



Team 8



Advanced skin Disease Diagnosis





INTRODUCTION

Image-Based Diagnosis: The Advanced Skin Diagnosis System analyzes uploaded images of skin conditions to identify potential skin diseases.

Comprehensive Disease Detection: The system is capable of identifying a wide range of skin conditions, from common issues like acne to more complex dermatological diseases.

Specialization and areas of expertise , Instant Feedback: Users receive real-time results and recommendations based on the analysis, providing quick insights into potential skin concerns and facilitating early treatment.

PROJECT OVERVIEW / CUSTOMER FEATURES

- **Create:** Allows new users to register and set up their profile for accessing the skin diagnosis system.
- **Login:** Provides secure access to the system for registered users to utilize diagnostic features.
- **Input Page:** Enables users to upload an image of their skin condition for analysis.
- **View Page:** Displays the diagnostic results and detailed information about the detected skin condition.

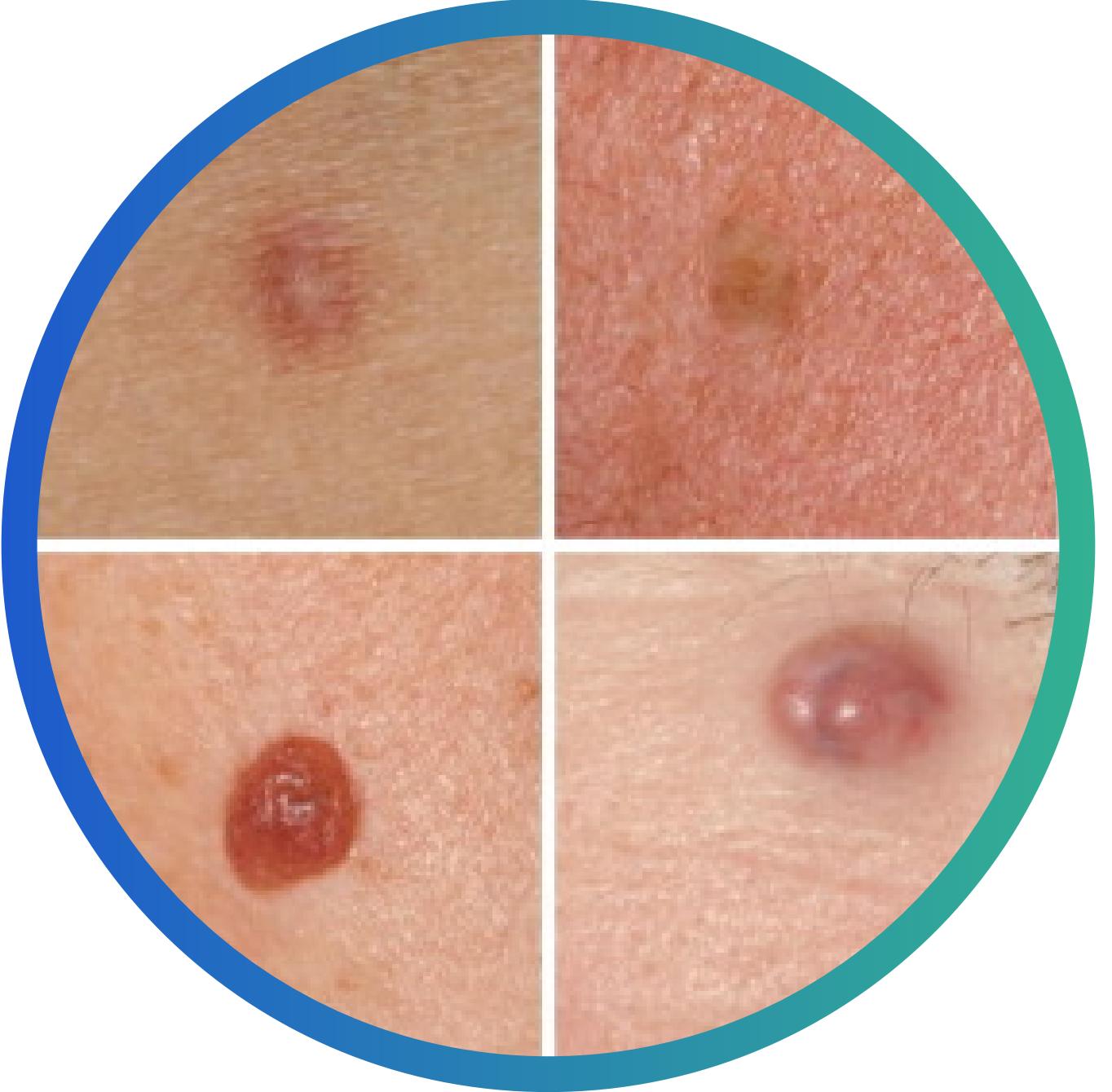




MILESTONES

- Implemented an authentication feature in Django that includes home pauser login, sign-up, and profile management. The login and sign-up pages allow users to securely create and access their accounts. Once authenticated, users can access a personalized home and profile page.
- OpenCV was utilized to process and analyze images of skin diseases, helping to identify specific patterns and features. This enables the accurate diagnosis of different skin conditions.





MILESTONES



- **Implementing the UI to read an image from user, process that image with opencv to calculate the dimensions of the skin disease area back to UI**
 - **Leveraged pre-trained data to build a disease detection model. Different models were analyzed to identify the most suitable one. The selected model is used to process uploaded images. It accurately identifies the detected disease.**
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HOME PAGE/ LOGIN PAGE

Welcome to Skin Disease Diagnosis Page!

Welcome!

Quickly diagnose common skin conditions with our platform. Login or Signup to get started!

