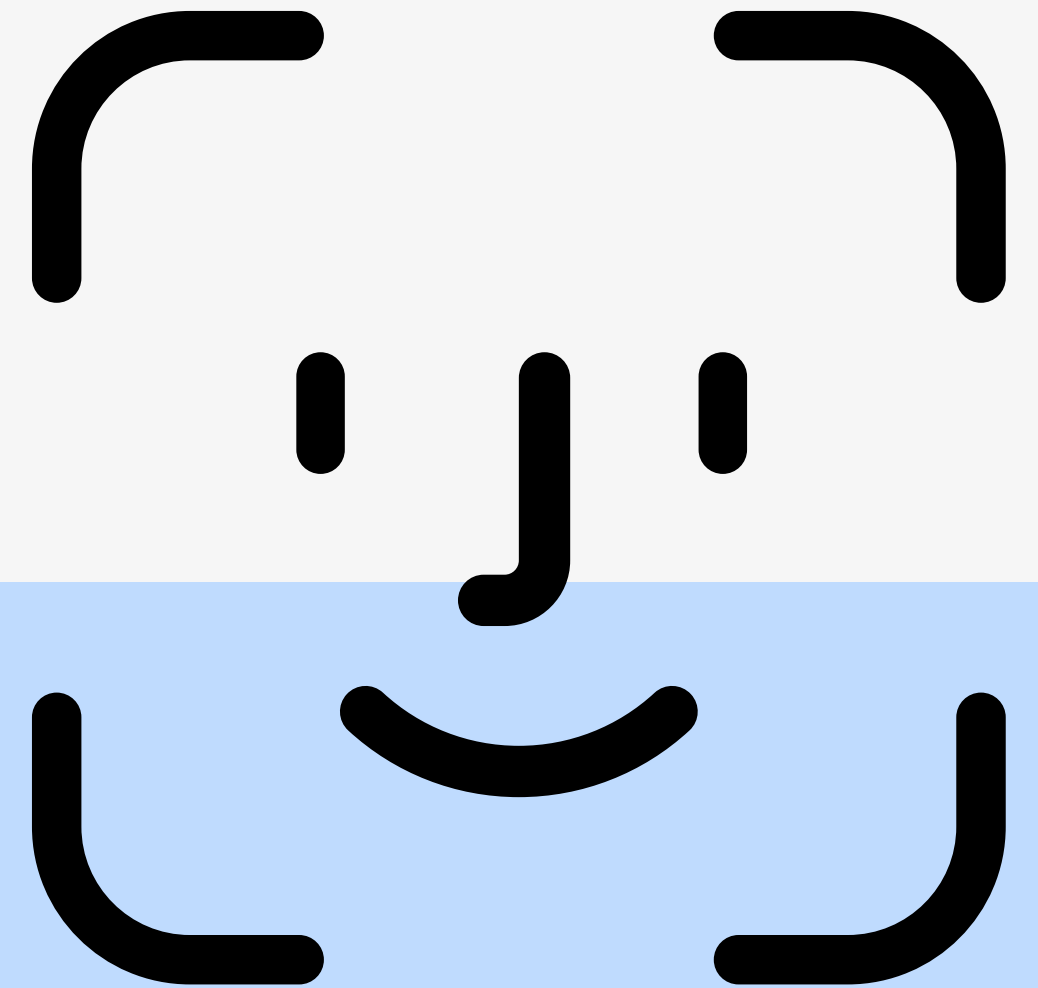Paras helps to track your facial treatment, diagnose your facial skin problem, give advice for a healthy lifestyle, and recommend related beauty products.
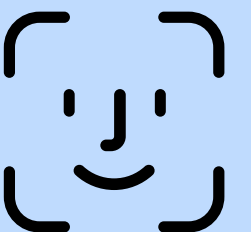
PARAS

YOUR FACIAL SKIN ADVICER

The Team

Abid Ammar Mahdy
Machine Learning Developer

Abrar Dwi Fairuz Nadhif
Machine Learning Developer

Aditya Aulia Al-Azizi
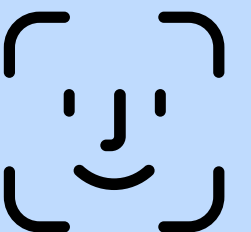Machine Learning Developer

The Team

Ega Prabu Pamungkas
Cloud Engineer

Kristianto Wijaya Theofilus
Android Developer

Nicholas Yavin
Android Developer

Problem Statement
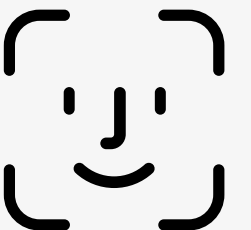
Money

Isn't always about skincare it is just a healthy lifestyle.

Knowledge is Everything

Lack of assistance in the healing process.

Flexible Continous Care

Teenager are the most productive age, they have limited time.

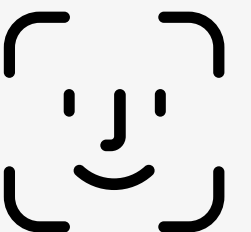# Initial Solution

Diagnose Your Problem Accurately

You can early diagnose your facial skin problem just with your photos.

It's about The Progress not Destination

Our History feature helps you to track your facial treatment progress.

Consult with Our Personal Assistance and Expert

We collaborate our AI with the Expert. Share your problem and we'll help.
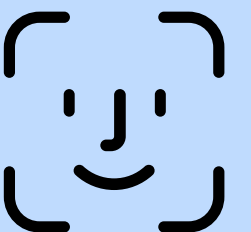
Target Market

