

Trekker Beta Release Product Documentation

01 March 2021

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Introduction

Since the introduction of lockdown measures due to Covid-19, many people are finding themselves spending more time than normal inside. There is a bigger interest in making up for any lost movement through exercising at home or within a certain distance from it; anything to break up the hours in a day.

We all know a brisk walk (in the form of exercise not as a means to get from point A to point B) is healthy. It has been proven more than once that walking improves not only physical but mental health as well. However, taking the same route day in and day out soon turns into a chore within itself; becoming yet another thing we need to complete instead of keeping that explorative nature that it originally began with.

Our team identified a possible market of mobile users who are stuck in the same monotonous routine whenever they do decide to venture outside. Creating a mobile application that encourages that exploratory spirit would reap only benefits for everyone involved.

Circling back to current world events, we decided that tackling the subject in a way that was topical would provide great experience for the team. Since the idea was born out of everyone being in similar circumstances, we wanted to integrate a real life problem into our project - and then to solve it.



Overview

Our trekking application intends to use the readily available Google Maps API to create and track unique routes, allowing users to have a new experience every time they venture outside.

Users can avail of features such as filters that allow them to set the maximum or minimum distance of a route. Adhering to Covid-19 guidelines in urban areas or going for a longer hike in rural areas; the personalisation is up to the user.

Unlike other applications on the market that seem to target only known hiking trails, our application's main benefit is in combining both rural and urban landscapes. Minimising the need for major travel and creating something available to all without limiting features based on someone's location was a major focus for our group.

Our application and this product document is intended for the general consumer user class; no maintenance of the system being required apart from the odd update



Installation

The installation process is similar to that of any other application. The user needs to own an android phone. Since our beta release is not available on Google Play Store, Play Protect will complain about having an unknown source.

1. Download the APK file
2. If prompted, allow for the installation of applications from unknown sources. Click “Allow from this source” and “Install Anyway ”
3. Wait for the installation to finish
4. Open the application

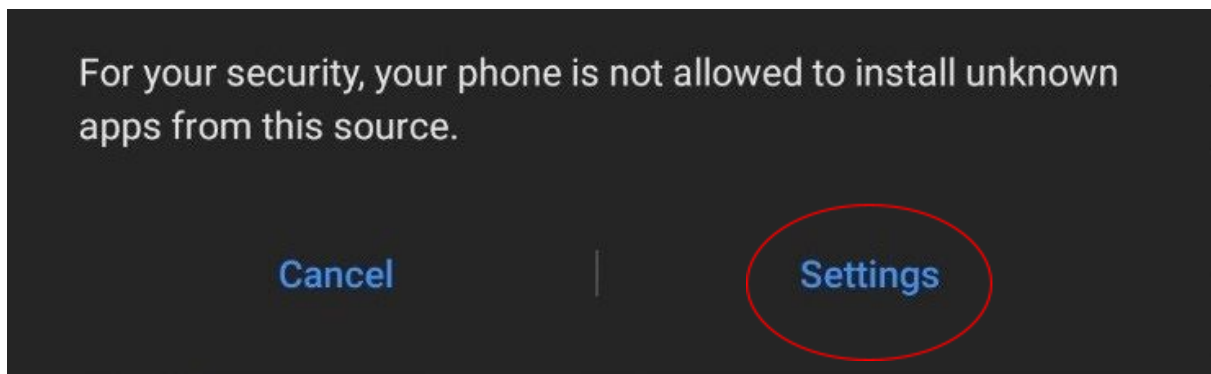
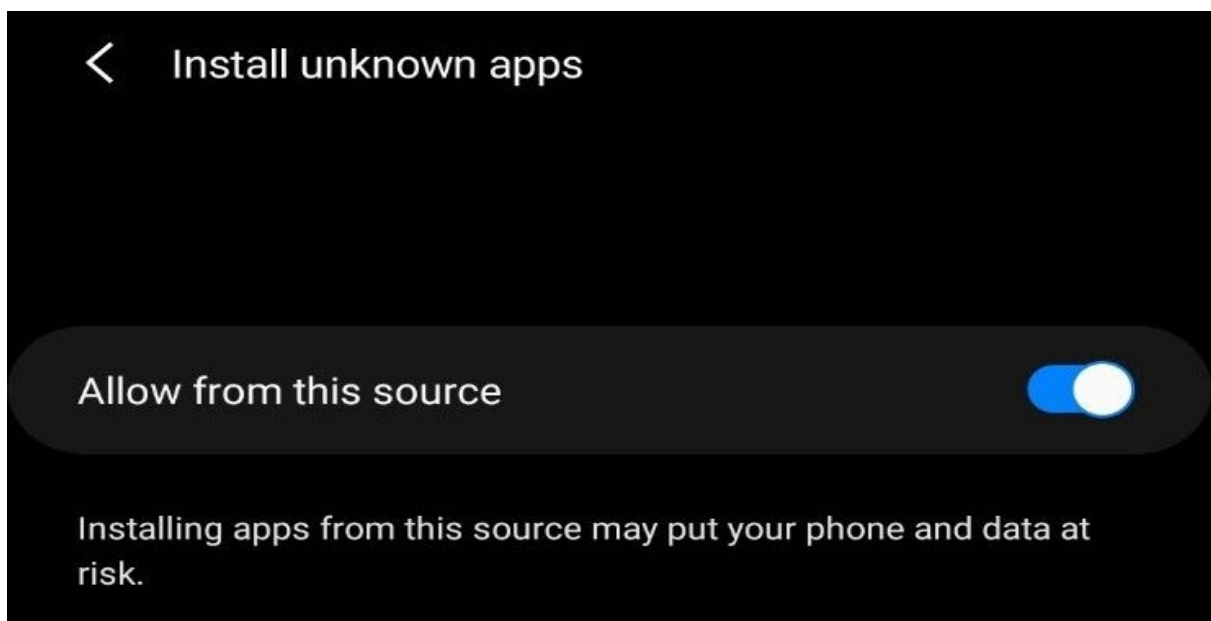


