Project Review Proforma – Review number: 2 Date: 5/2/2024

<table>
<tr>
<td>Summarised Planned State of Project:

Design Solution/Application:
1. Designing wearables that can be integrated with emotion classification and heart disease prediction models. (Optional)

Development of AI Model:
1. Setting up an environment to deploy a heart disease detection and prediction model.
2. Coding program to develop emotion recognition model.
3. Coding program to develop heart disease prediction model.
4. Coding program to connect sensor with AI model.

Deployment of Model and Sensor into Edge and Cloud Computer:
1. Deploying emotion recognition model developed onto edge computer.</td>
<td>Actual Progress Since Last Review

Design Solution/Application:
1. The wearables design was done according to plan.

Development of AI Model:
1. Environment and libraries for edge computer and AI model have been set up.
2. The dataset was downloaded, and a customized dataset was created.
3. TensorFlow model was trained.
4. TensorFlow Lite model was created and uploaded onto STM32Cube IDE.
5. Debug and solve flash memory insufficient issues.
6. A program that connects sensors with an AI model has been created.
7. The task was performed according to plan.

Deployment of Model and Sensor into Edge and Cloud Computer:
1. Debugging deployment of AI models and sensor code.
2. The task is still ongoing.</td>
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<td colspan="2">Next Steps
1. Start writing the thesis draft.
2. Complete the first cycle of obtaining real-time inference using values from sensors.
3. Debugging firmware deployment on STM32CubeIDE.

Supervisor Feedback
The supervisor recommended commencing the drafting of the thesis and focusing on completing the initial phase of acquiring real-time emotion classification inference utilizing sensor data.</td>
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