**Minutes of the Project Pyro: Supervisor Meeting Minutes**

Date    : Thursday, 10th March  2022

Time    : 1600 Hrs

Location   : Zoom (Online)


Present:
Zeph Ng , Backend Developer & IoT Engineer, Project Pyro
Chua Soon Ann, Computer Vision Developer, Project Pyro
Pearlyn Loh, Frontend Developer, Project Pyro
Livana Ho, Project Manager, Project Pyro
Henry Wee, Quality Assurance, Project Pyro
Professor Thivya, Faculty Supervisor, SMU-SCIS


Late with Apologies:


Absent with Apologies:
Kelly Tay, UI/UX, Project Pyro (Lesson)


| Item | Discussion | Action(s) by |
|------|------------|--------------|
| *1* | ***Update of team's progress*** | |
| 1.1 | Livana shared screen and gave us an overview of the timeline and the tasks needed to be done for the week. She concluded that we are on time and each of the group members will update her accordingly since we are moving towards a lean kanban model for project management. We will also be adding time estimation of each task to monitor our efficiency. | All Parties |
| 1.2 | Professor Thivya mentioned that as long as we are on track it will be okay. We do need to track the efficiency of the teammates. She thinks our group should have no issues with the deadline. | |
| 1.3 | Zeph updated that he has managed to hook up the pan tilt platform which will allow the system to scan constantly and stop once it detects a fire. | |
| 1.4 | Zeph mentioned that for the phase 2 transition to flask, flask does not allow us to dynamically change the webpage. Flask expects us to refresh or guide the user to a new page to update the status, we have since use flask socket io to stream the data from firebase and use javascript on the front end to update and flask socket io to update on the back end. Suggest | |

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| | that the Professor can head to our website https://team-pyro-dashboard.herokuapp.com/ to have a live view of progress. | | |
| 1.5 | Zeph mentioned we will now be focusing on the other functionalities like muting the alarms. | | |
| 1.6 | Pearlyn mentioned that since we have transition to flask, she is optimising the code to suit flask and including new pins to show dispatch status of the fire station. She will provide a visual update by next week. | Pearlyn Low | |
| 1.7 | Soon Ann shared screen and showed his progress on the computer vision model. He went through the dataset and filtered out the data and used pictures with better resolution. For now he has 1,500 photos with both indoor and outdoor fire. In his first testing there was only outdoor fire which affected our accuracy when we were trying to test for indoor fire. He did some augmentation to flip the images of fire horizontally to get more shapes of the same fire to train on. After the new training, the precision has increased to 0.8 but recall is still around 0.4. He also found some research on training the model; it is not a fire to see whether he can bump up the recall accuracy. | Chua Soon Ann | |
| 1.8 | Professor Thivya mentioned that our accuracy is quite accurate now but since we determined that recall is more important metrics, we will find other ways to improve the model since we have more time now. | | |
| 1.9 | Soon Ann mentioned he is currently training at 200 epochs but most optimal is at 136 epochs. | | |
| *2* | ***Mid-term presentation feedback*** | | |
| 2.1 | Zeph asked whether there is any feedback on grades on things to improve on. | | |
| 2.2 | Professor Thivya said we will see the detailed feedback by early next week. | | |
| With no further items, the meeting adjourned at 1620Hrs | | | |

Prepared by/date            : Henry Wee / 10th  March 2022