Mid Checkpoint Report
Bangkit 2023 Product-based Capstone

Project Name : **ZooMates: App-based Real-Time Animal Recognition Technology for Early Childhood Interactive Learning**

Team ID : **C23-PS090**

Team Member :

- (MD) A146DSX3702 – Muhammad Willdhan Arya Putra – Universitas Bengkulu - [Active]
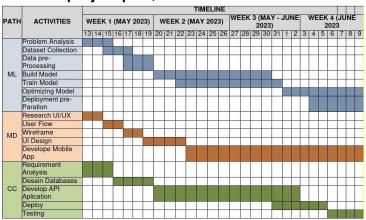- (CC) C146DSX2709 – Andhika Amarullah – Universitas Bengkulu - [Active]
- (CC) C303DSX2647 – Dalbert Setiadi Salim – Universitas Pelita Harapan - [Active]
- (ML) M151DSX1780 – Mochammad Yosi Pratikno – Universitas Brawijaya - [Active]
- (ML) M266DSY2494 – Indah Purnamasari – Universitas Musamus Merauke - [Active]
- (ML) M282DSX0420 – Diaz Wahyu Sya'bana – Universitas Negeri Malang - [Active]

Project Schedule (based on project plan):

Project Progress Description:

- Progress has been done :
  1. Machine Learning : Model machine learning convolutional neural network (CNN) and deploy model.h5 into tensorflow lite and json.
  2. Cloud Computing : Making google cloud storage, setting IAM for role, providing database with phpmyadmin.
  3. Mobile Development: implement layout from design (raw), using CameraX to display the camera, and setup retrofit (barebones) for networking.
- Task on progress
  1. Machine Learning : adding feature google text to speech.
  2. Mobile Development: setup retrofit configuration for communicating with api from cloud.

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- Task not started yet
    1. Machine learning : Make feature augmented reality (this optional) if the main feature has been done, we will try this optional feature.
    2. Cloud Computing : Use app engine for deployment process but it will change anytime during capstone deadlines.

If the complete capstone is 100%, tell us how many percent of your group's project has been completed? Please describe the reason for your percentage.

Our project is about 50% progress, where the ML team has created the CNN model and deployed the model.h5 to tensorflow lite and json, the CC team has created Google Cloud storage and provisioned the database with phpmyadmin, and the MD team has deployed a layout from design and setting up retrofits for the network; we are currently completing the addition of google text to speech and augmented reality features by the ML team and retrofit configuration by the MD team.

Please attach your supporting evidence.