



OCTOBER 19, 2015


REQUIREMENTS DOCUMENT

VERSION 1.0.0

XAVIER THOMPSON, RICHARD RUSLI, KAI LIN, ANDREW LOH

TEAM 22

Monash University



INTRODUCTION

The majority of the features included in this running application were described in the Functional Specifications Document. Some of the features we have added since the submission of that document is the “search function” when looking through the route history tab. We have also added a feature where the runs can have user-custom made names instead of automatically generated IDs.

FEATURES

TABS

Justification for inclusion

- Tabs allow the user to switch between 3 different screens that serve different purposes. (i.e. Guide, Recording page, and the History page)
- It should be included to avoid putting too much information on the same screen. This allows for a more streamlined and concise display of the very different functions each tab plays.
- This feature adds the value of categorising important information according to what the user wants to do.
- This is important, as if the user only wants to see how to use the guide, they press the “Guide” tab. If they are going out for a run, they click the “Run” tab. And if they only want to see and compare their past runs, they click on the “History” tab.

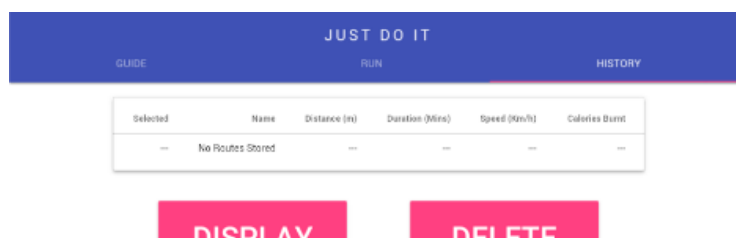
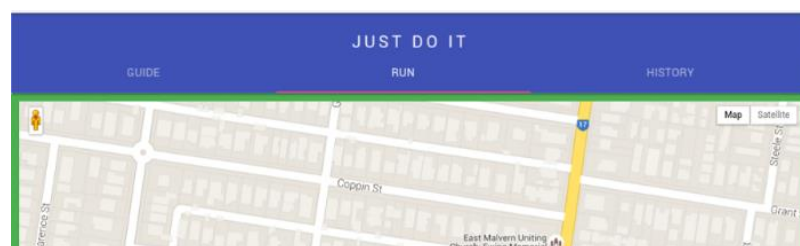
Implementation

The tabs will fit into the app, by having rectangular buttons (that look like tabs) near the top of the screen. Clicking a specific tab will load a specific screen below the tabs. E.g. clicking the “Run” tab will load the “Run” screen and access the code that relates to that page’s functions.

Screenshots



This application will help you records all your running activities, it will locate your place and show it on the map. It will give you a polylines from starting point to the end point



START/STOP RECORDING (+VISUAL MAP UPDATES)

Justification for inclusion

- This feature allows users to start and stop the recording of the route taken.
- It should be included so that the users can record the route they have taken and stop the recording when they have finished their running session.
- This adds value to the app as this is the main feature; allowing users to see their route on a map and are able to access other/more detailed information about their run e.g average speed.
- The feature is important to give the users an idea of their running route, and to provide calculations useful to improving the user's fitness. e.g. distance recorded in a certain amount of time can give a benchmark to the user on improving their timing/running speed.

