Software Engineering Project

Test Cases

Test Case

Test Case #: 1.1 **Test Case Name:** Check Audio Recording **Page:** 1 of 5

System: Emotion Analyser **Subsystem:** GUI

Designed by: Jatin Mudgal **Design Date:** 24/11/22

Executed by: **Execution Date:** 25/11/22

Short Description: Test the working of the Record button

Pre-conditions:
The required libraries/dependencies are installed.
The client computer has a working mic/recording device.
The user inputs a valid human voice in the recording.
The user has an up-to-date web browser.

Step	Action	Expected System Response	Pass/ Fail	Comment
1	Click the 'Click to record' button	The system starts to record audio from the user interface device.	P	-
2	Click the 'Click to record' button again	The system stops recording the audio	P	-
3	**Check post-condition 1**			
4	Click the play icon on the media-player	The system should playback the recorded audio	P	-
5	**Check post-condition 2**			

Post-conditions
1. Audio is recorded and a media interface to listen to recorded audio pops-up.
2. Recorded audio is successfully played back to the user.

Test Case

Test Case #: 1.2 **Test Case Name:** Check Audio Re-Recording **Page:** 2 of 5

System: Emotion Analyser **Subsystem:** GUI

Designed by: Jatin Mudgal **Design Date:** 24/11/22

Executed by: **Execution Date:** 25/11/22

Short Description: Test the working of the Record Button

Pre-conditions:
The required libraries/dependencies are installed.
The client computer has a working mic/recording device.
The user inputs a valid human voice in the recording.
The user has an up-to-date web browser.

Step	Action	Expected System Response	Pass/ Fail	Comment
1	Click the 'Click to record' button	The system starts to record audio from the user interface device.	P	-
2	Click the 'Click to record' button again	The system stops recording the audio	P	-
3	**Check post-condition 1**			
4	Click the play icon on the media-player	The system should playback the recorded audio	P	-
5	**Check post-condition 2**			
6	Repeat steps 1,2,3,4	The system should record the audio again, replacing the previously recorded audio	P	-
7	**Check post-condition 3**			

Post-conditions

1. Audio is recorded and a media interface to listen to recorded audio pops-up.
2. Recorded audio is successfully played back to the user.
3. The previous audio is replaced and the new audio is recorded and played

Test Case

Test Case #: 2.1 **Test Case Name:** Predict Emotion **Page:** 3 of 5

System: Emotion Analyser **Subsystem:** GUI & ML Model

Designed by: Jatin Mudgal **Design Date:** 24/11/22

Executed by: **Execution Date:** 25/11/22

Short Description: Test the working of the Emotion Analyser

Pre-conditions:
The required libraries/dependencies are installed.
The client computer has a working mic/recording device.
The user inputs a valid human voice in the recording.
The user has an up-to-date web browser.

Step	Action	Expected System Response	Pass/ Fail	Comment
1	Click the 'Click to record' button	The system starts to record audio from the user interface device.	P	-
2	Click the 'Click to record' button again	The system stops recording the audio	P	-
3	**Check post-condition 1**			
4	Click the 'Predict Emotion' button	The system start processing the recorded audio and predict the emotion from it.	P	-
5	**Check post-condition 2**			

Post-conditions
1. Audio is recorded and a media interface to listen to recorded audio pops-up.
2. The system successfully predicts the emotion from the given recording and outputs it to the screen.

Test Case

Test Case #: 2.2 **Test Case Name:** Predicting emotion (NO Audio) **Page:** 4 of 5

System: Emotion Analyser **Subsystem:** GUI & ML Model

Designed by: Jatin Mudgal **Design Date:** 24/11/22

Executed by: **Execution Date:** 25/11/22

Short Description: Test the working of the Record button

Pre-conditions:
The required libraries/dependencies are installed.
The client computer has a working mic/recording device.
The user has an up-to-date web browser.

Step	Action	Expected System Response	Pass/ Fail	Comment
1	Don't click the 'Click to record' button	The system doesn't record audio from the user interface device.	P	-
2	**Check post-condition 1**			
3	Click the 'Predict Emotion' button	The system should recognise that no audio has been recorded and output ERROR message.	F	Unsuccessful; No error functionality for no audio recording. Cached result is displayed
4	**Check post-condition 2**			

Post-conditions
1. No audio is recorded.
2. The system displays Error message.

Test Case

Test Case #: 2.3 **Test Case Name:** Predict Emotion (Audio Defect) **Page:** 5 of 5

System: Emotion Analyser **Subsystem:** ML Model

Designed by: Jatin Mudgal **Design Date:** 24/11/22

Executed by: **Execution Date:** 25/11/22

Short Description: Test the working of the Emotion Analyser

Pre-conditions:
The required libraries/dependencies are installed.
The client computer has a working mic/recording device.
The user has an up-to-date web browser.

Step	Action	Expected System Response	Pass/ Fail	Comment
1	Click the 'Click to record' button	The system starts to record audio from the user interface device.	P	-
2	Record Audio using interface	-	P	The recorded audio should not be a human voice.
3	Click the 'Click to record' button again	The system stops recording the audio	P	-
4	**Check post-condition 1**			
5	Click the 'Predict Emotion' button	The system starts processing the recorded audio and should display an Error message.	F	The system falsely predicts an emotion from non-human voice.
6	**Check post-condition 2**			

Post-conditions
1. Audio is recorded and a media interface to listen to recorded audio pops-up.
2. The system produces an ERROR message instructing to record an audio of only HUMAN voice.