Login

Sign Up

© 2024 Skin Diagnosis System. All rights reserved.

Welcome Back! Please Sign In

Sign in

Username:

saloni@123

Password:

.....|

Continue

OR



Don't have an account? [Sign up](#)

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REGISTRATION PAGE / PROFILE PAGE

Sign-up to Skin Disease Diagnosis Page!

Sign Up

Username:

kanikarajput

Password:

.....

Password confirmation:

.....|

Sign Up

Already have an account? [Login](#)

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Skin Disease Finding Web App

Welcome!

Image Upload:

Choose File disease1.jpg

Submit

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CALCULATED DIMENSIONS OF SKIN DISEASE

Skin Disease Finding Web App

Uploaded Image:



Processed Image with
Detected Area:



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Skin Disease Finding Web App

Dimensions of Detected Disease

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 [0.08627451 0.09411765 0.1254902 ]
 [0.09411765 0.10196078 0.13333333] ...
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Skin Disease Finding Web App

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IMAGE UPLOAD / OUTPUT PAGE



Skin Disease Finding Web App

Welcome!

Image Upload:

Choose File ringworm.jpg

Skin Disease Result:

Skin Disease Diagnosis:

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Skin Disease Finding Web App

Welcome!

Image Upload:

Choose File No file chosen



Skin Disease Result: FU-ringworm

Skin Disease Diagnosis: FU-ringworm

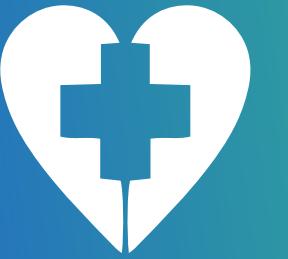




CONCLUSION



The "Advanced Skin Diagnosis leveraging image processing" system harnesses the power of OpenCV and Django (a python framework) to analyze and diagnose skin conditions from images. By accurately detecting key features and patterns in skin images, the system offers an efficient and reliable method for identifying various skin diseases. This innovative approach enhances early detection, enabling users to receive timely insights and recommendations for treatment.





TEAM MEMBERS

Team 8:

- **Kanika Rajput**
- **Sathi Lakshmi Narayana Reddy**
- **Shaik Shariya**





Thank You

