Give and Take
Social application
Group ID: 40

• Project goals –

As a student in Ariel University, I can say that most people here are very helpful and friendly.

Students in Ariel University can help each other In many ways, contributing with their resources, may it be a math book they can donate to peer that needs it to an upcoming test, share some cookies with a hungry student in their lecture's building or organize a study-club for a presentation their class have.

This project's goal is to provide a platform for students to ask for help and offer it, based on location, to see who they can help close by, visualized with a map, so that they can help each other conveniently.

• Project scope –

The app provides 3 main services:
1. Map service to watch existing requests based on location.
2. Create request service that adds it to map with a marker and stores it in databases.
3. Joining existing requests so request's creator will see, to offer help/ join event.

• High-level features and requirements-

Essential:

1. The system displays a map, by interacting with a map service
2. The application allows saving information of requests and events in the database
3. The system allows users to create requests
4. The application displays real convenient and clear to the user. It will be easy to distinguish the different actions
5. The app enables communication between the users of the application so that they can answer requests
6. The system allows user registration and login according to verified details, which will be saved in the system
7. Managing the requests and viewing them on the map is reliable, all users at the same time will see the same map
8. The requests appears in the form of dedicated icons on the map that are visible to all users.

Desirable:

9. The app allows an admin user to block users
10. The administrator is given the option to add an event with a special icon
11. A user is able to delete his request from the map
12. The app enables users to report other users
13. The system requires a university email to register users
14. Admins are able to remove user posts
15. The application displays a notification on the phone about a new request or event (according to the user's preferences).

Major milestones and deliverables:

1. Integrate with Google Maps service
2. Figure out how to manage markers on map service
3. Integrate with Firebase's database services to store data
4. Integrate with Firebase's database services to authenticate users
5. Integrate with android's GPS sensor
6. Create and use a notification service and channel

An elevator statement:

For Ariel university students and staff that are smartphone users, who want to ask for help or give help to their peers:

the Give and Take Android application is a sharing social application that allows users to open and maintain requests, watch open requests of others, and to communicate to offer their help, with an option of filtering based on location, visualization and placing requests on a map, to see for instance who's nearby.

Unlike traditional social/map apps sites such as WhatsApp or Google Maps, our product allows users to manage the requests on a targeted system to Ariel students only, enabling wide distribution and location filtering by combining requests management and a map.