Millenials and Gen Z

Teenagers 15 - 35 years old who care a lot about their appearance

General User

Another user who wants to use our treatment app

Competitors
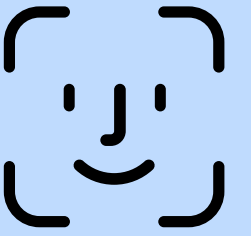
Online Consultation

Buy Product

Health Tips and Information

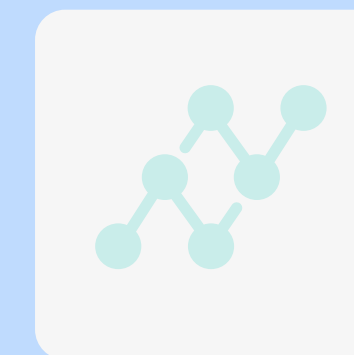General Health App

Hospital Booking

Paras

Online Consultation

Buy Product

Health Tips and Information

Face Health App

Treatment History

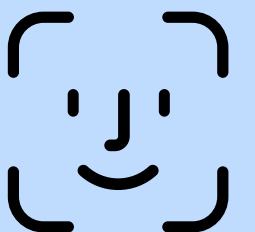# Android Implementation

User register with email address and fill the profile later
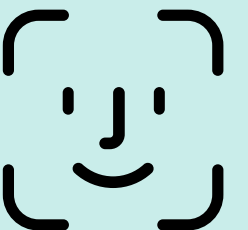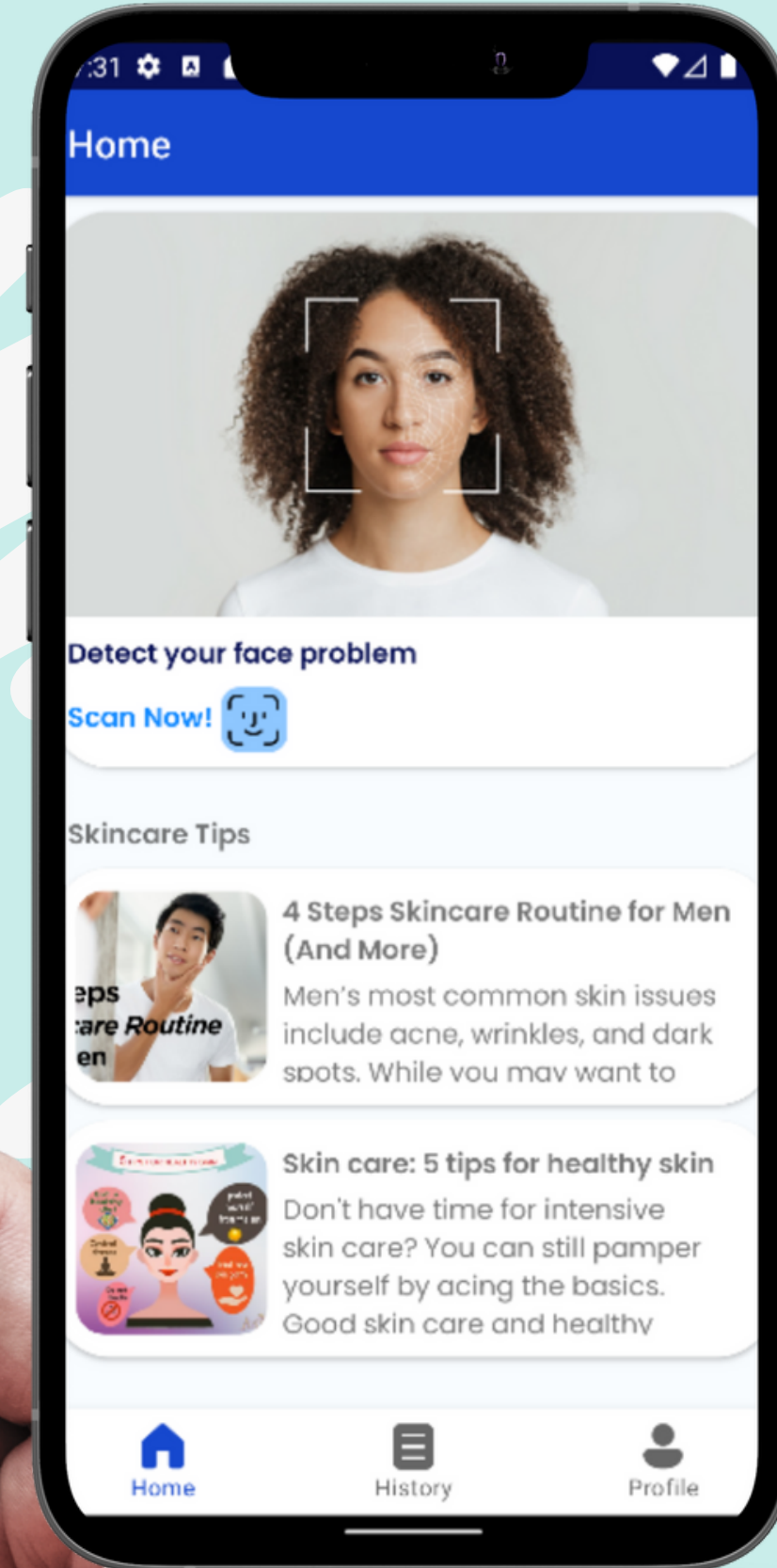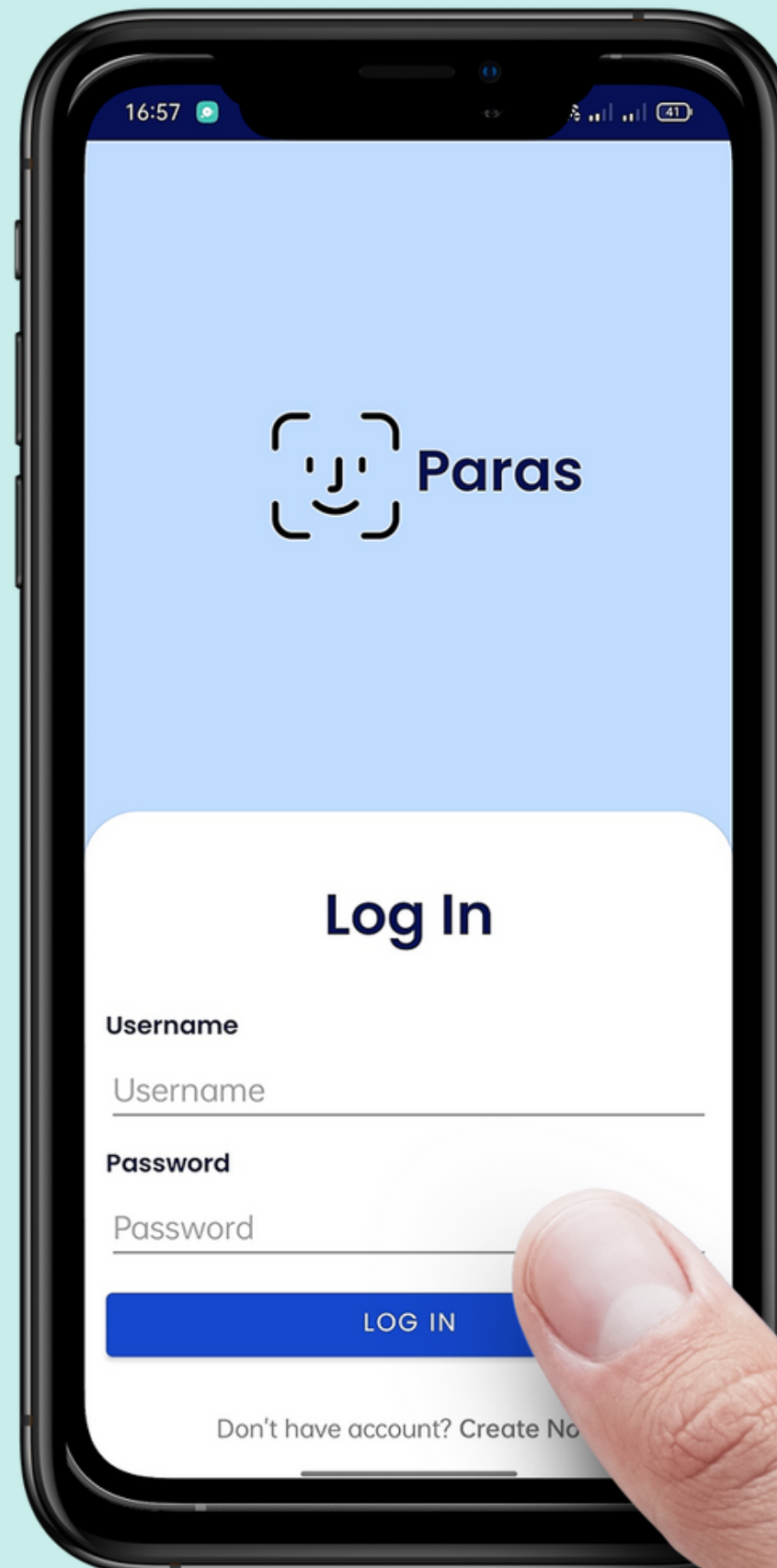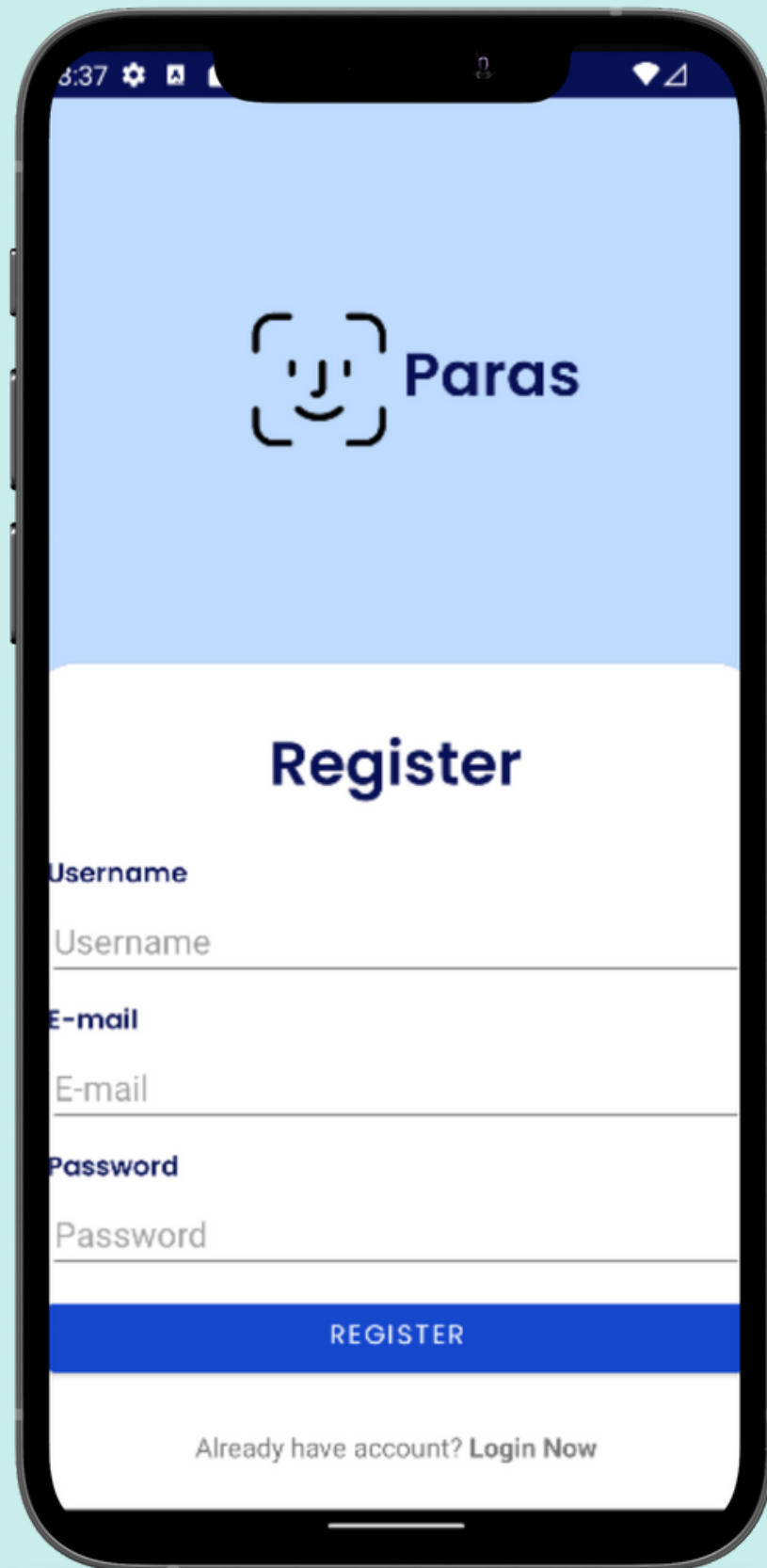
User can scan the face using camera or gallery
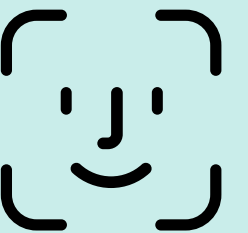
User can check the history after scan the face