Fig 1 & 2: Allowing an install from unknown source





Installation Continued

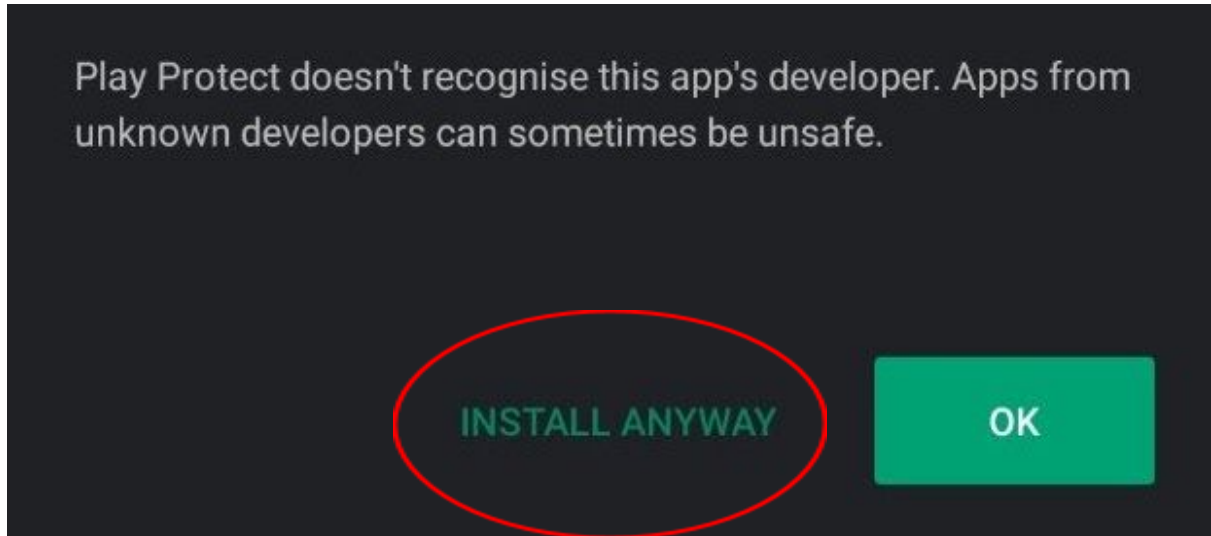


Fig 3: Bypassing the Play Protect false alarm

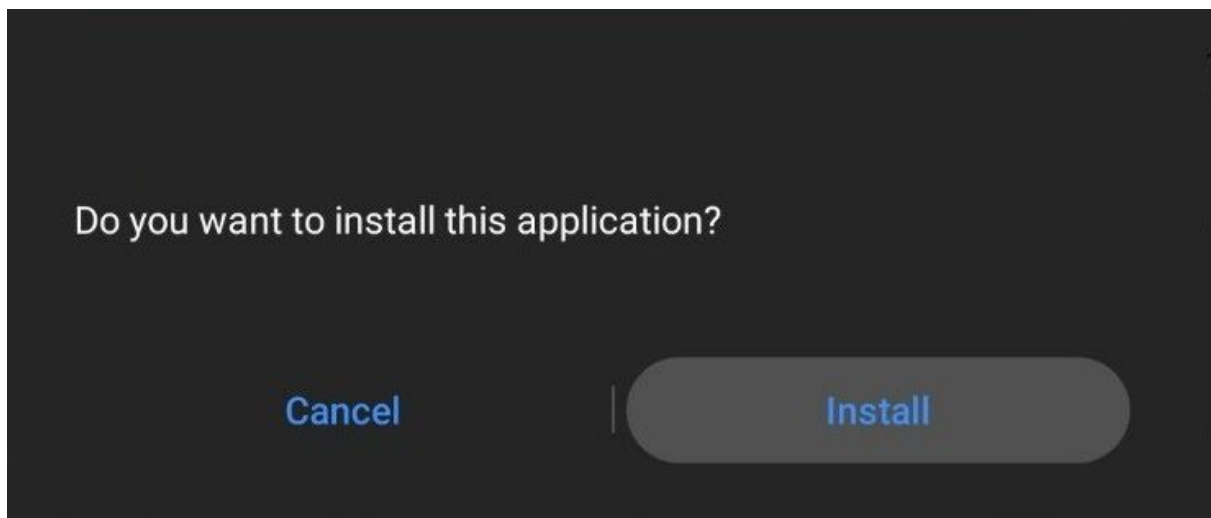


Fig 4: Reaching the installation button



Features

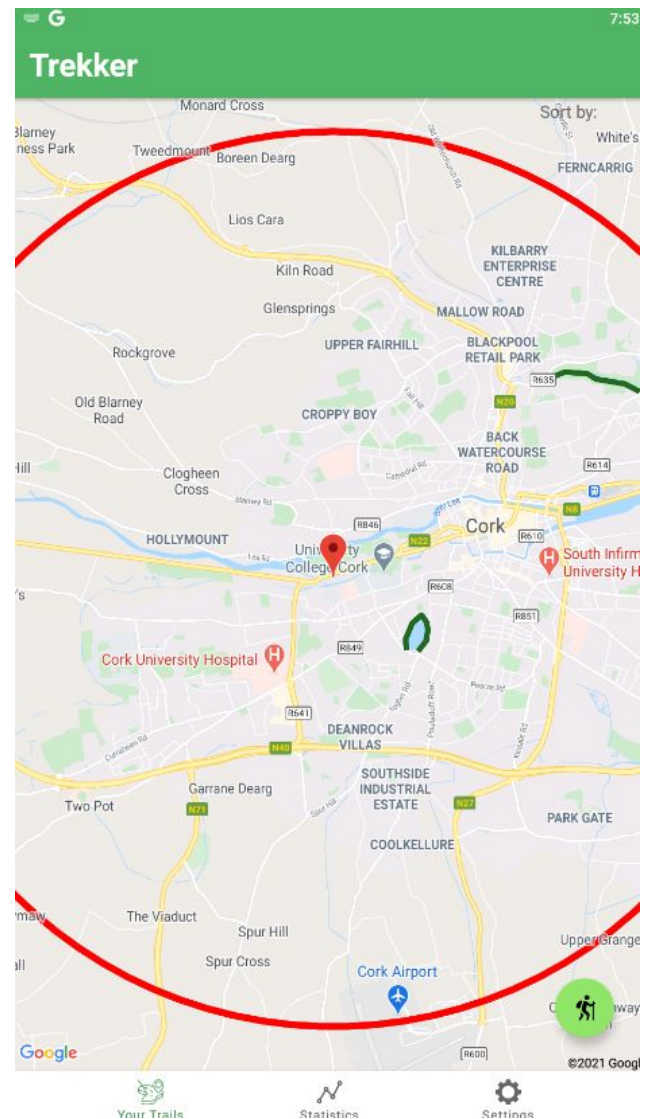
Personalisation

There are multiple options to configure the application to more suit the current user and to provide a more personalised experience while giving the user more control over how they wish to decide to use the application and its available trail features.

