



# VLOG 3

## TEAM VisuSpeak

Team Members:

- Archisha Bhattacharya
- Brooklyn Coulson
- Jasmeet Singh

# PROJECT OVERVIEW

- Our team is dedicated to developing an ASL-English bidirectional translation app, designed to facilitate seamless communication between ASL users and English speakers.
- This tool will provide real-time ASL to English translation, empowering individuals with special accessibility requirements to interact effectively and access vital services and information.



# PROJECT ACTIVITY DATES

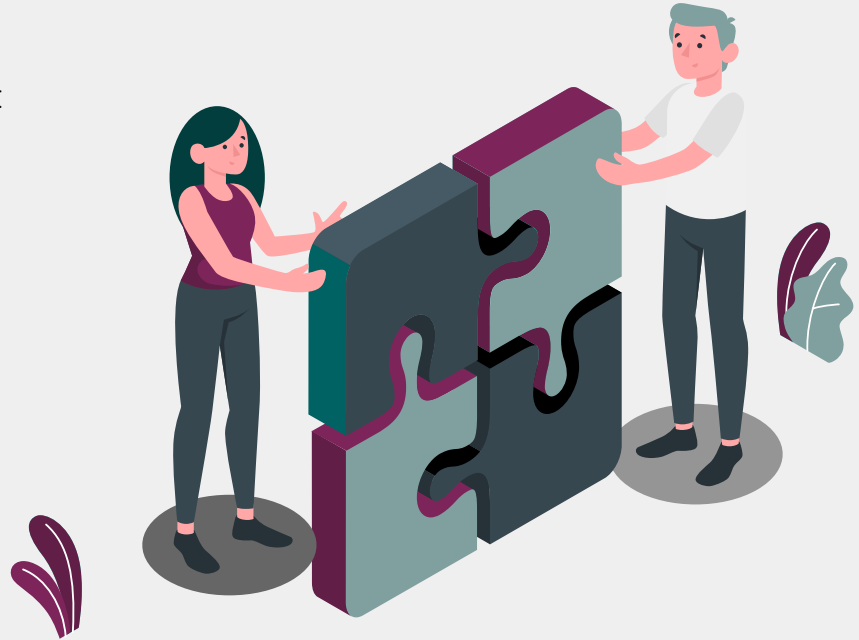
From Vlog 2 to Now



# PROJECT ACTIVITY

## Archi

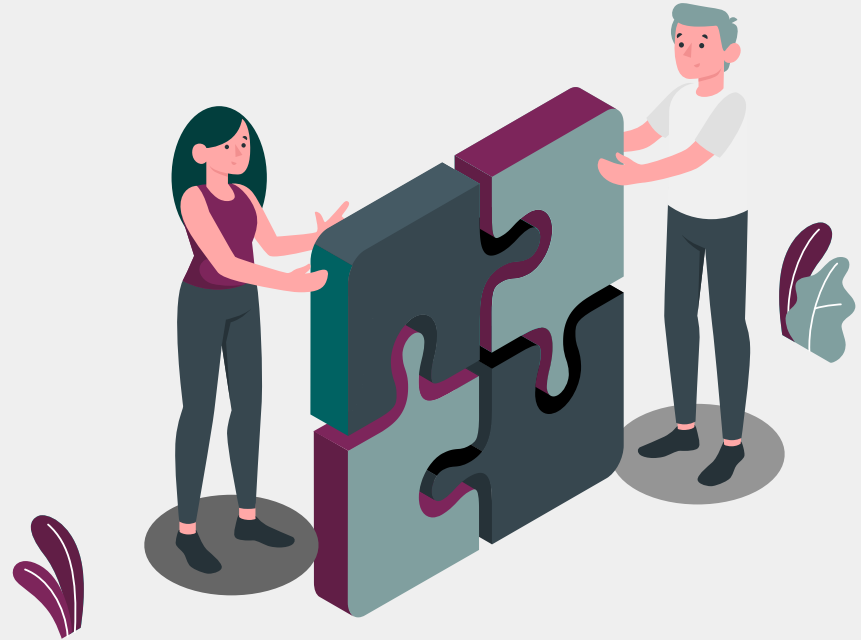
- Deployed AI Model on GitHub Pages
- Implemented front-end for the chat page and connected it to databases to store messages on our MySQL server
- Created APIs to store and fetch messages between front-end and back-end
- Created a chat server to fetch translated predictions from the AI Model to the chat application
- Added ability for users to sign in at different speeds
- Implemented Transcript History and additional required databases to maintain chat sessions for users



