# Software Requirements Specification

## **BatKol**

## team:

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## Introduction

## **Purpose**

- There is currently no social network with voice access for the visually impaired.
   There is no sound-based social network where people can express themselves without visual exposure.
- In our time (Corona) those who are not connected to social networks feel
  disconnected and isolated, for example other social networks where class is
  determined by appearance, status and money, and not everyone gets an equal
  opportunity, in addition no social network has that kind of voice access
  That will provide visually impaired people to feel like equal user.

#### **Intended Audience and Reading Suggestions**

The document is intending for reading to anyone who is going to develop this product, everyone who will be a partner in our development so that there will be a central and general document that will coordinate all the plans for this project.

## **Project Goals**

- connect the visual impaired to the social-digital world in order to make them feel more like they belong to a group that until today were not a full part of it.
- 2. Improving the feeling of people that appearance, status or money, is not their strong point, and will be able to have an equal starting point like everyone else.
- 3. Create a social network on the order of millions of users.

## **Target Users**

- Mostly for audience with visually impaired or disabilities.
- people who are shy to expose themselves and express their opinions on social networks through there voice only not appearance.
- Everyone

## **Definitions and Acronyms**

There is a risk that our voice navigation interface that base on voice will not provide independence feeling.

For solving it, there is a large eco system of voice navigation tools, we will learn how they are working then modify and develop on our own web app.

#### Overview and User needs

Our idea is to builds a platform for people who have disabilities with an emphasis on the visually impaired.

in addition for people who are shy to expose themselves on social networks.

We think there are a lot of people who are talented, funny, special, and also people who want to collaborate in the social network world.

by offering a new social network BatKol, our users get equal starting point and chance to gain popularity.

we doing it by only allows uploading voice recordings, without allowing any photos and videos.

In addition, our platform will include, full voice support, an accessible interface that allows people with disabilities to use it independently.

## **System Features**

## **Main System Feature**

- Sound-based social network
- Interface that will allow you to navigate the app based on sound (accessible for the visually impaired, and disabled)
- Recording search algorithm.
- Algorithm for identifying high recording volume and marking it to alert the user
- An algorithm for identifying dead times in recordings (for preferences only)
- Cocktail party effect for effective noise filtering.
- sound visualization (for preferences only)
- It will be possible to edit recordings using sound and add effects to them

## **External Interface Requirements**

#### **User Interfaces**

Our app will include:

- Login/Signup pages
- Option to upload and edit effects of voice record
- Main page for display and play the voice messages one after the other, without the need for touch and scrolling the screen.
- Profile editing page
- Preferences
- Comments and likes system.

#### **Hardware Interfaces**

We are aiming for web application so every devices that has connection to the internet and I/O access

#### **Software Interfaces**

- Simple social network backend
- Interface that will allow you to navigate the app based on sound (accessible for the visually impaired, and disabled)

#### **Communications Interfaces**

- Comments and likes system.
- Private chats between users (voice-based)

## **Other Nonfunctional Requirements**

## **Performance Requirements**

Develop complex voice algorithms to reach best performances

- Recording search algorithm.
- Algorithm for identifying high recording volume and marking it to alert the user
- An algorithm for identifying dead times in recordings (for preferences only)

• Cocktail party effect for effective noise filtering.

## **Security and Requirements**

We will use 3<sup>rd</sup> party management for database and storage security

## References

#### vision document:

https://github.com/amichai-H/Final-Project-CS/blob/main/The%20vision.pdf