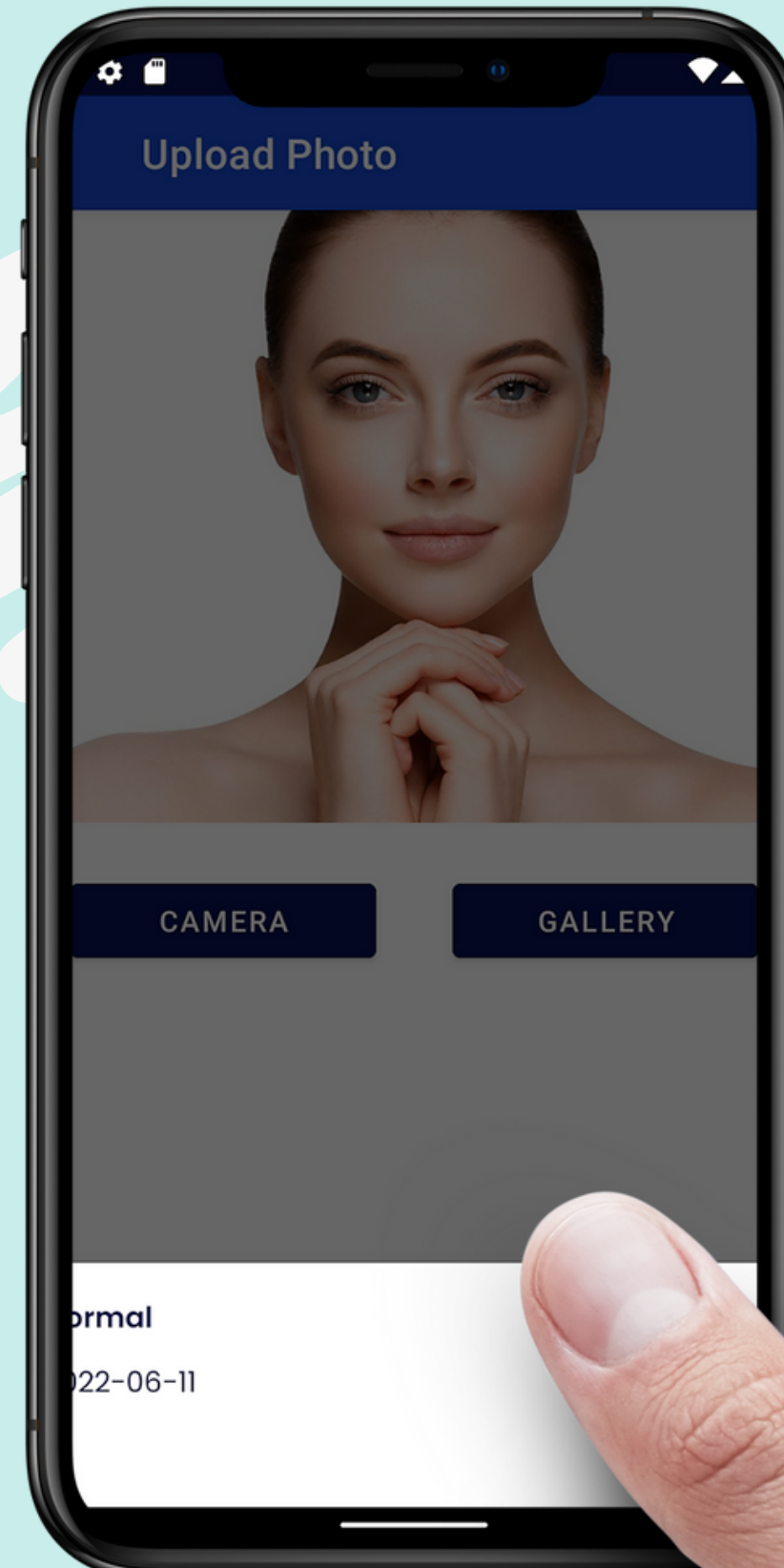We provide some tips to keep your face healthy

