Team Name: Techblazers

Date of Submission: 10/31/21

Meeting Date & Time: Teams, 3 – 5 PM

Meeting Location: Microsoft Teams

Meeting Duration: 2 hours

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| --- | --- | --- |
| Team Members | X = Present | Notes |
| Slate Jordan | X |  |
| Chief Boateng | X |  |
| Victor Siooh | X |  |
| Emmitt Brandt | x |  |
| Chase Williams | X |  |

Progress:

**Team accomplishments for the week: A short narrative, typically 1-2 paragraphs, should include decisions made by the team as a result of the team discussions, and how the team arrived at the decision.**

We were able to schedule a convenient time and place to meet in person for our prototype. We decided to meet at the Innovation Hub instead of the John Bardo Center due to the additional equipment that they have such as soldering stations, 3D printer, etc. We were able to list out what our initial tasks are for completion in relation to our prototype. We received all our materials needed for our prototype. We plan to take stock of our materials, determine spatial availability of our keyboard with our materials, and design our capacitive touch grid. We were able to find another organization that we could donate our project to that helps people with low vision which is our target market. We also found organizations that could potentially be interested in our product.

**Individual contributions: A brief narrative (1-3 sentences) made by each team member summarizing their respective activity for the past week.**

Chief Boateng - Downloaded the Arduino IDE app and played around with the tools in the app to become familiar with it. Continued research on how code could be developed from data collected from an external board.

Slate Jordan: Continued looking at keyboard and possible ways to put the hardware together. Planning our prototype phase. Refining our hardware and material choices.

Emmitt Brandt – I began experimenting with and creating some code for an onscreen keyboard application. As of yet it is exceedingly basic and not super well configured, but I am learning how to use the module, and the GUI is starting to take shape.

Victor Siooh – I was able to initiate discussion over an in-person meeting regarding the construction of our prototype and schedule a meeting that was convenient for my group members. In addition, I was able to do some research on the Arduino Nano and tinker with an Arduino Uno which is similar to Arduino Nano for practice for familiarity on my own time.

Chase Williams – I continued reaching out to organizations that might be interested in our project. I looked into how we can give some mouse functions to the keyboard and found out we can do this using an Arduino microcontroller and the Mouse library. I thought of ways we can design our capacitive grid under the keyboard keys.

Project Tracking (current work): Assignments and activities are to be tracked until completed.

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| --- | --- | --- | --- |
| Team Member | Assignment | Due Date | % Complete |
| Victor Siooh | Research more information about the components surrounding the Arduino Nano and its capabilities for familiarity | 10/29/21 | 100% |
| Victor Siooh | Brainstorm ideas for prototype design with Arduino Nano. | 10/31/21 | 60% |
| Chief Boateng | Try out sample codes/watch videos of codes written on Arduino to understand their use | 11/05/21 | 0% |
| Emmitt Brandt | Make basic onscreen keyboard code | 11/06/21 | 25% |
| Emmitt Brandt | Learn how to create windows apps and create a test one to ensure knowledge | 11/13/21 | 5% |
| Slate Jordan | Try to find additional uses for the input enabled by our capacitive keys. | 11/07/21 | 45% |
| Slate Jordan | Design for prototyping | 11/15/21 | 10% |
| Chase Williams | Continue trying to talk to Envision. | 11/5/21 | 50% |
| Chase Williams | Finalize the layout of the capacitive grid. | 11/7/21 | 45% |
| Chase Williams | Test the capacitive touch sensor to see what readings indicate that a finger has touched the key. | 11/10/21 | 0% |

Plan (future work):

A brief description of the tasks and activities the team needs to accomplish work over the coming weeks. As team members pick up assignments, move from this table to the tracking table. Consider future work a running task-list with an expected due date for completion.

|  |  |
| --- | --- |
| Assignment | Due Date |
| In-Person Meeting Over Keyboard Design | 11/03/21 |
| In-Person Meeting on Sunday regarding integration of Arduino Nano and capacitive touch sensors | 11/07/21 |
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Issues:

Include a brief description of issues the team has encountered, and potential resolutions for the issues. If the team would like staff to help with the issues, this is the appropriate place to request assistance.

The organizations that we have contacted have been unresponsive, and the delay is costing us as we go forth with our product for feedback and criticism.

Include the schedule for the next meeting:

Meeting Date & Time: 11/07/21

Meeting Location: Innovation Hub, 3-5 pm.