Minutes of the Project Pyro: Internal Minutes

Date   : Tuesday, 8th February 2022

Time   : 2000 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
Kelly Tay, UI/UX, Project Pyro
Henry Wee, Quality Assurance, Project Pyro

Late with Apologies:

Absent with Apologies:

Item	Discussion	Action(s) by
1	***Computer Vision Model***	
1.1	Zeph asked Soon Ann whether he has any updates on his fire detection model .	
1.2	Soon Ann replied and said he will share screen and pull out the latest changes.	
1.3	Soon Ann said he has trained the model previously on Yolo5S and tried training on different Yolo5 models. He trained it on 300 epochs and it crashed a few times in the middle but fortunately there is a script that allows you to continue training from where you left off.	
1.4	Soon Ann took about 3 days to train everything but the results are not as satisfactory as assumed, precision and recall for fire went up but smoke is still low. Soon Ann suggested removing smoke detection and focusing on fire instead. The old precision and recall is 0.33 and 0.31 but after retraining it is showing an average of 0.48.	
1.5	Soon Ann is still trying to find more data online to expand the model, he also mentioned that Professor Thivya suggested training the model longer for better results.	Chua Soon Ann

2	*Documentation*		
2.1	Zeph talked about needing to do the mid-term presentation now like slides and content. Told Kelly and Henry to populate the wiki and skeleton for the slides.		
2.2	Henry went through the skeleton and flow of the mid-term presentation. Henry also asked whether we need to create a persona for both OSS and SCDF to which Zeph replied yes.	Henry Wee	
2.3	Henry asked Zeph about architecture and navigation diagrams, Kelly clarified about what the navigation diagram is about.		
2.4	Henry updated Zeph on the arrival of the hardware parts. All parts should arrive within a day or two.		
2.5	Henry shared the theme for the slides. Zeph set a timeline to have half of the content out before meeting Professor Thivya this coming Thursday		
3	*Jira Project Management Tool*	Zeph Ng, Chua Soon Ann, Livana Ho	
3.1	Zeph suggests having a physical meeting with Soon Ann and Livana to go through Jira together.		
4	*Wikipage*		
4.1	Kelly asked everyone to vote for their preferred logo on telegram.	All parties	
4.2	Kelly asked Zeph how much of the wikipage should be completed by mid-term. Zeph said we will need to have everything up before mid-term.		
4.3	Kelly confirmed whether everyone can make it for the sponsor meeting. Pearlyn mentioned one of her classes clashes with the meeting. The group agreed that not everyone needs to be present.		
5	*Transition to Flask*		
5.1	Zeph told Pearlyn and Soon Ann that they will need to do the transition to flask earlier because he foresees facing some problems pushing the code to the main branch.		
5.2	Zeph reminded Soon Ann to prepare the documentation for the computer vision model.		
With no further items, the meeting adjourned at 2030Hrs			

Prepared by/date   : Henry Wee / 8th February 2022