# PROJECT ACTIVITY

## Brooklyn

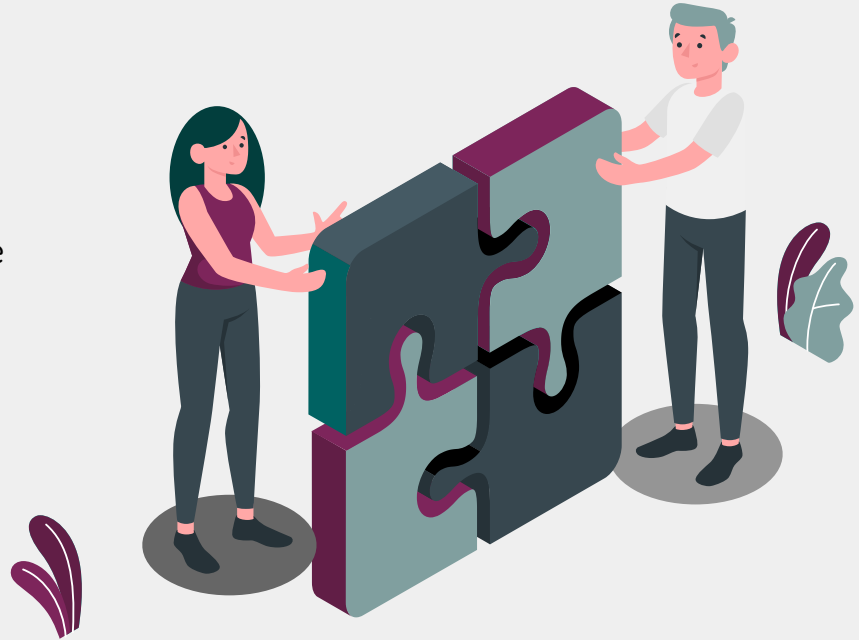
- GitHub housekeeping
- Created and uploaded Project Status Report
- Worked on adding relevant content to the 'About Us' Page
- Worked on the layout for 'Resources' Page



# PROJECT ACTIVITY

## Jasmeet

- Trained an AI model that recognizes ASL words
- Added styling to front-end to resemble the Hi-Fi prototypes.
- Secured meeting with testers and industry experts
- Worked on Implementing English to ASL translation for the Resources page
- Created the user testing plan and documents



# PROJECT STATUS: **YELLOW**



## REASONS FOR **YELLOW** STATUS

- We have not conducted user testing on the Chat Functionality.
- English to ASL translation is not implemented

## PLANS TO GET BACK TO **GREEN**

- Implement a user testing plan and conduct application testing with the user groups
- Implement English to ASL translation for the Resources page

# PROJECT ISSUES

- None





# PROJECT CHANGES



- We integrated a different AI model that is able to recognize ASL words as opposed to our previous model, which could recognize alphabets through ASL fingerspelling.
- We also redefined our project roles to better suit the direction our project has taken. We've then divided the remaining tasks according to these new roles.
- We changed our documents and wiki to reflect the changes accordingly.

# ACTIVITIES: PLANNED FOR NEXT WEEK

## GROUP UPDATES

- Conduct User testing for Chat Page with SDHH and U of R accessibility center
- Expand on the dataset to enable the AI model to recognize more words



# ACTIVITIES: PLANNED FOR NEXT WEEK

## ARCHI

- Deploy the new pages, that is, the Chat Page and Transcript History, to our LEMP Server on Digital Ocean
- Implement appropriate web sockets to allow two users to chat with each other
- Add SSL certificate to our LEMP server
- Refine UI based on feedback from user testing



# ACTIVITIES: PLANNED FOR NEXT WEEK

## BROOKLYN

- Expand the 'Resources' page
- Research on what other resources can be added to the 'Resources' page in addition to recommendations from our stakeholders
- Create a modal for the disclaimer
- Work on the 'Settings' page



# ACTIVITIES: PLANNED FOR NEXT WEEK

## JASMEET

- Expand the dataset to recognize more words
- Work on Spoken Audio to Sign Language Translation
- Create the ASL resources for library module
- Refine UI based on feedback from user testing



**Project status:** Yellow

### **What we feel particularly good about:**

- Integrated our AI model into the chat page
- Fetching accurate from the AI model to the chat input enables ASL users to communicate with the chat feature seamlessly
- Conducted the first round of user testing for our UI and AI model

### **Barriers:**

- None

### **Required help:**

- None

### **Questions/Concerns**

- None

## **TEAM REFLECTIONS**





**THANKS!**