**Name: Shraddha Zingade Name: Unmesh Deodhar**

**PSU ID: 917845847 PSU ID: 979336532**

**Usability Test For Assignment-3**

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| **Test Case No** | 1 |
| **Test Case Name** | NLP functionality – Valid Input |
| **Test Case Description** | To check if API.AI returns the correct keyword |
| **Test Steps** | Give a valid query that is present in the database of intents |
| **Result** | The application gives the expected result keyword. |
| **Status** | Success |

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| **Test Case No** | 2 |
| **Test Case Name** | NLP functionality – Invalid Input |
| **Test Case Description** | To check if API.AI returns error when an invalid input is given |
| **Test Steps** | Give an invalid query that is not present in the database of intents. Eg: “ka ka ka” |
| **Result** | The application does not look for a Wikipedia page |
| **Status** | Success |

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| **Test Case No** | 3 |
| **Test Case Name** | No input |
| **Test Case Description** | To check if appropriate message is displayed when no input is given |
| **Test Steps** | Do not give any input after pressing on the voice input button |
| **Result** | The application gives a message asking the user to give an input |
| **Status** | Success |

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| **Test Case No** | 4 |
| **Test Case Name** | Wikipedia Page rendering |
| **Test Case Description** | To check if appropriate Wikipedia webpage is rendered |
| **Test Steps** | Give an input query and press the “Show wikipedia page” button |
| **Result** | The application displays the appropriate Wikipedia webpage |
| **Status** | Success |

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| **Test Case No** | 5 |
| **Test Case Name** | First line text of Wikipedia |
| **Test Case Description** | To check if appropriate first line is displayed in the TextView |
| **Test Steps** | Give an input query and wait for result |
| **Result** | The application displays the appropriate first line from Wikipedia |
| **Status** | Success |

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| **Test Case No** | 6 |
| **Test Case Name** | First line audio of Wikipedia |
| **Test Case Description** | To check if appropriate first line is spoken by the TextToSpeech function |
| **Test Steps** | Give an input query and wait for result |
| **Result** | The application first line being displayed is also spoken simultaneously from Wikipedia |
| **Status** | Success |

**Performance Questions:**

1. Is the application useful?
2. Did you experience any lag while getting the output?
3. Did you get the right result?
4. Was your question successfully taken as an input?
5. Did you experience any major issues with the application?
6. Did the application anytime?
7. Was the Wikipedia page successfully rendered?
8. How long did it take to get the speech output?
9. How long did it take to process the input?
10. Was your pronunciation accepted in the first attempt?
11. How many times did you have to give the input?
12. Did it show any error message in case of invalid input?
13. Is the application interface sufficient?
14. Is the voice prompt audible?
15. Is the pace of the prompt correct?
16. Was the result audio audible?
17. Is the accent of the result audio understandable?
18. Was the application compatible with your device?
19. Did the application crash in case of invalid input?
20. Did the application move from one page to other and back successfully?
21. Was the right Wikipedia webpage rendered?
22. Was the Wikipedia page clearly visible?
23. How long did it take to render the Wikipedia page?
24. Did all the buttons click successfully with the appropriate action getting called?
25. Were the errors (if any) successfully displayed?

**Preference Questions:**

1. Was the audio result too long?
2. On a scale of 0-10, how good do you think the application is?
3. What did you like best about this application?
4. What did you like least about this application?
5. What is your impression of the search capability?
6. What would be the thing you would like to improve about the application?
7. Is there anything that you feel is missing in this application?
8. What additional feature would you like to add to the application?
9. If you had to describe this application in one word, what would you say?
10. What is your overall impression of the application?
11. On a scale from –5 to +5, rate the help facility.
12. Do you prefer listening to the male or female voice?
13. What would you change about the application?
14. Would you prefer reading the Wikipedia page or the audio?
15. Do you prefer typing or speaking?
16. Do you think the application is user-friendly?
17. Was the appearance of the application appealing or could have been better?
18. What do you think this application was about?
19. Would you recommend this application to a friend?
20. How did you come to know about this application?
21. Does the application fulfill your daily need?
22. On a scale of –5 to +5, what would you rate the application
23. Would you prefer using the application on desktop or mobile?
24. Would you trust a third party application like ours on your device?
25. Would you like to have more commands or buttons?

**Testing Questions:**

1. Who is Barack Obama?
2. Who is Sachin Tendulkar?
3. What is a Laptop?
4. Define Interface
5. Search for Toys
6. Show results for India
7. Who is a Cook?
8. What do you mean by greetings?
9. Search China
10. What is Testing?
11. What is football?
12. Show me results for Soccer
13. Search for Metal
14. What is a Smartphone?
15. Tell me about Computer Science

**Estimated and Actual Time :**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Estimated  Research | Estimate  Design | Estimated  implementation | Estimated testing | Actual  research | Actual  Design | Actual implementation | Actual testing | T |
| TM1 | 3 | 1 | 10 | 1 | 3 | 1 | 16 | 1 | 21 |
| TM2 | 3 | 1 | 10 | 1 | 3 | 1 | 16 | 1 | 21 |
| T | 6 | 2 | 20 | 2 | 6 | 2 | 32 | 2 | 42 |

TM1: Team Member 1

TM2: Team Member 2

T: Total