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Minutes of the Project Pyro: Supervisor Meeting Minutes

Date   : Thursday, 17th February 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 mentioned that the team has integrated everything successfully. Soon Ann is still working on improving the accuracy, other than that all deadlines have been met. Livana also mentioned that we have checked in with OSS earlier and the feedback was positive. Kelvin from OSS also asked whether we can connect to the fire alarm panel but other than that he was very happy and impressed with the functionality.	
1.2	Zeph explained the main functions of the dashboard. We will have a user account management tool to help manage accounts between various stakeholders. Our dashboard will also have a dispatch button so that stakeholders can inform SCDF once they confirm it is a fire.	
1.3	Zeph also mentioned we will do another UAT internally before proceeding on to UAT 2 with the stakeholders.	
1.4	Soon Ann shared screen and showed the new and improved computer vision model. He mentioned the differences with 100 epochs using a smaller dataset and retrained the model on a larger model with some image augmentation. There is an increase of precision and recall with the	

1.5	new dataset and may want to remove training on smoke and focus on training on fire to improve accuracy. Soon Ann mentioned that after our discussion with Kelvin, he suggested we can focus on fire because fog can be seen as smoke and it may trigger a false alarm. He will try to scrap images on google and annotate himself to help with indoor fire training.	Chua Soon Ann
2	**Mid-term presentation**	
2.1	Zeph asked whether it is possible to do the presentation physically since it will be easier to demo it in real life. Professor Thivya said we will still stick to a zoom presentation, we can record a video demo which will make things easier.	All Parties
2.2	SCDF will not be able to make it for the presentation but OSS will be there.	
3	**Other updates**	
3.1	Zeph mentioned that will be conducting UAT on the camera and computer vision model this weekend.	
3.2	Zeph asked about best practices for account management. Professor Thivya said we have to think about how we want to navigate the data and ways to protect the data based on the user requirement due to the sensitivity of the data stored. She suggested having one level of security for SCDF to approve accounts and keep personal data in each stakeholder's premises. We will need to think of possible servers to store data and decide on the approval process.	
3.3	We touched on the topic of video streaming and taking snapshots when activated but agreed that there are many other considerations such as privacy issues, cost for streaming and being out of scope for this current project.	
With no further items, the meeting adjourned at 1630Hrs		

Prepared by/date : Henry Wee / 17th February 2022