

# Android Project Brief Description

## Easy Trip Planner

Android Mobile Application that helps the user to record his planned trips with the start and end Geo-points, accompanied with the date and time of the trip and notes. The application should remind the user with his trips on the time specified by the user. In addition, the application should navigate the user to his destination. After that, the application should keep track with the upcoming and past trips.

### Project Features:

1. **Flexible Scheduling:** This application helps the user to save, update delete Trips: (add button)

- Name of the Trip (ex: Work, School, My Aunt ... etc.) Autocomplete edit text for start point.
- Auto-complete edit text for end point.(Hint: [Google Place API – Place auto complete](#))
- The Date/time of the trip: Date, Time, (Bonus: repetition) (daily/weekly/monthly schedule, every X days/weeks, only on certain days of the week) (Hint: [SQLite database, ListView, and ArrayAdapter, or RecyclerView with CardView](#)).
- Notes: The user can add some notes to such trip (List or Check List or any more suitable presentation)
- Trip Type: One Direction or Round Trip

2. **Reminder:** This application reminds the user with the trip at the time he has previously scheduled

The user should be notified by Dialog/Headless Activity that will be launched at the time of the trip with a sound of alarm. (Hint: [AlarmManager or Calendar item](#))  
Such dialog or activity should contain

- The Trip Name
- start button, later button, and Cancel Button

- The Start button should open Google Maps for routing from the start point to the end point. (Hint: use intent to launch Google maps).
- The Later button should finish the dialog and adds notification that shows the Dialog/Headless Activity again when it is pressed.
- The Notes (suggest good user experience to remind the user with these notes)

### 3. Home Screen

- Home screen should contain a list of all of the upcoming trips.
- In this screen user can **start**, view, edit or delete trip from the list (upon deletion a confirmation dialog should appear to user).
- Sync Button – that lets the user synchronize his data with the backend server. (Firebase)

### 4. Show Past Trips

- Displays the Past Trips
- In this screen the user can delete a trip from the list (upon deletion a confirmation dialog should appear to user)
- (Bonus: Report about the trips numbers per duration or distance per duration)
- (Bonus: Duration)
- (Bonus: Average Speed)
- Show the trips history drawn on a map with different colors corresponding to trips

### 5. Show Trip Details

- Show The Trip Name
- Start point
- End point
- Notes
- Date/Time
- The status of the trip (Upcoming, Done, Cancelled)
- Start Trip Button
- Done Checkbox
- Edit Button
- Implement the round trip from your point of view to enable the user to return from a done trip – to reverse the direction of the trip.

### 6. Simple Login and Registration Screen

- Provide simple login and sign up and Any of the social networking authentication (facebook, google, twitter)

- To facilitate letting the registered user gets his archived data from the server. Once successful login he doesn't need to login again.  
(Hint: [Local SharedPreferences](#)) ([Firebase](#))
- After that, if the user is existing and has trip history (passed or planned) load it from the server to store it locally on the mobile and populate the trips lists with this

## Timing:

### 1.Milestone Delivery Date:

The 1st of October 2021

### 2. Project Delivery Date:

The 8<sup>th</sup> of October 2021

## Project Delivery Method:

Send the **Delivery Package** in a compressed folder in an email to Bsaleh103@gmail.com with subject: Summer\_Kafrelsheikh\_Android\_Project-Team#  
i.e., Summer\_ Kafrelsheikh \_Android\_Project -Team3

## Delivery Package:

- a. The Android project folder (compressed)  
**From the Android Studio: File menu-> Export to Zip File...**
- b. The APK file
- c. Read Me file:
  - i. The Android SDK Version
  - ii. The project members names with the corresponding tasks.

*Feel free to contact me through*

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