RESULTS

RESULTS

RESULTS
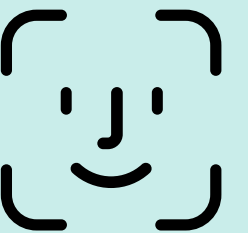
CLOUD IMPLEMENTATION
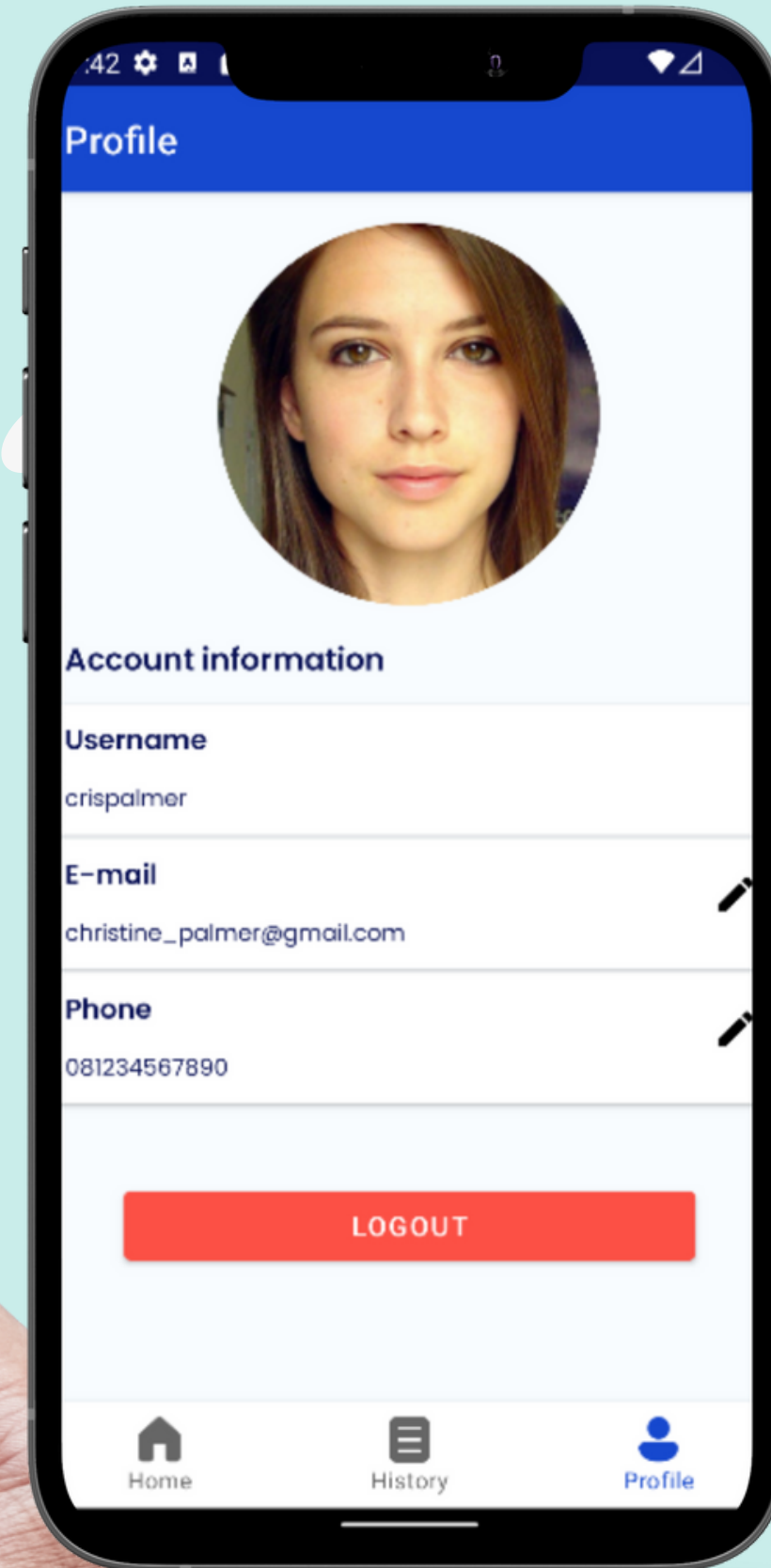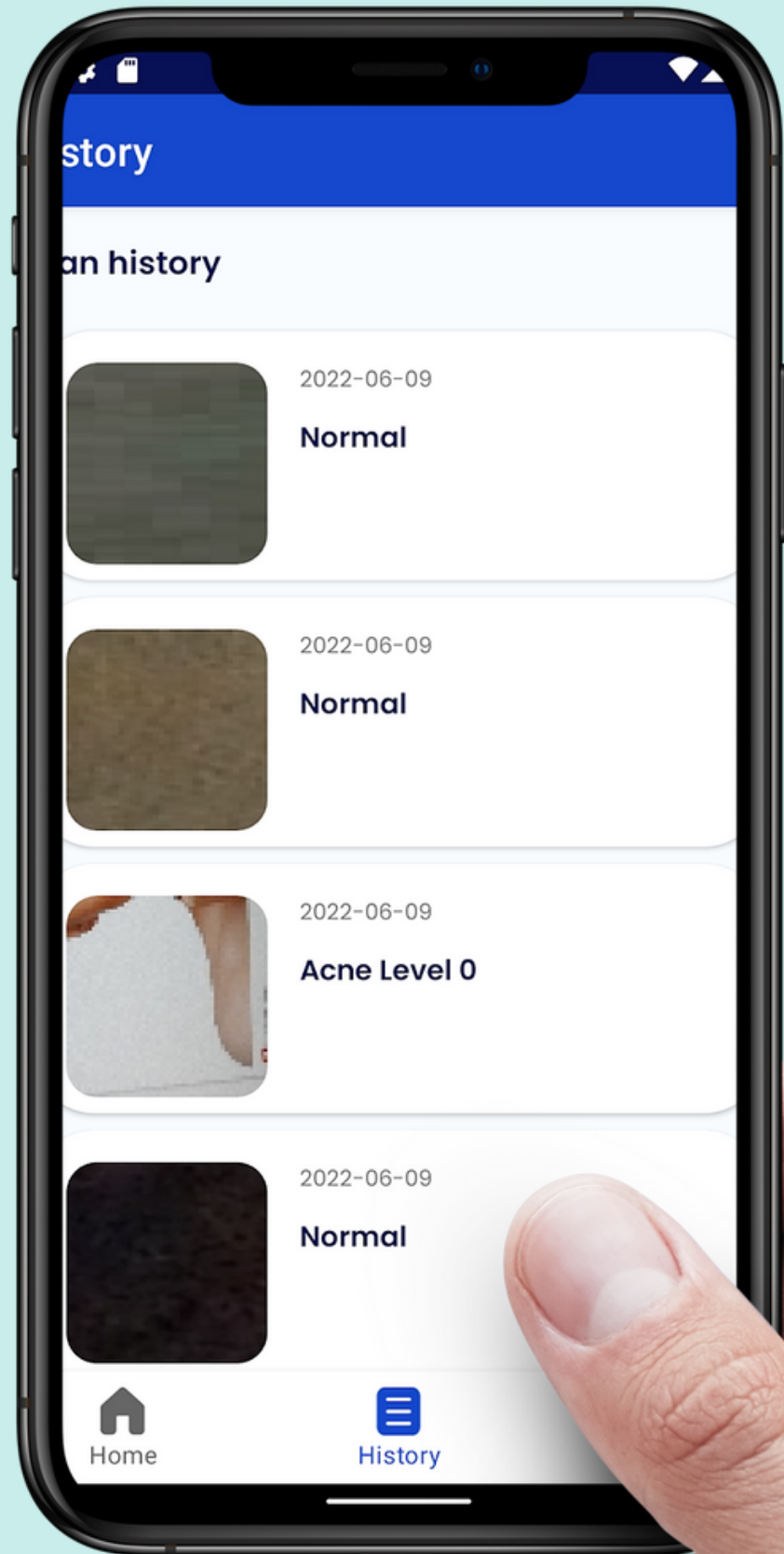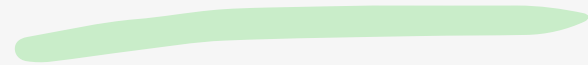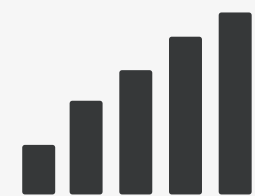
Cloud Run and Cloud Build for serverless deployment

Cloud Firestore has high uptime globally
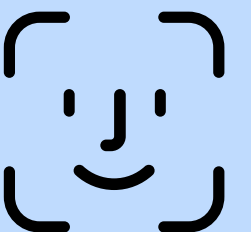
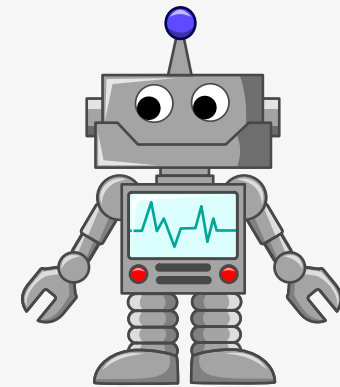Cloud Storage for deploying model and images

