Team Name: Techblazers

Date of Submission: 09/24/21

Meeting Date & Time: September 24th, 2021

Meeting Location: Microsoft Teams

Meeting Duration: 5 hours

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

As a team, we finally produced an idea which we feel is unique from other solutions on the market and also will provide a good amount of work for our team. We were also able to begin discussions about our design requirements and how we will build our project.

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

Victor Siooh: I researched different cameras that had OCR capabilities, and the majority of cameras that I found were related to document cameras. This did not provide much help as a reference due to the fact that the camera that was desired was one with mobility and could capture images at different angles with OCR instead of it being fixed at a position for one purpose. I also attended a meeting with Dr. Ara to discuss the Evergy QR Code project idea and collect some of his input on how to approach it. In addition, I sent an email to Doug Venjohn, who is an asset manager at Evergy for a request of proprietary data for the QR Code idea, but I received no response and therefore the QR code idea had to be scrapped due to time for data.

Emmitt Brandt: Further looked into existing OCR and ALDR technologies. Participated in team discussions on further project ideas we have as it became increasingly apparent that nobody really liked the ALPR idea. Discussed keyboards and how they might be improved.

Slate Jordan: Concluded from my research into ALPR, and ALPR detectors that our solution would not be unique enough from existing solutions. Meeting with Dr. Ara about Evergy project and discussion about other potential projects. Discussed and brainstormed ideas and directions we could take the keyboard idea including potential technologies that could be utilized including capacitive touch surfaces. Met to facilitate the completion of the project planning paper.

Chief Boateng: Completed research on the use of ALPR and understood what needed to be built. Met with Dr Aravinthan with the team to help discuss some of the hardware aspects of the ALPR project idea. Did research on a new Idea to figure out if there was a product similar to our idea already on the market. Also did some research to help figure out what this new idea would need in order to get completed. Used the information to help fill out some aspects of our project planning paper.

Chase Williams: I did some more research on the automated license plate reader detector idea with there being concerns about its feasibility. Also, I talked to Dr. Ara and some of my contact with Evergy about potential project we could work on, but nothing materialized. Consequently, I helped come up with another idea our group could work on, which is an app that displays where one’s fingers are while typing. I presented this to the group, and we discussed it. Finally, I helped write our project planning paper.

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

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| Team Member | Assignment | Due Date | % Complete |
| Chase Williams | Learn how we can incorporate capacitive key | 9/30/2021 | 10% |
| Chase Williams | Learn about the pros and cons of Bluetooth and a USB 3.0 cord for our design. | 9/30/2021 | 5% |
| Chase Williams | Determine options for displaying keyboard on a computer. | 9/30/2021 | 10% |
| Emmitt Brandt | Learn about keyboard drivers/software integration | 10/2/2021 | 5% |
| Slate Jordan | Research into how capacitive touch surfaces work and how to implement them into a keyboard | 10/8/2021 | 7% |
| Slate Jordan | Look into USB communication protocols with relation to multiple data streams comparing USB 2 and 3 | 10/3/2021 | 0% |
| Victor Siooh | Research about the internal parts of keyboards for hardware knowledge | 09/30/2021 | 5% |
| Victor Siooh | Research about how capacitive keyboards work and how to possibly incorporate them into keyboards. | 09/30/21 | 0% |
| Chief Boateng | Complete research on coding languages which could be used to build an app on different operating systems. | 09/29/21 | 0% |
| Chief Boateng | Research into how it could be possible to display a transparent keyboard on screen without disrupting other running applications | 09/29/21 | 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.**

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| --- | --- |
| Assignment | Due Date |
| Planning Paper | 09/26/21 |
| Midterm Presentation | TBD |
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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:**

Some of the issues we encountered was determining the feasibility of our proposed project ideas. For example, there were moments to where we had to switch a project idea for another one because of time constraints related to data. The Evergy Q.R code idea required us to have proprietary historical data in order to implement our project idea, and we were informed that Evergy may not have some of the data we are looking for such as inspection records, maintenance records, or event histories such as a discontinuation of a transformer. Therefore, we decided to scrap this idea because of risk and uncertainty, which meant that we also had to form another project idea (touch typing trainer) and determine its feasibility and impact for a group of consumers. Another issue will be the fact that our team needs improvement of familiarity on the hardware side of keyboards and capacitive touch technology, but this can be resolved through research.

**Include the schedule for the next meeting:**

Meeting Date & Time: 3-4 PM Sunday

Meeting Location: Teams