

Minutes of the Project Pyro: Supervisor Meeting Minutes

Date : Thursday, 31st 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	<i>Update of team's progress</i>	
1.1	Livana mentioned that we are focusing on our sprint retrospective with sponsors check in this week. Furthermore, we will be doing our UAT with OSS after this meeting. The UAT involves testing of the dashboard with a security officer.	
1.2	Livana also gave a breakdown on our sponsor check in with SCDF. Mr Yeo gave us feedback for us to consider. He reminded us to focus on the operational side if we want to promote the solution to SCDF and we will need to have a trajectory timeline to indicate how we can test this proof of concept on a small area and move on to the whole of Singapore.	
1.3	Livana also explained that the difficulty of testing the hardware in the SCDF facility was due to the resignation of our supposed contact person who was very open to have physical testing. Therefore, we did another internal testing on Tuesday.	
1.4	Zeph mentioned that one of Mr Yeo's concerns was the lack of resources on SCDF end to deploy such a solution but we have already assured him that this is a proof of concept project and there is no pressure to push this solution out soon.	

1.5	Zeph went on to share about the internal testing which was done at labrador park last tuesday. The testing objective was to test the computer vision model on a real fire. In summary the camera worked well, he also pointed out the issue of the model we bought for the visual camera. The reason we bought this was because during our preparation for the project, we were looking through various research papers and it seems to point towards this particular model. However, after testing, we realised the model produces a purple tint in the day but there is no tint at night. Because of this, when the fire is very small, the fire will look purple but our training data is trained with the real colour of the fire without the purple tint.	
1.6	Professor Thivya suggested that we can do an image correction before applying the machine learning model but it will not be ideal because it will take far too much time.	
1.7	Zeph mentioned that despite the tint, everything is working smoothly including the swivel function. He also briefly explained how the process will work. Upon detection of fire by the smoke alarm, the system will activate our cameras and it will scan 180 degrees from left to right. If there is no fire, it will mute the alarm.	
1.8	Livana said we are mostly done with our project, we will be focusing on the documentations and tried to confirm the project presentation date and the final report rubrics.	
1.9	Professor Thivya mentioned that we should just complete the documentation with the idea that if anyone wants to take over the project, they will be able to continue our work by reading the report. The source code is not necessary in this case but all other relevant information should be included inside.	
With no further items, the meeting adjourned at 1620Hrs		

Prepared by/date

: Henry Wee / 31st March 2022