Budget alerts and logging for services

Machine Learning Implementation

Face Detection

Detect the face position from the user image

Dataset

CelebFaces Attribute

Facial Skin Diseases Classification
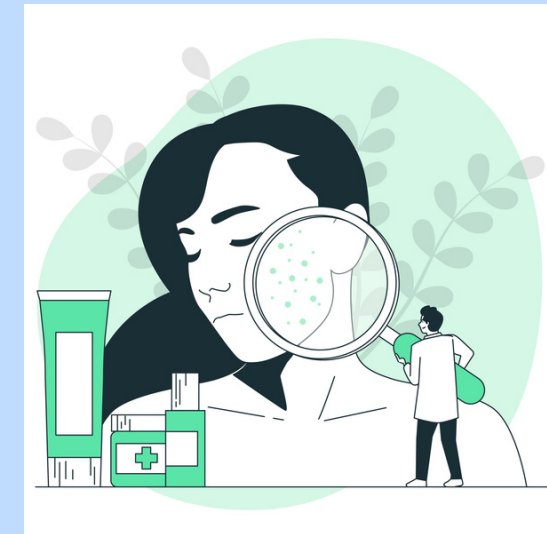
Detect whether there is facial skin disease on user face

Dataset

kaggle/Acne grading classificationdataset
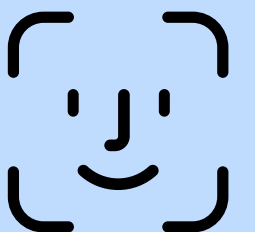
Machine Learning Implementation
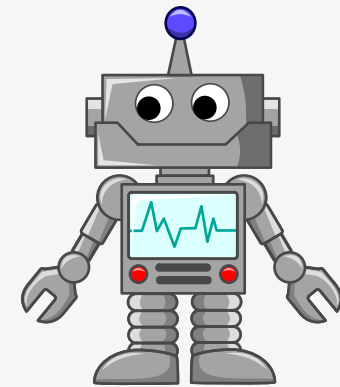
Face Detection

Model

Transfer learning with MobileNetv3 small with 2 outputs

Facial Skin Diseases Classification

Model

Transfer learning with MobileNetV2 with 2 input and 1 output
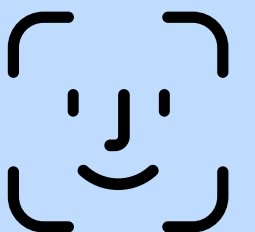
Result

Baseline Face Detection Model

Freeze Layer

Fine-Tune

Improvement

Improving Face Detection Model

Freeze Layer

Fine-Tune

Result

Facial Skin Diseases Classification Model
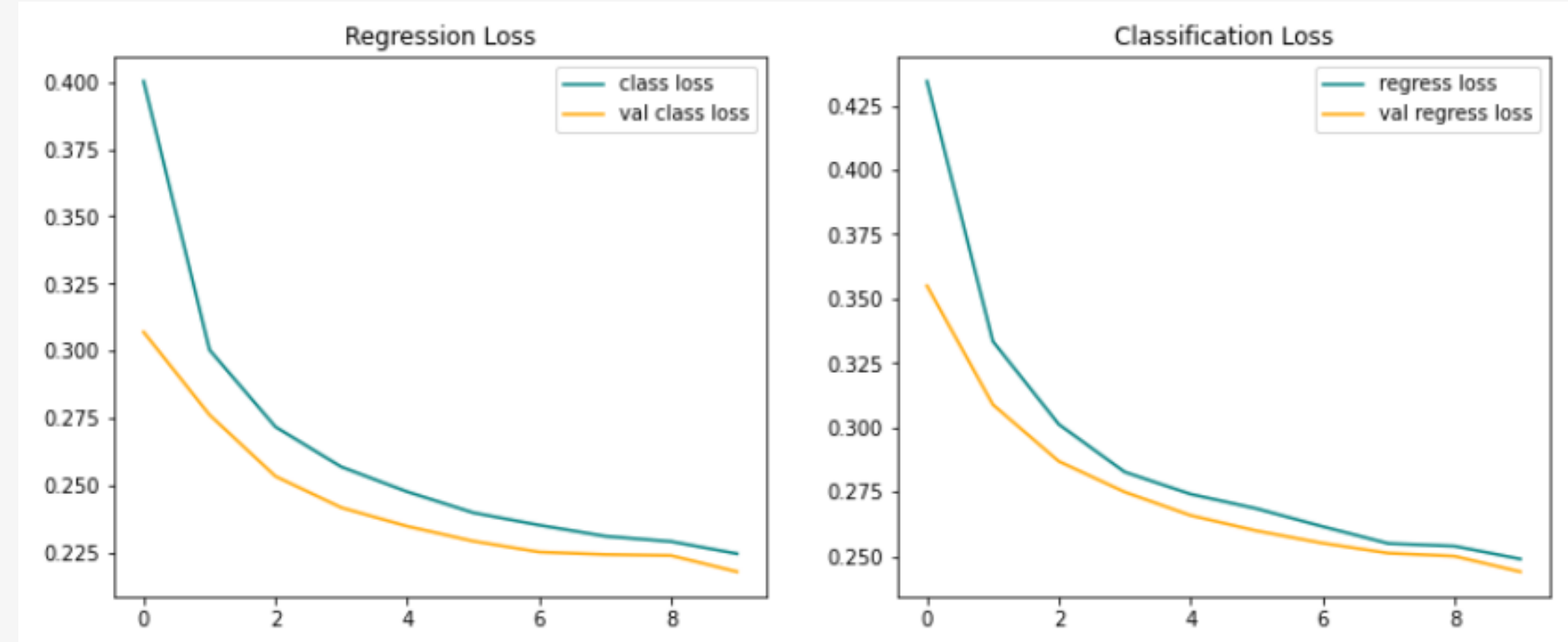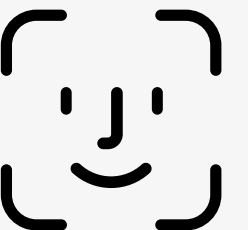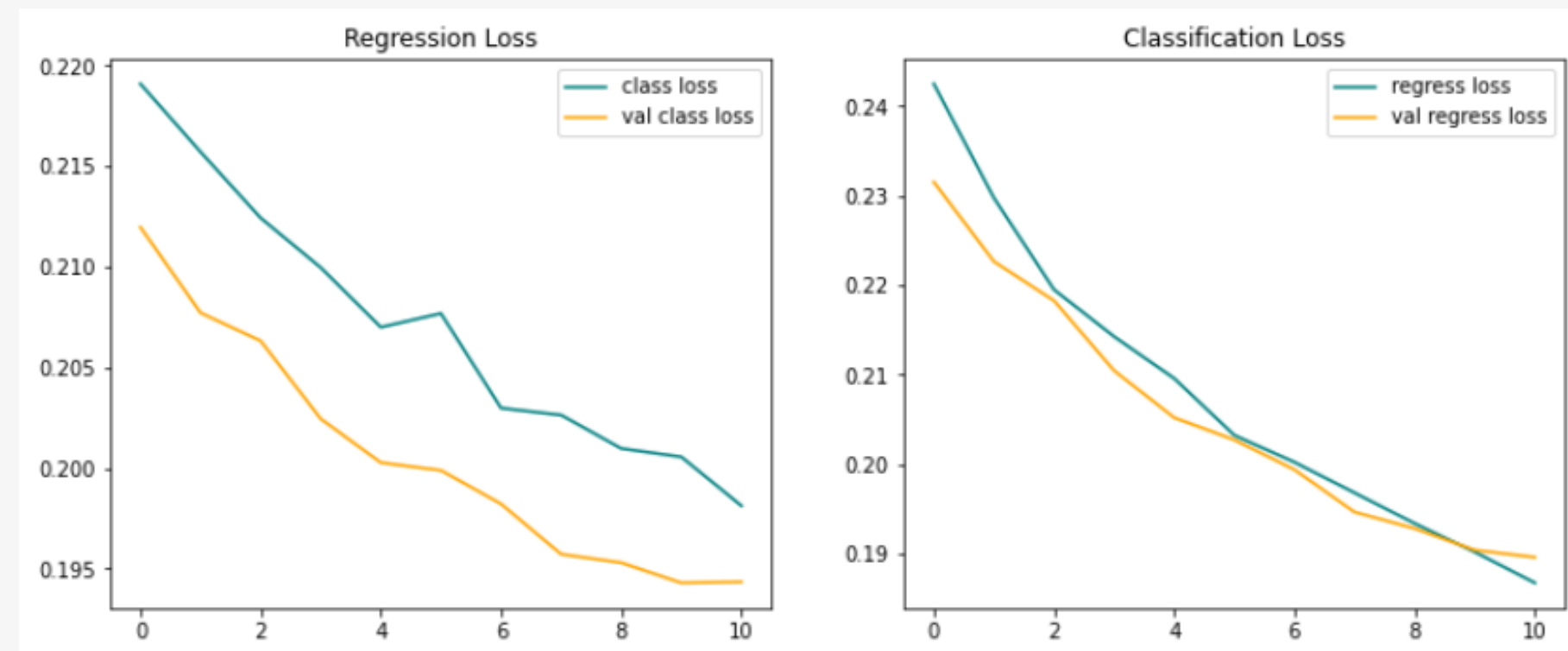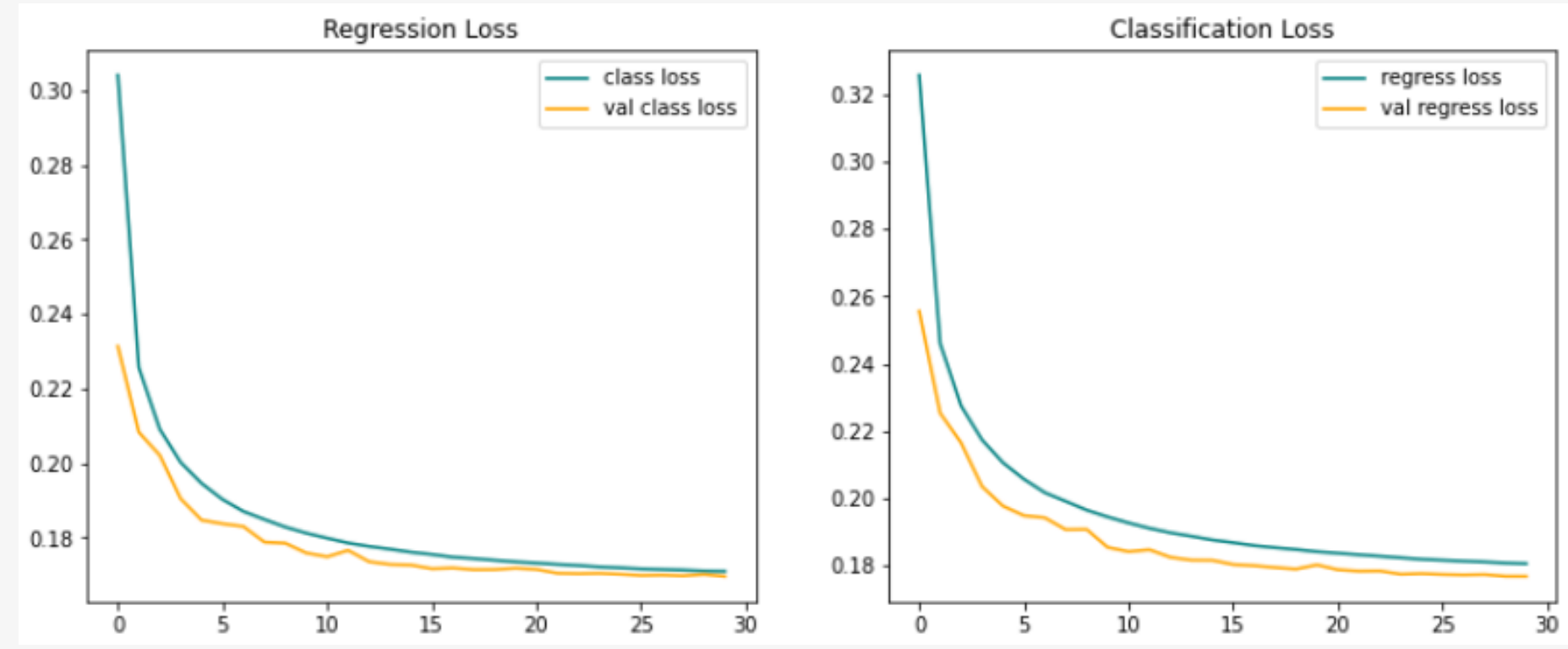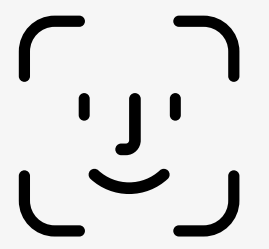
Freeze Layer