Implementation

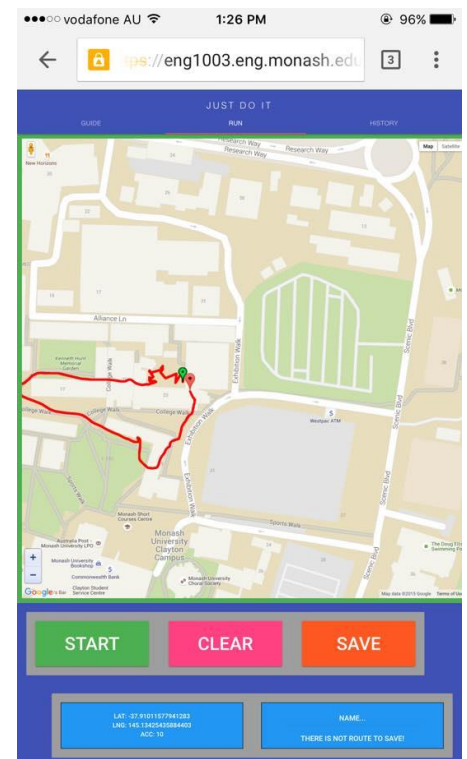
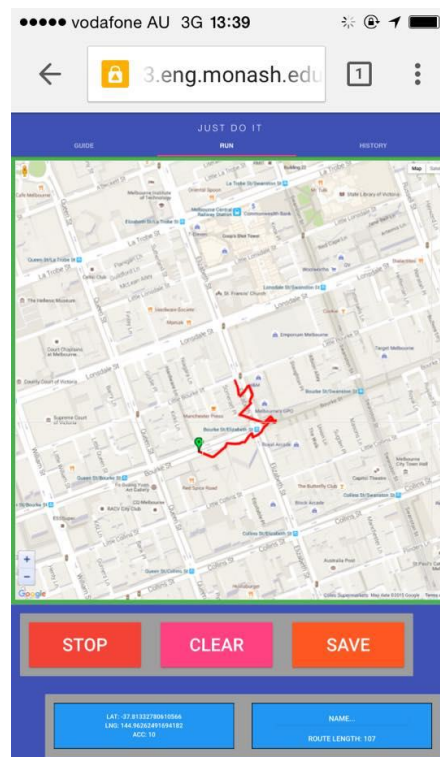
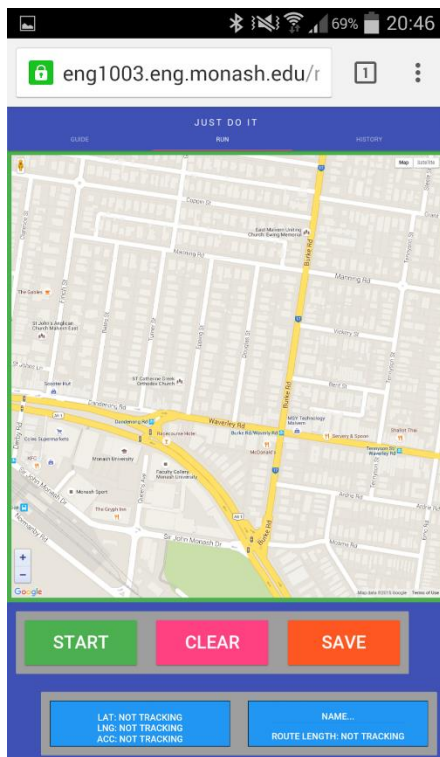
This feature fits into the implemented Google Map that is in the “Run” page (for the route tracking). The Start/Stop button is located underneath the map.

Clicking the start button will enable the location tracker on the mobile device. This creates a start label on the map, and the map periodically checks where you are at a certain moment, and dynamically draws a route connecting those “check-ups”.

Once the stop button is pressed, the stop label is placed at that point in the map, and there are no more periodic “check-ups”.

The user can then choose to save or clear the current data that was just recorded.

Screenshots



CLEAR/SAVE RUN

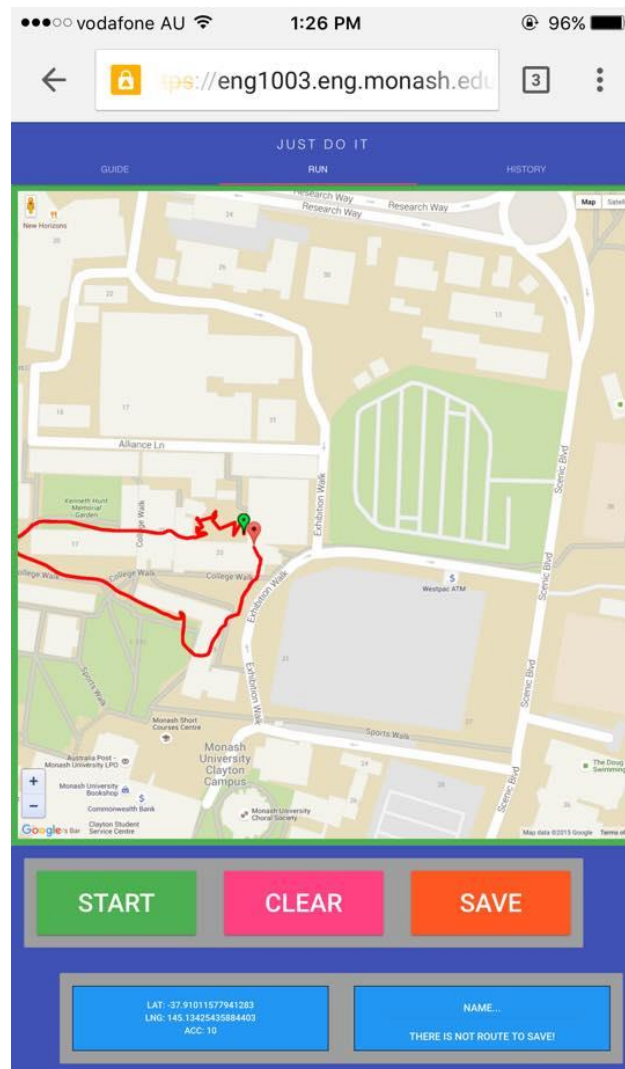
Justification for inclusion

- This feature allows users to (after a run), delete or save their data.
- It should be included so that users are able to add runs to their history for later reference.
- The feature allows for comparison of past runs and gives an indication to the user's how they are improving.
- The feature is important because if the user makes a mistake on the route they took, or pressed the start/stop button at the wrong time, they would not want to save that run. Being able to "clear" the data is essential. Also, if the user wants to keep the data for future reference, the "save" function is essential.

