Project Brief - Bangkit 2023

C23-PS262

SkinCareku

Product Capstone

Team ID : C23-PS262

Selected Themes/Case : Human Healthcare and Living Wellbeings

Mentor Name : **Ari Sulistiyo Prabowo,** 29 May 2023
Anggita Windi Tiasari, 13 June 2023

Member Name :

1. **M222DSX0219** - William Hong - Universitas Kristen Duta Wacana - Machine Learning - active
2. **M222DSX3118** - Gian Nathan Christyo Nugroho - Universitas Kristen Duta Wacana - Machine Learning - active
3. **C226DSX0853** - Alvon Jovanus Chandra - – Universitas Kristen Maranatha - Cloud Computing - active
4. **C226DSX0859** - Immanuel Kurniawan David Airlambang - Universitas Kristen Maranatha - Cloud Computing - active
5. **A222DSY1133** - Sabrina - Universitas Kristen Duta Wacana - Mobile Development - active
6. **A139DSX1702** - Henry - Universitas Atma Jaya Yogyakarta - Mobile Development - active

Backgrounder:

1. Machine Learning: Building models with TensorFlow lite for image classification tasks, We use Kaggle as a cloud based machine learning platform to train our machine learning model because of the easy to use dataset. We'll train a model to classify images of faces as having Acne, Clear Skin and Comedo.
2. Mobile Development: Deployment of TensorFlow lite and creating both user and an admin app. Application has a real-time connection using firebase and mechanism to a data buffer in case internet connection is unavailable.
3. Cloud Computing: Creating API authentication for users, developing a product API to list and recommend available products, with the ability to filter based on fields and ingredients, configuring IAM policies for each member of the Capstone Project team to grant access according to their needs, configuring IAM policies for the Service Account used, setting up Firebase for user authentication using the email

Project Brief - Bangkit 2023

and password method, and Firestore for storing user profiles and product data. Additionally, deploying the Firestore API with Cloud Run and the machine learning model API with Compute Engine, and creating API documentation using Swagger UI.

Project Status (Select One)**:**

1. 100% Completed based on Project Plan

Screenshots/Demo Video:
Demo Video:
https://drive.google.com/drive/folders/1196BbTOYhd4ShssmnE8M2k20O1s8-FCz?usp=sharing

Dataset Link:
Face Skin Disease: https://www.kaggle.com/datasets/philibraspacex/faceskin-dataset
Skincare Product: https://www.kaggle.com/datasets/philibraspacex/skincareproductdataset

Deployed Link:
Image Classification Notebook :
https://www.kaggle.com/code/philibraspacex/notebookb56ae0a974
API Documentation:
https://services-skincareku-5ctldki4wq-et.a.run.app/api-docs/

Github Repo Link:
https://github.com/AlvonJ/skincareku-project

10-Min Video Presentation Link:
https://youtu.be/BLgqEWHeQ-Q

Slide Presentation Link(s):
https://www.canva.com/design/DAFl3sMxaO8/nlPZn9vRw2X9J38uynP2wg/edit?utm_content=DAFl3sMxaO8&utm_campaign=designshare&utm_medium=link2&utm_source=sharebutton

Mentoring Remark(s), if any:

- Focus on the main features first