# Client Application;

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| Test Name | Method | Expected Results | Passed |
| Can reach the Voice Recognition page | Click on the Voice Recognition button on the home page | The Voice Recognition Application page is now launched |  |
| Home button | Click home button | Should be returned to the home page |  |
| Recording status after page launch | Launch the Voice Recognition application | The recording status should be “Not Recording” |  |
| Recording status after clicking record | Click the record button | The recording status should change to “Recording” |  |
| Recording status after stopping recording | Click the stop recording button after starting a recording | The recording status should change to “Finished recording” |  |
| Recording button when not recording | Stop a recording or don’t start a recording | The recording button should read to “Start Recording” |  |
| Recording button when recording | Start a recording or don’t stop a recording | The recording button should read “Stop Recording” |  |
| Execute local recognition button without recording | Press the Execute Local Recognition button without recording a phrase | Nothing should happen, no error should be thrown |  |
| Execute local recognition button after recording | Press the Execute Local Recognition button after recording a phrase | The execution of the recording should be performed locally |  |
| Execute remote recognition button with no recording | Press the Execute Remote Recognition button without recording a phrase | Nothing should happen, no error should be thrown |  |
| Execute remote recognition button after recording without edge processing | Press the Execute Remote Recognition button after recording a phrase and don’t tick the pre-process checkbox | The Execution of the recording should be performed remotely on the Data Centre |  |
| Execute remote recognition button after recording with edge processing | Press the Execute Remote Recognition button after recording a phrase and tick the pre-process checkbox | The Execution of the recording should be performed remotely on the Edge Node and the results sent to the Data Centre |  |
| Local Results section when no local evaluation has occurred | Launch the Voice Recognition Application and don’t perform local evaluation | The results section is empty |  |
| Local Results section when the local evaluation has occurred | Perform local evaluation | The local results section should show statistics |  |
| Remote Results section when no remote evaluation has occurred | Launch the Voice Recognition Application and don’t perform remote evaluation | The results section is empty |  |
| Remote Results section when no remote evaluation has occurred | Perform remote evaluation | The remote results section should show statisticss |  |

# Edge Node Application;

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| Test Name | Method | Expected Results | Passed |
| Can make request to Voice Recognition Web Server | Make a curl request to the Edge Node using the hostname and port number | Receive Data back |  |
| Receive Get Request | Make a get request to the Edge Node | No error but no data returned |  |
| Receive Put Request | Make a put request to the Edge Node | No error but no data returned |  |
| Receive post request with invalid data | Make a post request with an invalid audio file or incorrect data | No error but no data is returned |  |
| Receive post request with valid recording | Make a request with a valid voice recording | A JSON object is returned with information about the request and the audio spoken |  |
| Receive valid request with the pre-process header | Make request with the pre-process request header set | The processing of the voice file happens on the Edge Node |  |
| Receive valid request without the pre-process header | Make request without the pre-process request header set | The voice recording is sent to the data centre for processing and the results returned to the user |  |
| Request information from the Data Centre when the WebAPI is not published | Remove the WebAPI and make a request | The service should record an error |  |
| Request information from the Data Centre when the WebAPI is published | Publish the WebAPI and make a request | The information should be returned correctly |  |
| Measure CPU use | Make a regular request | The CPU use on the edge node should be returned as part of the request |  |
| Measure Time of request | Make a regular request | The Time taken to process the request should be recorded |  |

# Data Centre Application;

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| Test Name | Method | Expected Results | Passed |
| Receive invalid request to process voice | Make a valid POST request with binary voice data | The voice is processed correctly and a valid response is produced |  |
| Receive valid request to process voice | Make an invalid POST request with invalid voice data | The voice request should be handled correctly and gracefully respond |  |
| Receive invalid request to record information | Make a valid POST request with textual data from a pre-processed request | The request should be processed correctly and a response generated |  |
| Receive valid request to record information | Make an invalid POST request without valid textual data | The request should be handled gracefully and a response sent |  |