While the current features available are cosmetic in nature so far (for example, the name feature being used as a way to refer to the user), we plan to integrate them together in the future.

Tracking Trail Location

The user's location within the distance of available trails is tracked. This feature works if the user allows our application access to location permissions.





Tracking User Statistics

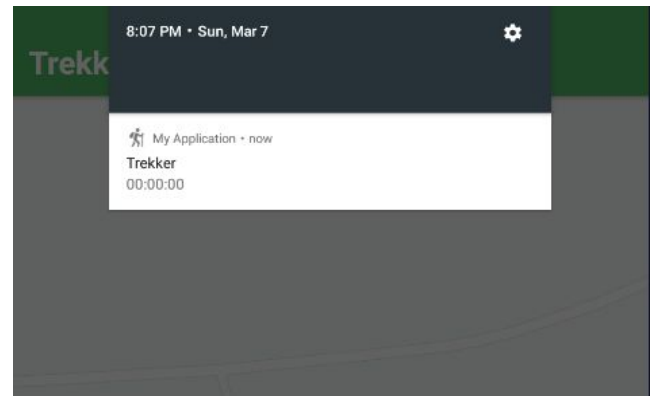
Since a big part of “lifestyle” applications rely on the novelty and curiosity of being able to see generated data about yourself, this prompted the addition of statistics. This feature works if the user allows our application access to physical activity permissions.

