

Minutes of the Project Pyro: Internal Minutes

Date : Sunday, 30th January 2022

Time : 1200 Hrs

Location : SCIS Level 3, Project Way

Present:

Zeph Ng , Backend Developer & IoT Engineer, Project Pyro

Chua Soon Ann, Computer Vision Developer, Project Pyro

Pearlyn Loh, Frontend Developer, Project Pyro

Late with Apologies:

Absent with Apologies:

Item	Discussion	Action(s)) by
1	<i>Integration - Project End-State</i>	
1.1	Zeph shared with Soon Ann and Pearlyn about the technicalities of the integration process.	
1.2	Zeph shared that the Raspberry Pi will contain the Computer Vision Model, which follows the edge computing model.	
1.3	Zeph shared that the Raspberry Pi will perform the image computation and thermal computation internally and send the output to the Firebase real-time database.	
1.4	Zeph then shared that the Dashboard will be linked to the Firebase real-time database and this will be how the Dashboard is updated of any real-time fire.	
1.5	Zeph shared that the end state Dashboard should have a proper backend, in this case Flask, and will be hosted on Heroku.	

2	<i>Integrating the Computer Vision Model with Raspberry Pi</i>	Chua Soon Ann
2.1	Zeph requested for the terminal command to run the computer vision model from Soon Ann.	
2.2	Zeph also requested for the dependencies for the Computer Vision Model from Soon Ann.	
2.3	Soon Ann said he will craft the terminal command and send it to Zeph to test on the Raspberry Pi. Soon Ann also provided the requirements.txt file to Zeph for him to check on the dependencies.	
3	<i>Integrating the Dashboard with Firebase Database</i>	Pearlyn Loh, Zeph Ng
3.1	Zeph told Pearlyn to integrate the Dashboard to the Firebase real-time database directly first. Zeph mentioned that we should use the Firebase javascript API for now, and once we move to Flask, we will shift the API calls to a python library.	
3.2	Pearlyn asked Zeph for the private key for the Firebase real-time database so she can read and write to the database.	
3.3	Zeph said he will extract it out and provide the private key to Pearlyn.	
3.4	Pearlyn said she will work on implementing the Firebase javascript API in the Dashboard.	
4	<i>Integrating the Raspberry Pi with Firebase Database</i>	Zeph Ng
4.1	Zeph said he will work on including a python library for the Raspberry Pi to read and write to the Firebase real-time database.	
With no further items, the meeting adjourned at 1300Hrs		

Prepared by/date

: Zeph Ng / 30th January 2022