Improvement

Improving Facial
Skin Diseases
Classification Model
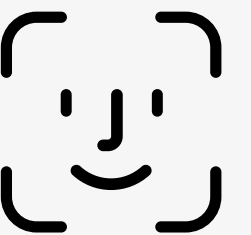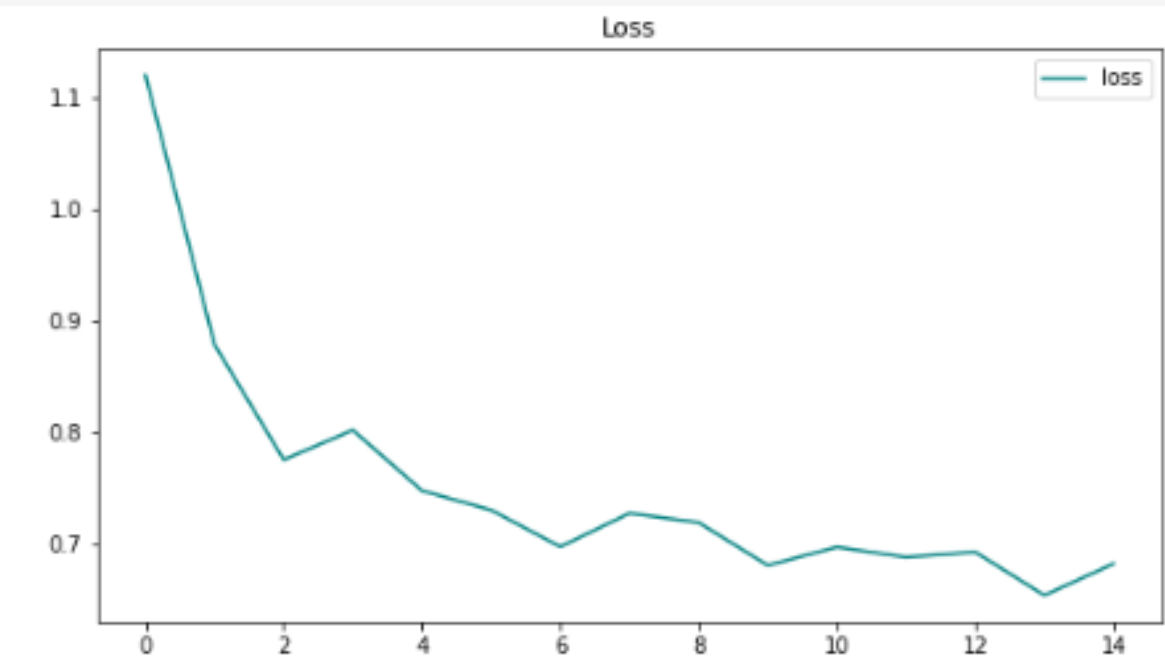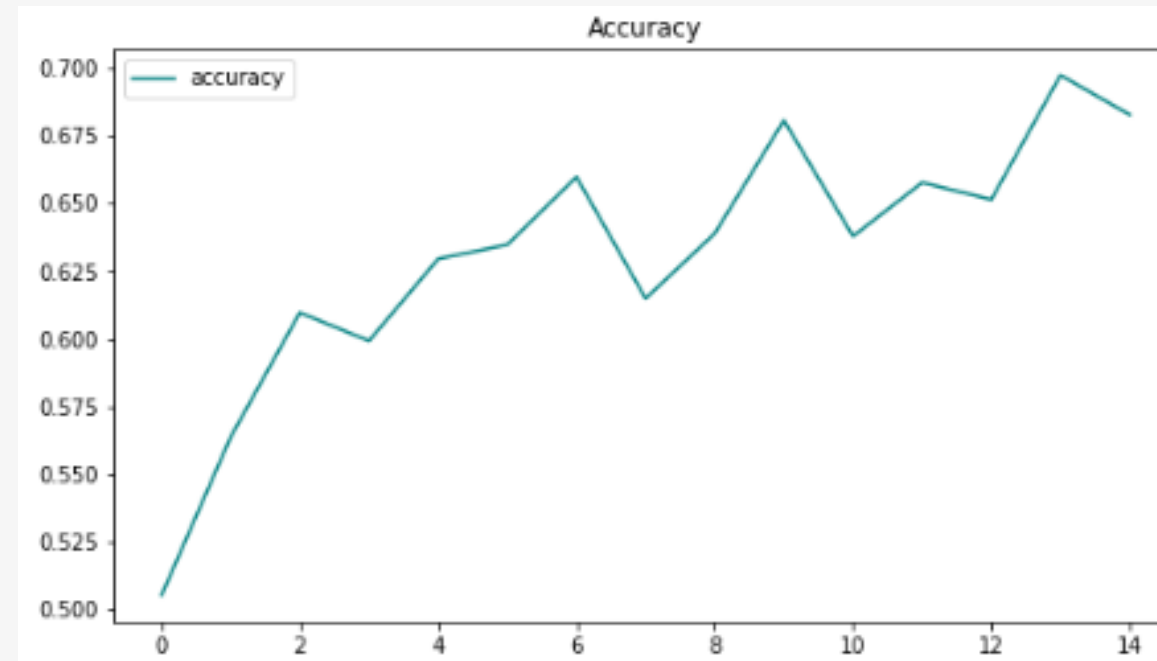
Edge Detection

