**Project: Magic Wand**

***“ Let us dive into the magic wonderland”***

**Project Developers**

Steve Kennedy

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**Architecture Diagram:**

A close up of a map

Description automatically generated

**Project Deviation Statement:**

We haven’t deviated from the plan and we are as per the schedule.

Problems: The speaker produces very low sound of the recorded voice.

**Deviation:**

We did the database using SQLLite instead of MYSQL due to issues with MySQL on our new SD Card as the one which we were working got corrupted

**Third party code:**

We used references from the below resources

AWS services AWS Documentation and Python examples

<https://medium.com/@likhita507/conversion-of-text-to-speech-speech-to-text-using-cloud-services-5189f508bc9> <https://www.youtube.com/watch?v=KTa1T14nkbw> <https://www.youtube.com/watch?v=PLnRzHNmcao>

Setting up microphone on Rpi

<http://jonamiki.com/2019/07/04/sound-on-raspberry-pi-separate-speaker-and-microphone/>

PyQT Image display

<https://www.youtube.com/watch?v=D0iCHFXHb_g>

SQLite

<http://raspberrywebserver.com/sql-databases/accessing-an-sqlite-database-with-python.html>

NodeJS

<https://www.npmjs.com/package/sqlite3>

**Project Observation Statement:**

**Issues better than expected:**

* AWS services were easier to do with python API when compared to node.js
* Initially we did the project using AWS Transcribe. But we found it to be complex and takes more time for processing. Hence, we moved from AWS Transcribe to AWS Lex
* We found a good video for displaying image on PyQT which was easier than expected

**Issues worse than expected:**

* Our SD card got corrupted last night when we were working. And we lost some portion of code as we didn’t do a git push before it got corrupted. Hence, we did code for parts which we already completed
* After the code got corrupted, we flash a fresh image and found that MySQL was not working on the new image. It was saying that the socket is corrupted, but the code was working on Linux. So, we moved from MySQL to SQLLite.
* The mini speaker plays a very low sound of the recorded voice. Not sure what would be the problem.
* We did our schedule workbench in WBS Schedule Pro. But it seems that the unlicensed version is available only for 30 days and it got expired and we were not able to access the schedule which we made using the software.