**Requirements Documents:**

* **Project Purpose**:   
  Live monitoring of people density in places with emphasize on University's library.
* **Intended Audience:**   
  All the project members: Ohad, Dvir and Itamar  
  and also for the project mediator – Saeed Asaly.
* **Intended Use:**All the project members have the same permissions for editing and build the project, in a coordinated manner with each other of course.
* **Scope:**To give our customers accurate and reliable data- in which specific place they can go and its free, in order to give them fast search experience.  
  To give our customers real time reporting about the amount of people in the customer place.Timeline:1.4.22 – Alpha Version   
  28.5.22- Poster   
  8.6.23 – Presentation  
  23.7.23 – Final Version
* **Definitions and Acronyms**Risks**:**Non User-Friendly Application  
  Translating wring the number of signals to the number of peoplePermissions:  
  Owner (editing the settings of a place) (like the University)  
  Client (viewing the details about a place) (like students)

**2. Overall Description**

* **User Needs:**

The students will use the application in order to determine whether to go to a certain floor of the library or go at all.

The students will get access to the data through the android app providing it.

* **Assumptions and Dependencies:**

The usage obligates the customers and the owners for:  
An android device

The app downloaded

All the students in the library have two devices connected to the library Wi-Fi network

**3. System Features and Requirements**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Comments | Priority | Type | Permission | Description | ID |
|  | High | functional | Owner | Edit the capacity of a place | 1 |
|  | High | functional | User | Clearly display of the free places | 2 |
|  | High | functional | Owner | Count the signals around the Raspberry pi for accurately | 3 |
|  | High | functional | Owner | Send the data to the broker Raspberry pi | 4 |
|  | High | functional | Owner | Write all the data to a Database | 5 |