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CMPT 481
Milestone 2 Report

www.youtube.com/watch?v=hMAdtqDIBI4

Milestone activities and progress

4. *Refine presentation and processing layers*: Refine presentation and processing layers with a focus on usability and fluidity
- Progress: Partially complete
- While this isn't specifically mentioned to be part of this activity in my project plan, I have fully completed the state machine. This a key aspect of the processing layer, and enables the recognized characters and gestures to be interpreted into meaningful commands. All commands described in my project plan are supported.
- I have yet to improve the fluidity and usability of my interaction technique. At the moment, characters are still manually interpreted using a button, though I intend to replace this with an automatic mechanism (i.e. a timer).

5. *Complete communication layer*: Fully complete the communication layer to enable connection and data transmission to computers
- Progress: Incomplete
- At the moment, I have only begun to set up the classes and project structure to organize Bluetooth module/layer, but have yet to implement any actual functionality.
- Though I still have a lot of work to do here, I should be able to finish activity on time. I have already began to familiarize myself with the Android Bluetooth library (thanks to the many high-quality online resources out there), so this should hopefully be a straightforward process.

6. *Further refine presentation layer:* Refine presentation layer to enhance clarity and implement additional UI features as necessary
- Progress: Complete
- Considering the UI for this interaction should be as minimal as possible, I think I've done as much work here as necessary,
- To enhance clarity, I added a border around the main view of the application that changes colour based on whether you are in command or insert mode.
- The character recognition square displays the last interpreted character (or nothing if the drawn character could not be interpreted) to provide input feedback.

Next steps
- Complete the Bluetooth module to transmit commands to a computer (or supported device)
- Given enough time, find a solution for character recognition issues
- Add automatic character recognition mechanism
- Develop a proper, standardized testing mechanism (as opposed to the manual testing described in the project plan).
- Create final project report (vomit emoji) and video.