GIVE AND TAKE INFORMATION SYSTEM POSTER Group ID: 40

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INTRODUCTION

Requests and events often depend on location, for example seeking a partner in the university library solving to solve a math task, to study to sociology test or to seek volunteers for helping elderly near the campus. There's a need to conveniently filter opportunities by location.

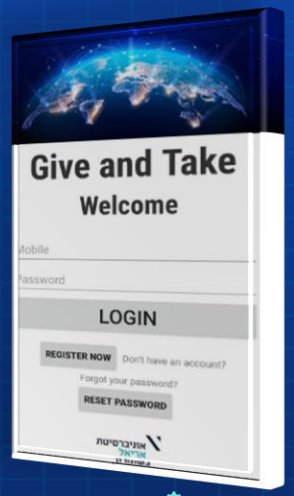
PROJECT GOAL

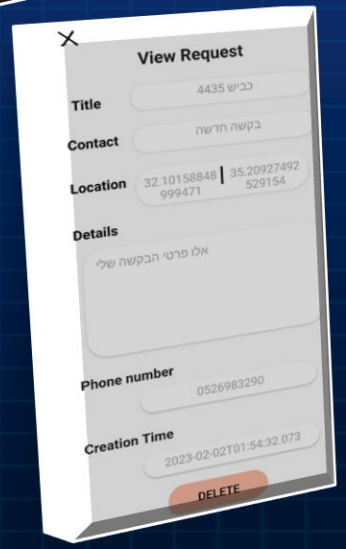
To supply a sharing social platform for Ariel University students/staff to connect better, to "give and take" help and post events, easily based on location.

CONSIDERATIONS
THE SYSTEM NEEDS...

- requests to be browsed and stored real time
- location visualized
- to be kept an exclusive, safe place
- Users allowed to communicate
- Admin users managing the app

IMAGES
IN-APP





METHODOLOGY

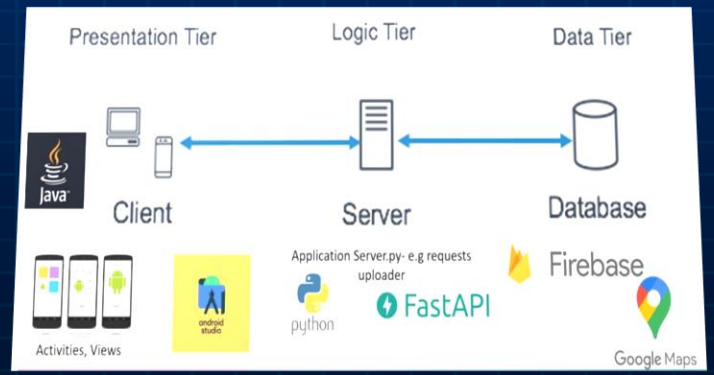
Combining the power of a map service using Google Maps, with data storing using Firebase Real Time database, to create a system dedicated for Ariel University students and staff, where they can place events on a shared map

METHODS

- Java Android components
- HTML, CSS for Client UI
- Cloud Database
- Python server API
- Map service integration
- GPS sensor activation

MODULATION

Using MVC Pattern for Android developing and 3-Tier Architecture:



FUNCTIONALITIES
THIS PLATORM PROVIDES...

- users to create requests and manage their own
- user registration and login with stored details
- a reliable, live and interactive map shared by users
- communication between the users
- requests display by dedicated icons on map
- "Locate me" option on map
- notification of a new request or event according to the user's preferences, on a chosen radius of live or pre-determined location

ADMIN PRIVILLIAGES:

- block users and delete requests
- add an event with a special icon
- watch users list & users requests list

SECURITY & SAFETY:

- two-factor authentication
- Requires university email verification to register users
- Requires phone number verification by SMS code
- Enables users to report requests

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GitHub repo QR: