1. **Description of the current system and features**

Our current system is mainly to generate an animation video from the text and audio files that user selected. The system is working by getting the phoneme list, which is done by using an existing library called gentle, of the audio. And based on the phoneme list, the system can combine the corresponding mouth picture for every phoneme, which can be found in lips moving reference, in the list then draw the animation smoothly. Also, there is a file in our system that is used to determine the mouth coordinates for the avatar so the mouth will not be in some strange places on the avatar’s face.

For the drawing process of the animation, it works like the adobe flash which combine the pose picture and mouth picture together then make them move from one to another smoothly. We also designed a GUI specifically for the peer testing process. The GUI asks user to browse and select text and audio file separately then take them as input to generate the animation video. The final video will appear in the folder and will start playing after successfully generated.

1. Participants and their corresponding administrators

|  |  |  |  |
| --- | --- | --- | --- |
| Participants Name | Status | Type | Administrator |
| Nolan Mcallister | Completed | User | Sarvagya Pandey |
| Kenji Niyokindi | Completed | User | Cooper Smith |
| Matthew Halim | Completed | User | Mawanli Cui |
| Elias Pinno | Completed | User | Yash Atreya |

The total number of participants is 4.

1. **User groups and their tasks**
2. **User Group 1**

Task Scenario: You are a middle school biology teacher who wants to create a animated video of a character explaining the concept of a Cell Wall. You want to show this video to your students so that they can learn about this concept in a fun and engaging manner. You have acquired the files containing the script and audio required to create the video already through Kukarella Text-to-Speech.

**User Group Covered**: Professional Users/Companies

**Tasks:**

1. Select the appropriate text file

2. Select the appropriate audio file

3. Generate the animated video

4. Locate ‘Vid\_final.mp4’ in the project directory (already open in file explorer).

5. Open and watch ‘Vid\_final.mp4’

6. Answer the questions about Video 1 in the Google Form provided (Link -

https://forms.gle/xT47VybcxRHCtYVV8)

1. **User Group 2**

Task Scenario: You are a casual user who has just come across this software. You find the premise of creating an animation with the help of just text and audio fascinating, and want to experiment with the software’s capabilities. You decide to type some random text for the animation and generate the audio file with a randomly selected voice, which happens to be aJapanese AI voice, through Kukarella Text-to-Speech.

**User Group Covered**: Casual Users/Enthusiasts

**Tasks**:

1. Select the appropriate text file

2. Select the appropriate audio file

3. Generate the animated video

4. Locate ‘Vid\_final.mp4’ in the project directory

5. Open and watch ‘Vid\_final.mp4’

6. Close the GUI.

7. Answer the questions about Video 2 in the Google Form provided (Link -

https://forms.gle/xT47VybcxRHCtYVV8)

Finally, answer the Heuristic Evaluation questions in the final section of the google form provided.

1. **The issue found during the peer testing process**

The most critical issues according to the participants: