show two texts, they are 'Total Distance:' and 'Average Speed:'.
 - b. Should be able to show three buttons in round shape, they are 'START', 'CANCEL', and 'END' buttons.
 - c. 'START' button should be able to turn to 'PAUSE' button after the user pressed it.
 - d. 'PAUSE' button should be able to turn back to 'START' button after the user pressed it.
 - e. Click on the 'CANCEL' button, should be able to direct the user to Homepage. *(Go to Step 2)*
 - f. Click on the 'END' button, should be able to direct the user to Running Record Page. *(Go to Step 5)*
5. Should be able to show the Running Record page:
 - a. Should be able to show a title 'Running Record' on the top

- b. Should be able to show fourth texts, and a text line on the right-side of each text, they are 'Date:', 'Calories:', 'Distance(km)', and 'Time(sec)'.
 - c. Should be able to show two buttons in rectangle shape, they are 'SAVE' button and 'CANCEL'.
 - d. Click on the 'SAVE' button, should be able to direct the user to the History page. *(Go to Step 2)*
 - e. Click on the 'CANCEL' button, should be able to direct the user to the History page. *(Go to Step 2)*
- 6. Should be able to show the History page:
 - a. Should be able to show a title 'HISTORY' on the top.
 - b. Should be able to show a button in rectangle shape, it is 'HOMEPAGE' button.
 - c. Click on the 'HOMEPAGE' button, should be able to direct the user to the Homepage. *(Go to Step 2)*

Sprint2 – GPS, Distance, and Average Speed

Check if the GPS run correctly and able to track the Distance and the Average Speed of the user run.

1. Run the App in Android Studio.
2. Click the 'RUN' button in Homepage.
3. A message box should pop up and Ask "Allow RunAndTrack to access this device's location?"
4. Press 'Allow'.
5. Turn on the GPS Emulator in extended controls of Android Studio.
6. Create a GPX file in <https://mapstogpx.com/> or any website with a MAPS to GPX convertor.
7. Load the GPX file in the GPS Emulator, the GPS Emulator should able to see all the GPS data point include the Latitude and Longitude, then input the Altitude(meters) and Speed(knots) in the GPS Emulator. This step can simulate the user run/movement.
8. Click the 'START' button in Running Mode page, and click the play button in the GPS emulator, the GPS should be able to track the simulated user run/movement in the GPS emulator. As the GPS is playing in the GPS emulator, the Distance(km) and the Average Speed(m/s) show in Running Mode page should be able to counting or tracking.

$$* \text{Distance (km)} \times 1000 \div \text{Time (s)} = \text{Average Speed (m/s)}$$
9. Click the 'Pause' button in Running Mode Page, the Distance and Average Speed should be able to stop counting or tracking. *(Go to Step 10 or 11)*
10. Redo 8 to Start tracking again but this time click on 'CANCEL' button, should be able to reset the distance and average speed to 0, and direct the user to Home page.
11. Redo 8 to Start tracking again but this time click on 'End' button, should be able to reset the distance and average speed to 0, stop the GPS and direct the user to Running Record page.