

# Project Deliverable B: Need Identification and Problem Statement

GNG 1103 – Group 14

## Introduction

We gathered group members' notes and user/technical benchmarking information in a list of needs to make problem statement for real-time smart glasses (mentor).

An **API** is like a waiter in a restaurant. When you sit down, you look at the menu to see what dishes (services or data) you can order. You tell the waiter (the API) what you want, and he goes to the kitchen (the other application) to get your food (the data or functionality).

## List of needs

### 1. Software

- We want API that is fully functional and network aware. [Functionality]
- Prioritize the functional aspects of API rather than its visuals. [Functionality]
- API should be adaptable and expandable in real problems. [Expandable]
- API should give users a unique experience. [Unique]
- API must be able to control a physical device (glasses).
- API should demonstrate their app's capabilities (show off).
- Testing apps should be in private network (for mentor smart glasses).

### 2. Hardware

- Should be easy to maintain.
- API needs to be cost-effective. [Affordable]
- It should be simple yet contain lots of useful functions. [User-friendly] (From Amazon review)
- Lightweight. [Build Quality] (From Amazon review)
- Sound quality should be good. [Build Quality] (From Amazon review)
- It must fit onto their head and secured. [Build Quality] (From Amazon review)

## Problem Statement

- Functional network-aware API that lets junior employees to be remotely mentored by senior employees through smart glasses in real time.

## Conclusion

From the group discussion we derived our problem statement based on the priorities of list of needs. Using the list of needs and incorporating the problem statement, we are going to design an app for Shabodi using their API.

## Reference (User and Technical Benchmarking):

- [https://www.amazon.ca/OhO-Polarized-Sunglasses-Bluetooth-Protection/dp/B0815QYCDK/ref=sr\\_1\\_5?brr=1&dib=eyJ2IjojMSJ9.Bp7ht5ej7SO2UnE4YjfQ1nYcmComudiRV1BwPMB-rWR6vtBATI3QShKPGISA8oVQnzte0Qyw17K0ng7exMP4wwdyAWNZZIFU-TIICGty7MuFIkdIGGIVUI5NK2htaSCHfxS7rQGErqKrEPurXKkw-vN0UIFY9YCFw2uiYTaccyKHZqGGA1ChhTfy8UJ8SM-GqH24hxDuFdfNWxmor0eT5LNgUuSAMA7F0PkSrDk1vVQ4wheI7b9pfPHnrX9Lj-esJlomQVhHbrzIY0I7oTGauCLVYDdls7TJS56OIItLZ-FQ.G8olKRS9CnCXQX3eLN\\_atHRmU68BIiYQs54UnXfFgz8&dib\\_tag=se&qid=1727549636&rd=1&s=electronics&sr=1-5&th=1](https://www.amazon.ca/OhO-Polarized-Sunglasses-Bluetooth-Protection/dp/B0815QYCDK/ref=sr_1_5?brr=1&dib=eyJ2IjojMSJ9.Bp7ht5ej7SO2UnE4YjfQ1nYcmComudiRV1BwPMB-rWR6vtBATI3QShKPGISA8oVQnzte0Qyw17K0ng7exMP4wwdyAWNZZIFU-TIICGty7MuFIkdIGGIVUI5NK2htaSCHfxS7rQGErqKrEPurXKkw-vN0UIFY9YCFw2uiYTaccyKHZqGGA1ChhTfy8UJ8SM-GqH24hxDuFdfNWxmor0eT5LNgUuSAMA7F0PkSrDk1vVQ4wheI7b9pfPHnrX9Lj-esJlomQVhHbrzIY0I7oTGauCLVYDdls7TJS56OIItLZ-FQ.G8olKRS9CnCXQX3eLN_atHRmU68BIiYQs54UnXfFgz8&dib_tag=se&qid=1727549636&rd=1&s=electronics&sr=1-5&th=1)
- [https://www.evenrealities.com/en-CA/g1?gad\\_source=1&gbraid=0AAAAA98X0dm0S84HVSwmCOyoLD\\_Q-LHTJ&gclid=CjwKCAjw0t63BhAUEiwA5xP54atX58qygpP2XK2LTrPTOPz5wJxoB33y3yKvJszpkKVMGCqC2QVggxoCxTYQAvD\\_BwE](https://www.evenrealities.com/en-CA/g1?gad_source=1&gbraid=0AAAAA98X0dm0S84HVSwmCOyoLD_Q-LHTJ&gclid=CjwKCAjw0t63BhAUEiwA5xP54atX58qygpP2XK2LTrPTOPz5wJxoB33y3yKvJszpkKVMGCqC2QVggxoCxTYQAvD_BwE)
- <https://realwear.at/en/use-cases/remote-support/>
- <https://www.realwear.com>