Image + Edge Detection

Result

Face Detection
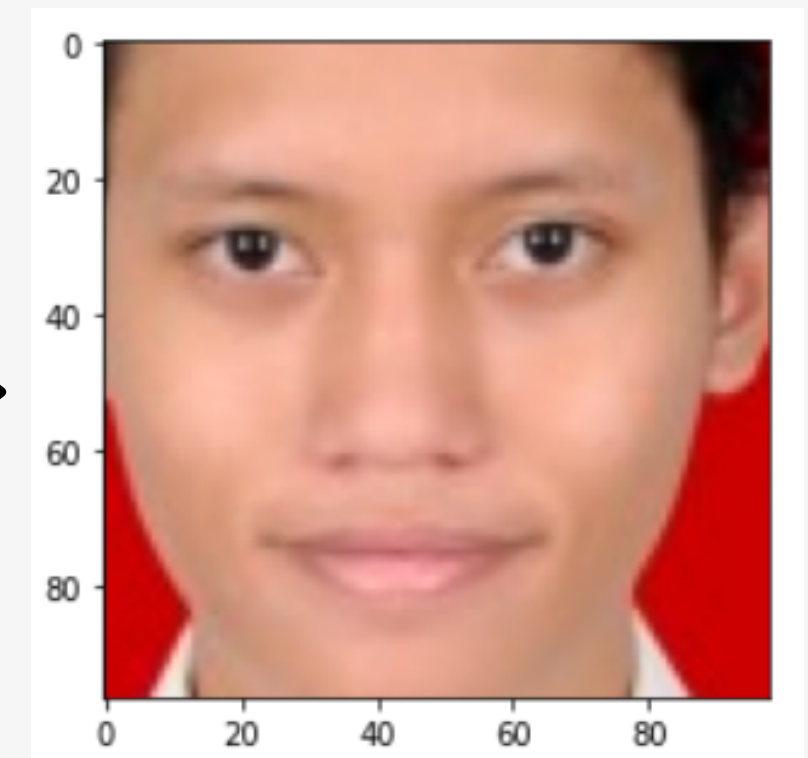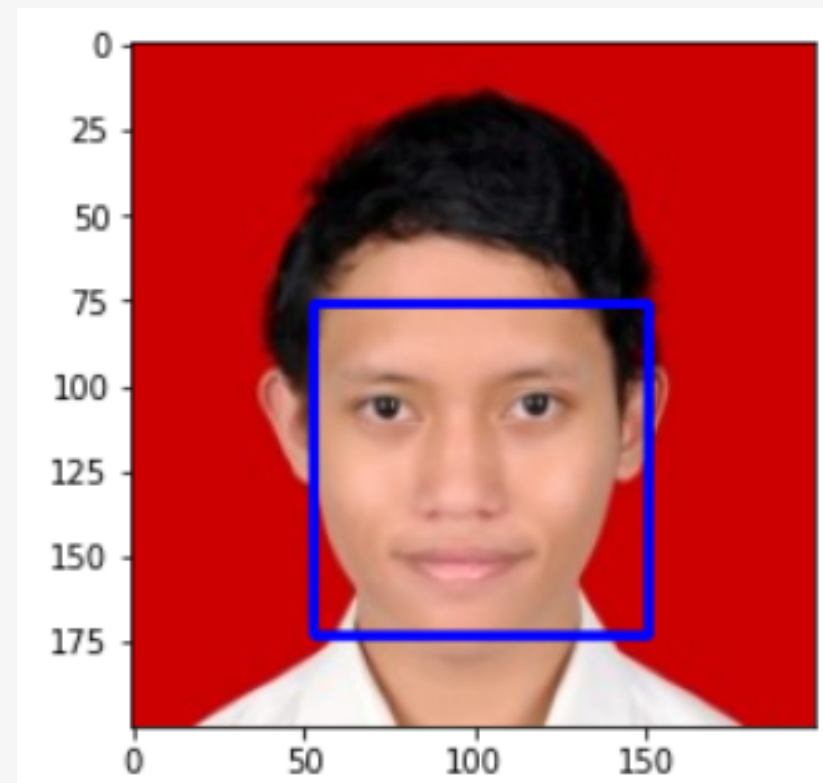

```
[array([[0.99891734]], dtype=float32),
 array([[0.26713032, 0.38098302, 0.75979733, 0.8683231 ]], dtype=float32)]
```
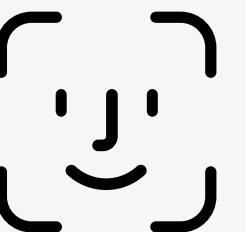
Result

