Deployment Document
Travel Safe Android App

The Travel safe 1.0 application is written to be compatible with the standard android operating system(or its brache system) that supports Version 3.0.0 beta of the Google Maps SDK. It is now distributed via a standalone static library that was previously available as part of the Google Play services. However, the app still requires the device has access over Google play services in order to run the application successfully. Therefore, Android 4.0 - 4.0.4 is no longer supported.

1.0 Overview

For deployment purposes, the deliverables for the Travel safe app consists of two folders of files.

The first folder is called data which consists of a couple csv files. The csv files provide the data about the disasters that happened in the USA which serve as a static database for our app.

The second folder src, includes all the source files that are written in java for our application along with the gradle file and xml files.

2.0 Installation and Configuration of the application

The application can be easily installed in both virtual and physical android devices through android studio. Here we only introduce the installation for physical devices due to practical purposes:

1. **Plug-in your Android Device to Computer via USB**
2. **Open the "Settings" App on the Device**
3. **Scroll down to bottom to find "About phone" item**
4. **Scroll down to bottom to find "Build number" section**
5. **Tap on "Build Number" 7 times in quick succession**
6. **You should see the message "You are now a developer!"**
7. **Go back to main "Settings" page**
8. **Scroll down bottom to find "Developer options" item**
9. **Turn on "USB Debugging" switch and hit "OK"**
10. **Dialog appears "Allow USB Debugging?"**
11. **Check "Always allow from this computer" and then hit "OK"**
12. **Import the entire project into android studio**
13. **Once the device is discovered by android studio, click "Run" button on the top left of the task bar.**
14. **Make sure you are choosing the connected physical device when running.**

15. **An installation page will appear on your physical device and please follow the guidelines to finish the installation.**

3.0 How to Use the app

The application is now ready after you finish the installation process. Make sure you are connected to the internet and you are in a region where Google play services are available before running the app.

Once it is all set up, the app will direct you into the main page of Travel safe and a pop up message will notify you whether connection is successful or not. The main page consists of a title and three search buttons that allows the user to search by time and location, find the best time for travelling to a particular location and find the safest path. It is up to the user to decide which one they want to prioritize and they can simply tap it to start the search. Once the required information is entered, a path will be shown on the screen along with some icons that indicates the type of disasters may happen in the way. And the user can thus use the visualized result as a guideline to choose the routes for their trip