

# Group Drive

מס' פרויקט: 220304  
שם הסדנה: יזמות בפיתוח מוצרי תוכנה  
שמות הסטודנטים: ליאור נוי, אופיר לוי  
שם המנחה: מר מרגלית דרור



**GroupDrive**

Trip together - Trip forever

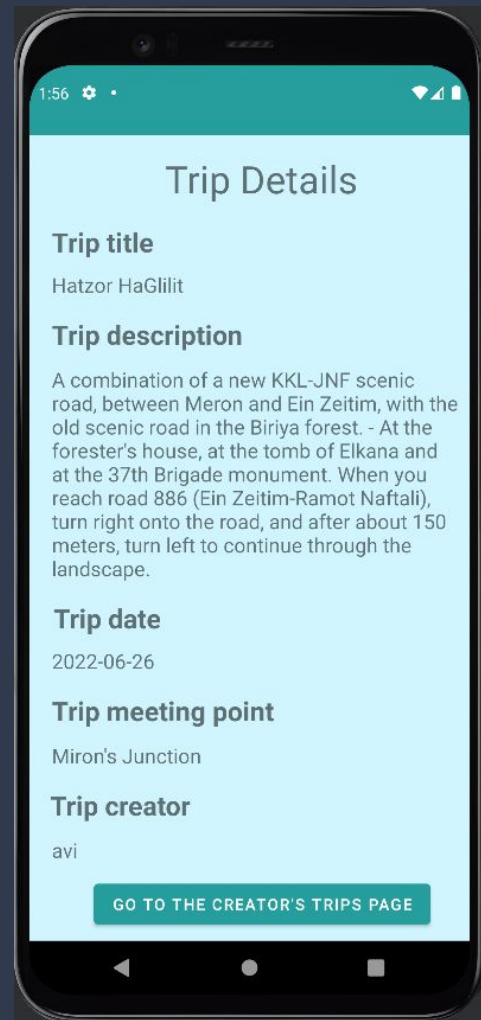
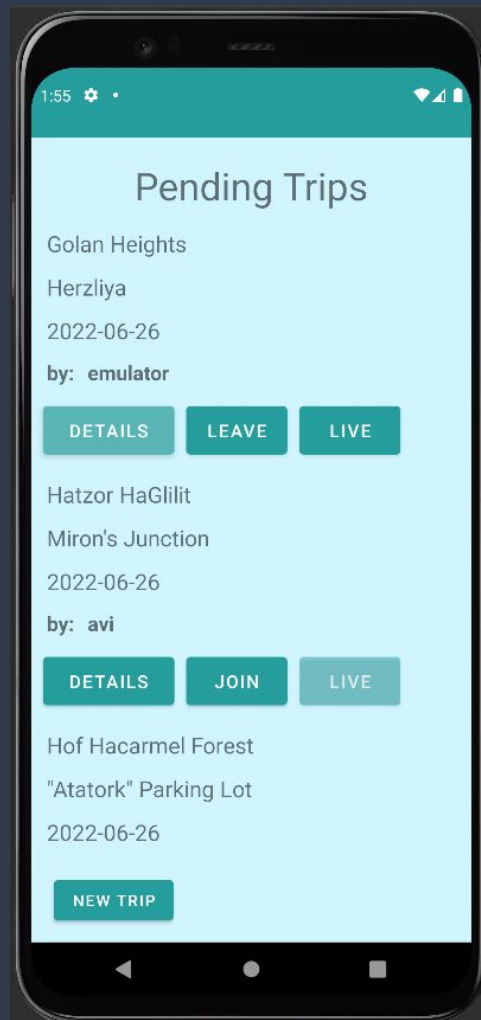
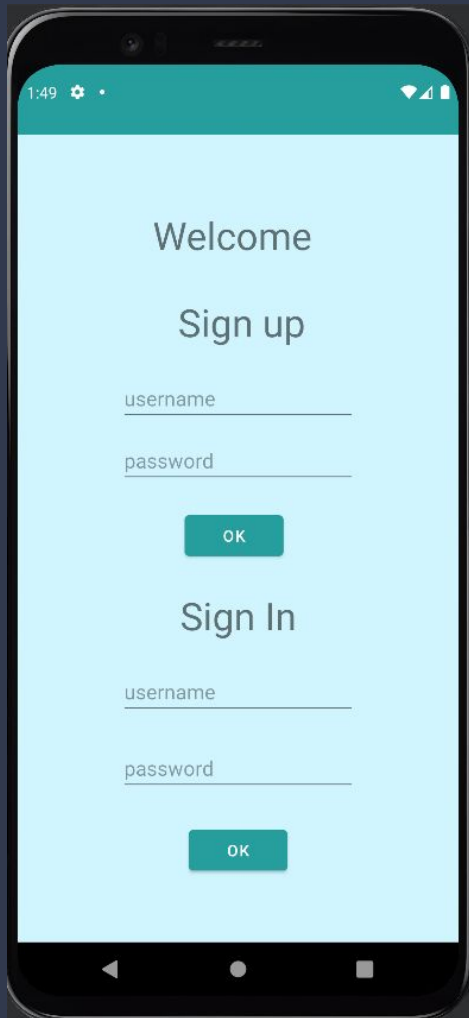
# הפתרון בכלליות Concept