Notifications

To better integrate some previously mentioned features like statistics or weather “widget”, the application will regularly update the user through the use of notifications if enabled to do so.

These notifications will include weather updates and weekly styled user reports gathered from the statistics.

This feature works if the user allows our application access to notification permissions. These notifications can also be found in the dedicated notifications menu item.





Interfaces

Welcome Screen

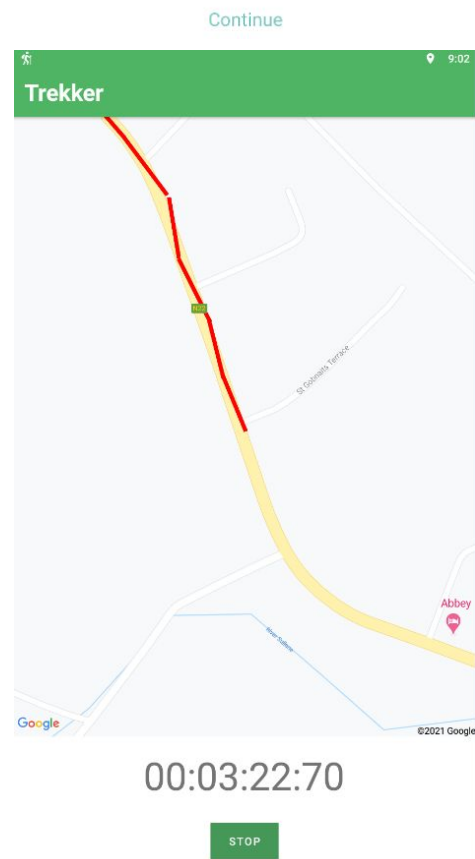
When starting the application for the first time, the user will be met with a welcome screen asking for their name. Upon entering the name in the text box provided and clicking continue, the user will be brought to the main application interface. It is possible to also continue without a name if one wishes.

Your Trails

The main application interface is titled “Your Trails”, which is the first clickable menu item in the bottom navigation bar of, at this current time, three. It consists of a scrollable Google Maps view, with the ability to create a trail in the bottom right of the screen, circular button.

Creating a Trail

When the user clicks the trail button, the user will be prompted to pick any trail of choice shown through the location feature. Once the user picks a trail, clicking start will start the timer and allow the user to journey on the trail.





Statistics

The second menu item in the navigation bar is the user “Statistics” menu. The user is able to view their statistics; at this current time only being steps taken, distance travelled, trails completed, and hydration levels. Apart from the hydration level which the user can manually insert the amount of water drank, the other statistics at this current time are viewable only.

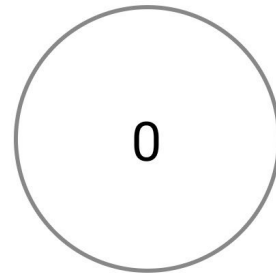
Settings

The third menu item in the navigation bar is the “Settings” menu. The user is able to choose between a preferred system of measurement and the ability to turn notifications on and off. Clicking the setting of choice should produce the expected result.

General Navigation

This is an android mobile application, therefore the navigation shall only consist of tap and scroll functions. Apart from granting permissions, there is nothing extra the user needs to concern about.

Trekker



TOGGLE NOTIFICATIONS

CONVERT UNITS FROM METRIC TO
IMPERIAL



Your Trails



Statistics



Settings



Tutorials

Starting a Custom Trail

- From anywhere in the application interface, navigate to the “Your Trails” menu. This is the default starting menu with a map icon.
- Click on the start trail button, containing a hiker icon.
- Pick the preferred trail and click the start button.

Cancelling a Custom Trail

- A trail is finished upon completion of the tracked trail.

or

- To finish early, click the “cancel” button located on the trail map.

Resume or Pause a Trail

- From the trails interface the user can pause or resume a trail.

or

- From the notifications bar the user can pause or resume a trail.

Changing the Settings

- From anywhere in the application interface, navigate to the “Settings” menu.
- Choose and click on whichever setting to alter.
- Save the changes.



Known Bugs

- Timer notification gets stuck for an indefinite period of time
- You can bypass setup screen without inputting a name
- The set up screen relauches asking for a name every time
- Unable to finish a custom trail
- Not enable to disable notifications
- Not able to convert units from imperial to metric
- Location when making a custom trail sometimes does not update when phone is locked
- Bar chart in statistics works intermittently