Facial Skin Diseases Classification Model
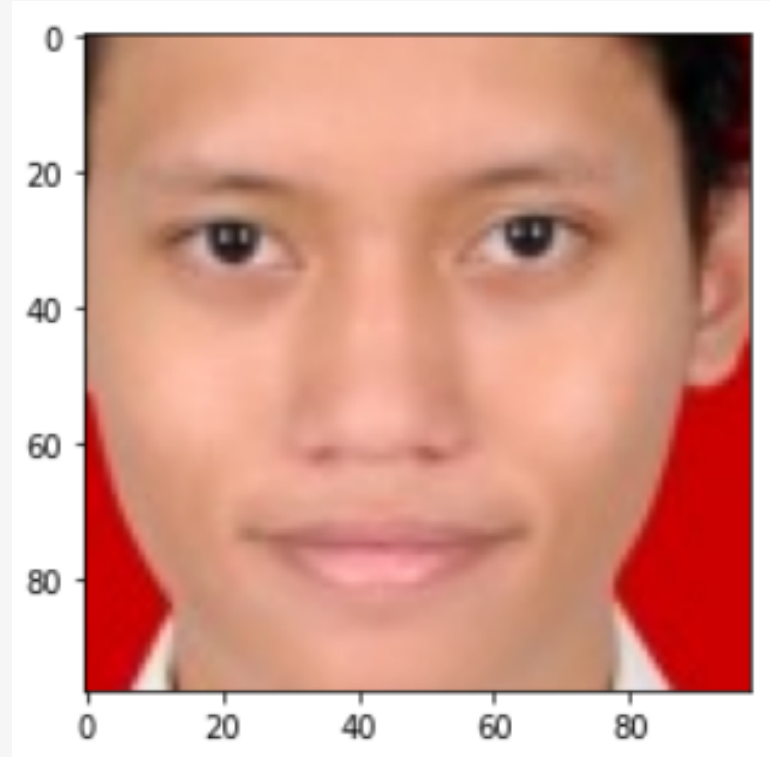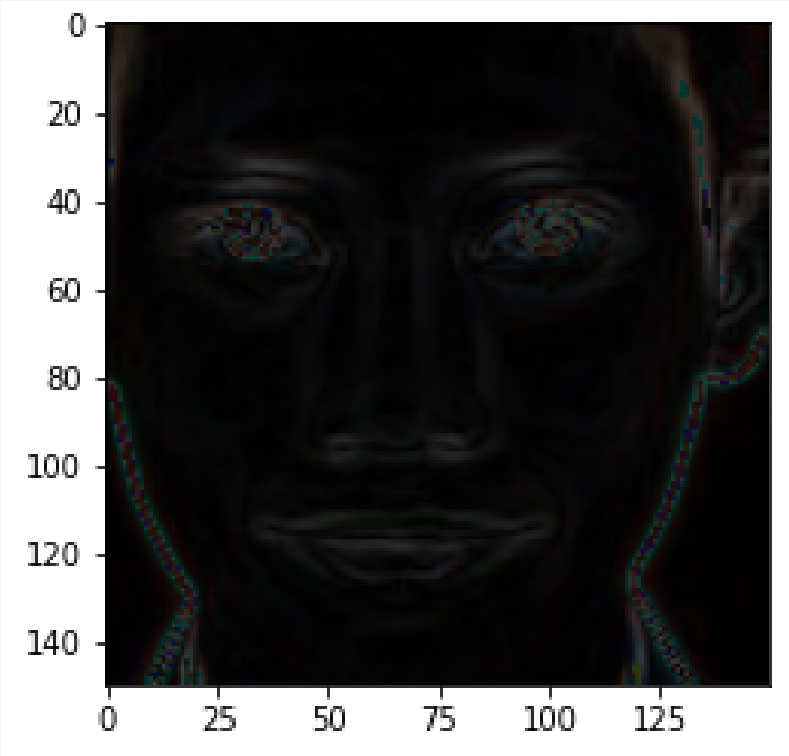
label = ['acne level 0', 'acne level 1', 'acne level 2', 'normal']

+

⟶ normal

array([[0.2985379 , 0.00136719, 0.00565832, 0.6944366]], dtype=float32)
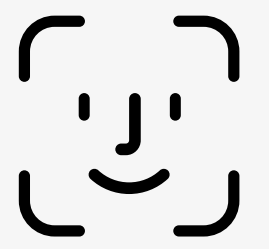
Our Next Plan

Product Recomendation

Pick the best product based on other user reviews and budget

Personal Assistance

Help early advice for your related facial skin problems.

Expert Consultation

This feature helps users to consult with an expert virtually.

More Facial Problem Detection

We'll add another detection
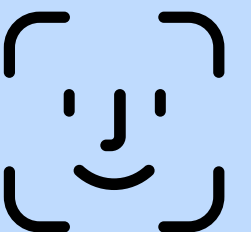
PARAS

Roadmap →
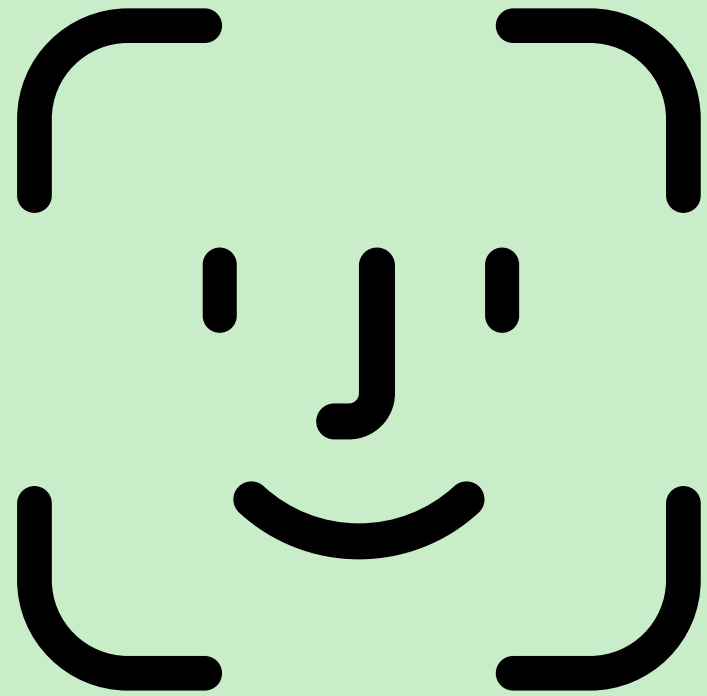
What we wil accomplish each month until the end of the year

Product Recommendation

1

July

Personal Assistance

2

August

Expert Consultation

3

October

More Facial Problem Detection

4

December

Documentations

PARAS Github:

https://github.com/feratyusa/paras-capstone-bangkit-2022

How to Use PARAS
to scan your face

1. Login or Register first.
2. Click "Scan Now" button to start scanning your face.
3. Either choose to upload an image of your face from gallery or take a photo of your face.
4. Make sure your whole face is visible
5. Click upload and wait for the result.
6. On the History page, you can see recent or past scan and see the progress of your face everytime you scan.
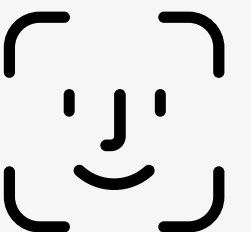
Local Plan Deployment

Timeline	Activities	Budget
July	Testing prototypes to partner and user candidate	$200
August	Improving product from feedback testing prototypes	$800
September	Release beta version to public	$400
Oktober	Evaluate the product and find investor	$600
November	Product release and penetrate to market by advertising	$2,000
Desember	Next development by feedback and research a new features	$1,000
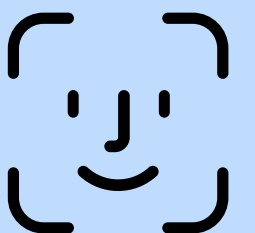
Budgeting 1

Category	Proportions (max)	Budget (max) in USD
Team Salary	30%	$1.500 / Rp 23.000.000
Research / Operational 1. Buying/renting things, 2. Prototyping, 3. Infrastructure & Testing 4. Learning/capacity building, 5. Survey/FGD/data collections 6. Transportation expenses 7. Additional salary for external experts, observer, respondents 8. Productions preparations, tooling 9. Legalities, patent/copyright registration, product certification	100% 15% 5% 5% 10% 5% 5% 30% 20% 5%	$5.000 / Rp 70.000.000 $750 / Rp 10.500.000 $250 / Rp 3.500.000 $250 / Rp 3.500.000 $500 / Rp 7.000.000 $250 / Rp 3.500.000 $250 / Rp 3.500.000 $1500 / Rp 21.000.000 $1000 / Rp 14.000.000 $250 / Rp 3.500.000
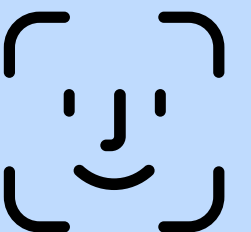
Budgeting 2

Category	Proportions (max)	Budget (max) in USD
All aspects covered in Budgeting - 1	50%	$5.000
Additional Budget for Team Salary	15%	$1.500
Additional Budget for Research/Ops	15%	$1.500
Marketing and Sales	20%	$2.000
Market research and competitive analysis	15%	$1.500
Future Development / R&D	20%	$2.000
Other Expenses (taxes, reserves)	10%	$1.000

SUSTAINABILTY

Target Market 1

What are their profiles and visual personas?

Target Market 2

Visualize the people who will turn to you for solutions.
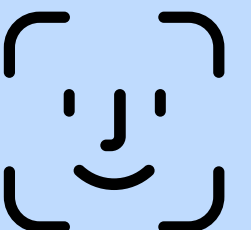
Who are the customers you want to cater to?

THANK YOU

Bangkit 2022

Made with

❤️