Team Name: Techblazers

Date of Submission: 09/19/21

Meeting Date & Time: September 19th, 2021

Meeting Location: Microsoft Teams

Meeting Duration: 2 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.

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

Victor Siooh: I was able to do some research over some cameras that incorporate OCR in the market. The cameras that I found were mainly document cameras which may not be of use for the scope of our project. I may do some research and see if there are ALPRs in the market and their functionality. Eventually, I was planning on doing some research into camera modules and determine what could be best for our situation. I also attended a meeting with Evergy and discussed the criticisms with our initial QR Code idea and asked for input and feedback from attendees.

Emmitt Brandt: Did research into OCR technology to become more familiar with how it works and how it deals with distortion. Looked a bit into open source OCR.

Slate Jordan: Research into existing ALPR devices and what their capabilities are. Thinking about ways and features that could differentiate our ALPR and if it is an idea worth pursuing. Possible idea to incorporate the detection of ALPR’s, red light cameras, speed cameras, etc. Into database

Chief Boateng: Did some research on our project idea with the project planning paper in mind, discussed some agenda with group members for a meeting we would have with Dr Stallard about our product idea.

Chase Williams: I researched the problems with automated license plate readers (ALPR) and found that privacy was the biggest one. I thought of a way to make our current ALPR more privacy-focused and also thought of a new idea for an ALPR detector. I shared my research and new ideas with the group. I helped set up a meeting with Dr. Ara, so we can see what he thinks about our project ideas.

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

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| Team Member | Assignment | Due Date | % Complete |
| Chief Boateng | Researching deeper into OCR and ALPR devices, | 09/21/21 | 30% |
| Victor Siooh | Research cameras that contain OCR and their specifications such as battery life along with their costs and environmental factors such as weather. Research customer reviews regarding existing technologies for potential problems | 09/21/21 | 60% |
| Victor Siooh | Researching camera modules that could be incorporated within project. | 09/26/21 | 5% |
| Slate Jordan | Research to decide if our solution can differentiate itself enough from existing technologies in terms of price, effectiveness, etc. | 9/19/21 | 90% |
| Slate Jordan | Start learning about computer vision with machine learning | 9/27/21 | 10% |
| Chase Williams | Researching the problems wth ALPRs | 9/09/2021 | 100% |
| Chase Williams | Research the current algorithms used for OCR and object detection to determine the best one to use for this project and possible improvements to it. | 9/27/2021 | 50% |
| Emmitt Brandt | Continue research into OCR, how it works, methods that perform it, and methods to help it function. | 9/26/2021 | 25% |

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 |
| Meeting with Dr. Ara | 09/21/21 |
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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:

We have had to bounce between two different ideas such as the QR Code Idea sponsored by Evergy and an idea involving ALPRs and ALPR detectors.

We have a meeting setup with Dr. Ara to discuss ideas, so we can decide if we want to change our project.

Include the schedule for the next meeting:

Meeting Date & Time: 3-4 PM

Meeting Location: Teams