**Progress log 6: 04/03/19 – 10/03/19**

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| --- | --- | --- | --- | --- | --- | --- |
| Task number | Task name | Begin Date | Due date | Time spent | Completed? | Comments |
| 1 | User testing | 04/03/19 | 10/03/19 | 50 hours | Yes | Not enough data. Must continue with this task next week |
| 2 | Software testing | 06/03/19 | 10/03/19 | 12 hours | Yes | Not enough data. Must continue with this task next week |
| 3 | Improve on the TensorFlow model by adding more words for recognition | 07/03/19 | 09/03/19 | 5 hours | Yes | I have further improved my model from last week in recognising more words, but the accuracy can still improve(e.g. ~89%) if we train it for longer |
| 67 hours | 0 tasks remaining |

**Purpose of tasks**

For the sixth week of my project, I started with user testing and software testing. For user testing, I aim to test the app with 210 random participants in the university or outside. So far, I have tested with 100 participants so will have to continue with this task next week. For user testing, I am getting people to test the app so I can gain data. For example, the participants I’ve tested with so far have experimented with the background speech recognizer in different scenarios (e.g. phone under the chair, blocked by a thick object etc.) For software testing, I aim to detect defects within my code and test the functionality/non-functionality of the app. I am currently doing this via functional, non-functional, dynamic and static testing.

**Discussion with supervisor**

In this week’s discussion, I showed my supervisor a demo of my functioning app. I received great feedback and is something I should take into consideration. For example, my supervisor stated that I should stop the voice recognition background service from running when it doesn’t detect any voices. This is so it can save the users battery power. Below are a few tasks we agreed on in which I can complete by next week.

* Continue with user testing and consider adding more interesting experiments that can output relevant/useful data (e.g. testing the background speech recognizer from specific distances 2 metres, 3 metres, 4 metres….)
* Continue with software testing
* Continue training the TensorFlow model, so its detection rate is at a high level