Implementation

The clear and save buttons will fit underneath the Google Map, next to the start button on the "Run" page. Once the data is collected from the run (when the user presses the stop button), the user has the option to clear the data or save it. If the user presses clear, the current data will be erased and the user will be able to press the start button again to start a new run. If the user presses save, they have the option to save the current data under a name (using the text box below). Once the data is saved, the user is able to access that old data using the history page.

Screenshots



HISTORY (VIEW PAGE)

Justification for inclusion

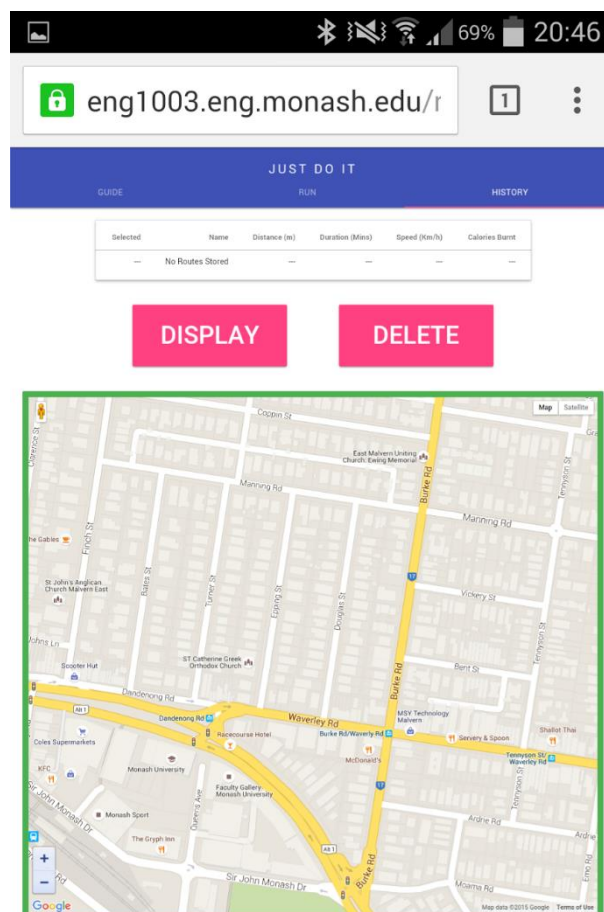
- This feature allows users to go through their past records and select specific runs to access more details.
- It should be included as without it, the users will not be able to access their saved runs, and thus will not be able to find any change in their improvement levels or different routes they took.
- It adds value by keeping the users on track with their progress of running better.
- It is important to the role of the application, for example, the user always runs the same route every day. They save their runs. If they access the view page (history tab), they will be able to see how much they have improved (i.e. overall time, average speed...) over the time period they started running.

Implementation

This feature will fit into the History tab of the app. The functions and information will be shown below the tabs. The user can see and select their saved runs and choose to “display” or “delete”. If the user chooses display, the saved route will appear on the map below.

If the user chooses delete, that saved data will be removed from memory.

Screenshots



LOG IN SCREEN

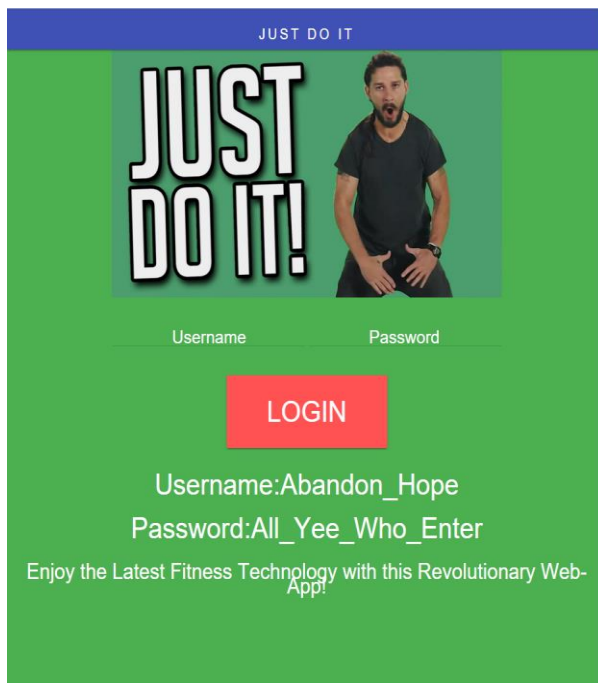
Justification for inclusion

Added to put a layer of security over the application, so only the real user is able to access the run data.

Implementation

This feature will be a page that leads to the user being able to access the 3 tabs and their features. If the user enters the correct username and password, they will be directed to the 3 tabs. If the user enters an invalid username/password, an error message will show and the user will have to try again before being able to access the next page.

Screenshots



CALORIES CALCULATOR

Justification for inclusion

Gives the user an extra indication of their progress and aids in their calorie counting (i.e. counting calories in and calories out)

Implementation

This statistic will fit under the History tab, in the same table where the saved runs are. The displayed number is derived from the data collected.

Screenshots

