

Objective and Significance

There are many different types of people who like different types of travels.

Some of them like hiking, cycling, backpacking, reclining, etc.

One of the major problems that prevent people from going on a trip is their lack of knowledge about where they are going. For instance, is the place handicapped accessible? What type of vehicle is suitable? And are there toilets? and more.

The purpose of our app is to solve this problem and thus encourage more people to go out and travel.

Our application is easy to use and does not require much effort to enter data into it. The application reflects the nature of the place in an understandable and convenient way.

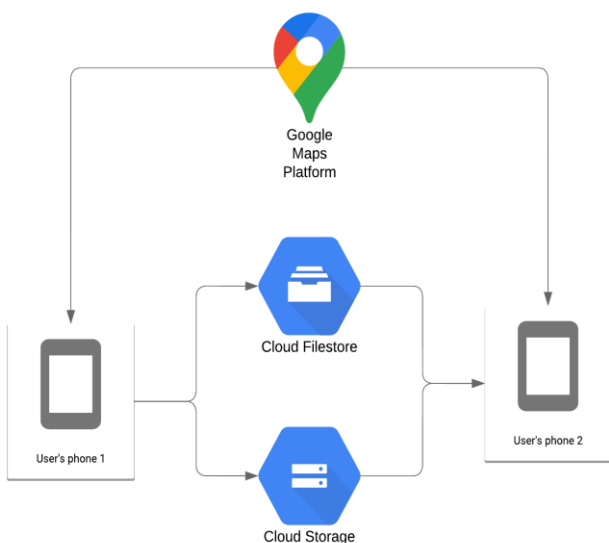
Search algorithm

The purpose of the algorithm is to allow the user to specifically find the places with the criteria he is looking for.

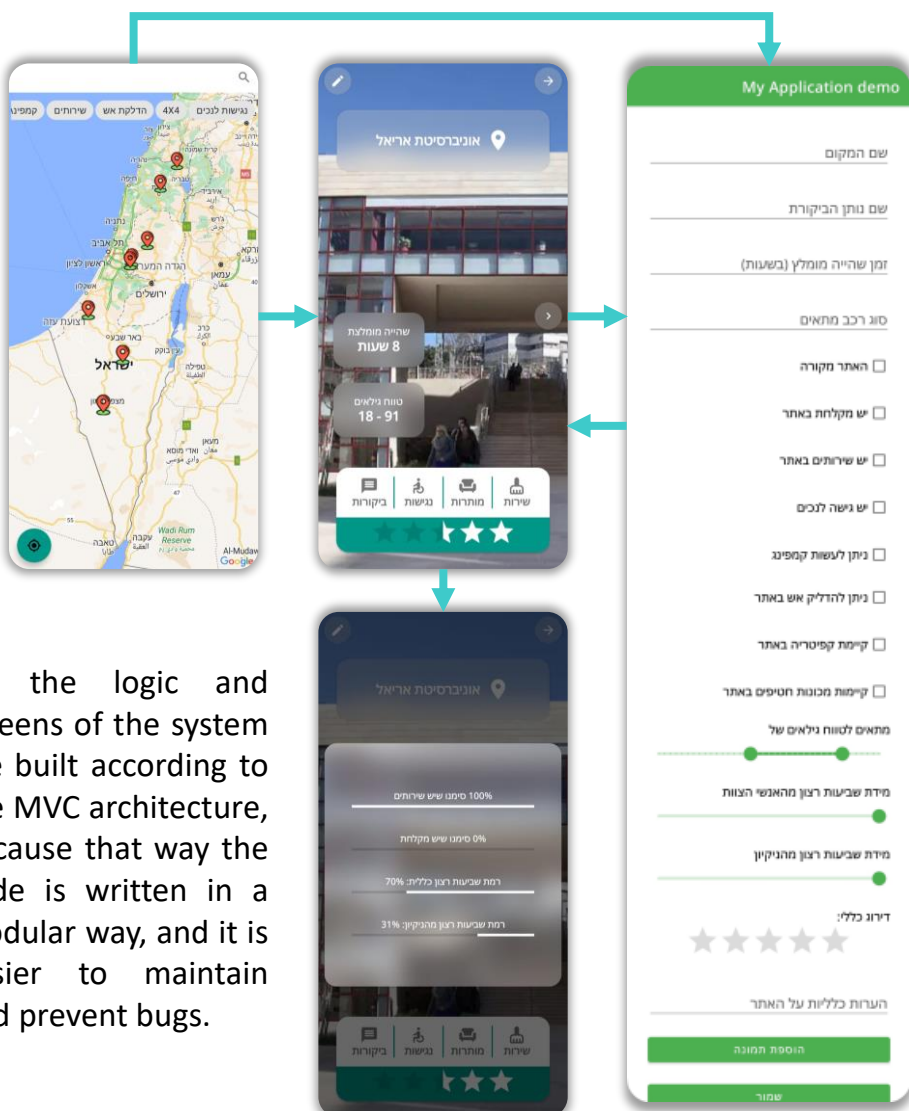
The search algorithm is based on a HashMap that contains pairs of <criteria, requested value>. The algorithm takes the list of places, converts them to a Java Stream in order to optimize the running times, then activates a chain of filter actions for each of the criteria so that at the end of the filter only places remain that match the requested value in each of the criteria.

At the end, the algorithm converts the result from Stream into objects that it displays above the map.

Architecture



Screen architecture



All the logic and screens of the system are built according to the MVC architecture, because that way the code is written in a modular way, and it is easier to maintain and prevent bugs.

Methodology

