1. **Project Name:** Hebew Sign Language Translator
2. **Members names:**
   - Matan-Ben Nagar 206240301
   - Orya Spigel 207018524
   - Asahel Cohen 208925982
3. **Functional requirements (Users needs):**
   - Operational Requirment (High):
     - We need the phone camera to work in order to enable the openCV functionality, embedded inside the code. The camera will observe the person using Sign-Language and translate it to words to the user.
     - A comftorable UI for quick operations
     - User login page to different between Premium users and free users (requires an email account)
     - The system will need to be able to separate diffent signs.
     - A working phone camera
     - The application should be designed in a way which can allow recurrent training of the model (the more training, the better the results)
   - Data Requirements (High):
     - Sign langauge database which will be composed of images and videos
     - Sign language knowledge
     - Once the model recognizes a sign, it needs to write the corresponding word to the screen
     - SQL database for keeping the users information (premium or free users)
     - A cloud where we can luanch the app
4. Non-Functional Requirements:
   - Constraints (Low):
     - A lack of time (we only have two months)
     - A lack of budgets
     - We don't have enough computers resources (hence we can't train a big model)
   - Implementation (Medium):
     - Integration of the OpenCV library inside the app
     - SQL database
   - Hardware constraints:
   - Computational resources : won't be able to train a big model on our PC
   - Solution Quality (Medium):
     - Performance requirements: We don't expect the performance of our app to be excellent because our resources are limited (memory, gpu, etc…) . the app will only contain basic hebew words and letters.
     - Quality Attributes:
       - Credibility: we will try and make the model as reliable as possible, so the data will contain a limited amount of words **but** they will be farely well trained. There is still a risk that the model won't be able to recognize the signs with 100% accuracy.

- Security: the loggin to app will be used through the google UI to make sure our client's information is properly secured (especially the premium users)
- Maintability: we will make our app an open-source, to allow others to train and test the model as well.