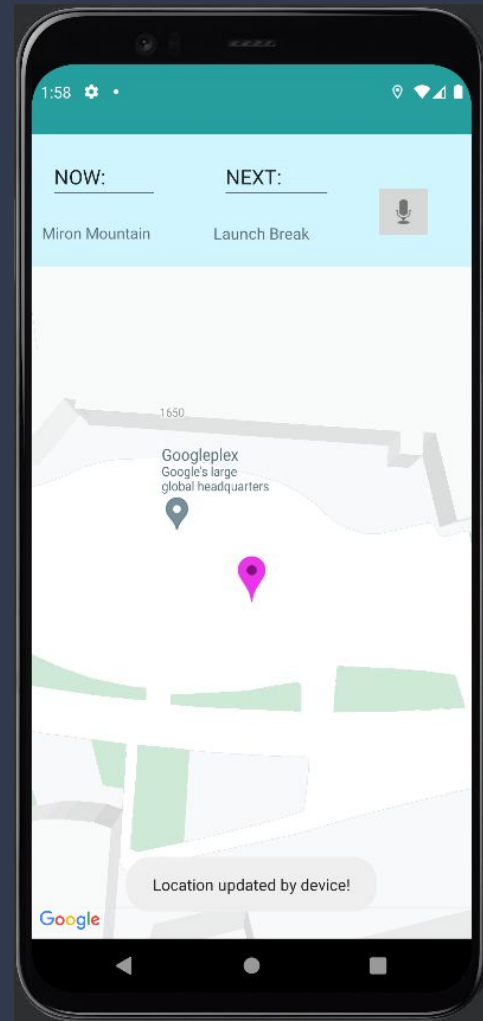
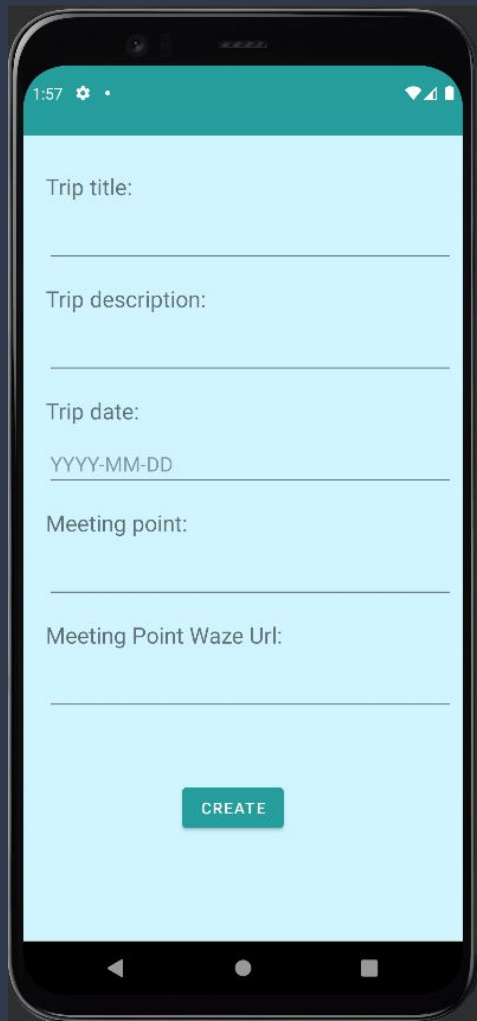
Group Drive is a mobile app that provides tools for creating, planning, managing and participating in roadtrips & joined drives.

The app is a place where trip guides can publish their trips, and enthusiastic travelers can browse and join trips they like.

Including a **Live** trip feature with live map tracking, updates, and communication between the participants.







# Technical stack

## FrontEnd

Language: Java



Framework: Android Studio



HTTP Client: Retrofit

## BackEnd

Language: Python



HTTP Server: Flask

Database: MongoDB



## Deployment

Docker, docker-compose



# Data Models

## **User:**

id - int  
username - string  
password - string

## **Trip:**

id - int  
title - string  
creator - string  
meetingPoint - string  
meetingPointWazeUrl - string  
description - string  
participants - users list  
date - date type  
isTripToday - boolean

## **UserLiveGPSCoordinates**

userID - int  
tripID - int  
longitude - float  
latitude - float

# Use cases

## Users:

- Sign in.
- Sign up.

## Traveler\participant:

- View published trips
- View trips from a specific guide.
- View trip details.
- Register to a trip.
- live-trip: View participants locations on map.
- Request to register to a trip.
- Set & filter by preferences tags.

## Trip guide\manager:

- Create a trip.
- Delete a trip.
- live-trip: view all participants locations.
- Handle join trip requests.
- live-trip: Send broadcast message to participants.

# Market

“Group Drive” currently has no direct competition in the market. However, there are some apps that offer some partially overlapping services or functionality, for instance:

- Google Maps: Enables live location sharing between multiple users on the map.
- Glympse: Also provides live group location sharing - Mostly intended for finding friends, tracking family members and showing ETA's.