



SKIN DISEASE DIAGNOSIS

A WEB-BASED MEDICAL DIAGNOSTIC PLATFORM



INTRODUCTION

- Skin Disease Diagnosis is a web application designed to help users identify and understand various skin conditions.
- It aims to provide early detection insights and preliminary guidance to support users in managing their skin-related health concerns effectively.
- It acts as bridge between patients and professional medical advice



PROJECT OVERVIEW



- User Registration and Authentication
- Secure Personal Profile
- Image Upload Capability for Skin Condition Analysis
- User-friendly Interface

MILESTONE



01

The system enables users to create accounts, sign in, and confirm their email addresses, with features for password recovery and security protocols in place to safeguard user information.

02

The platform allows users to upload images, manage their profiles, and connects seamlessly with the Django backend, leveraging OpenCV for precise skin condition detection.

03

Implemented functionality to read user-provided images and process them using OpenCV to calculate the dimensions of the skin disease area in UI back.

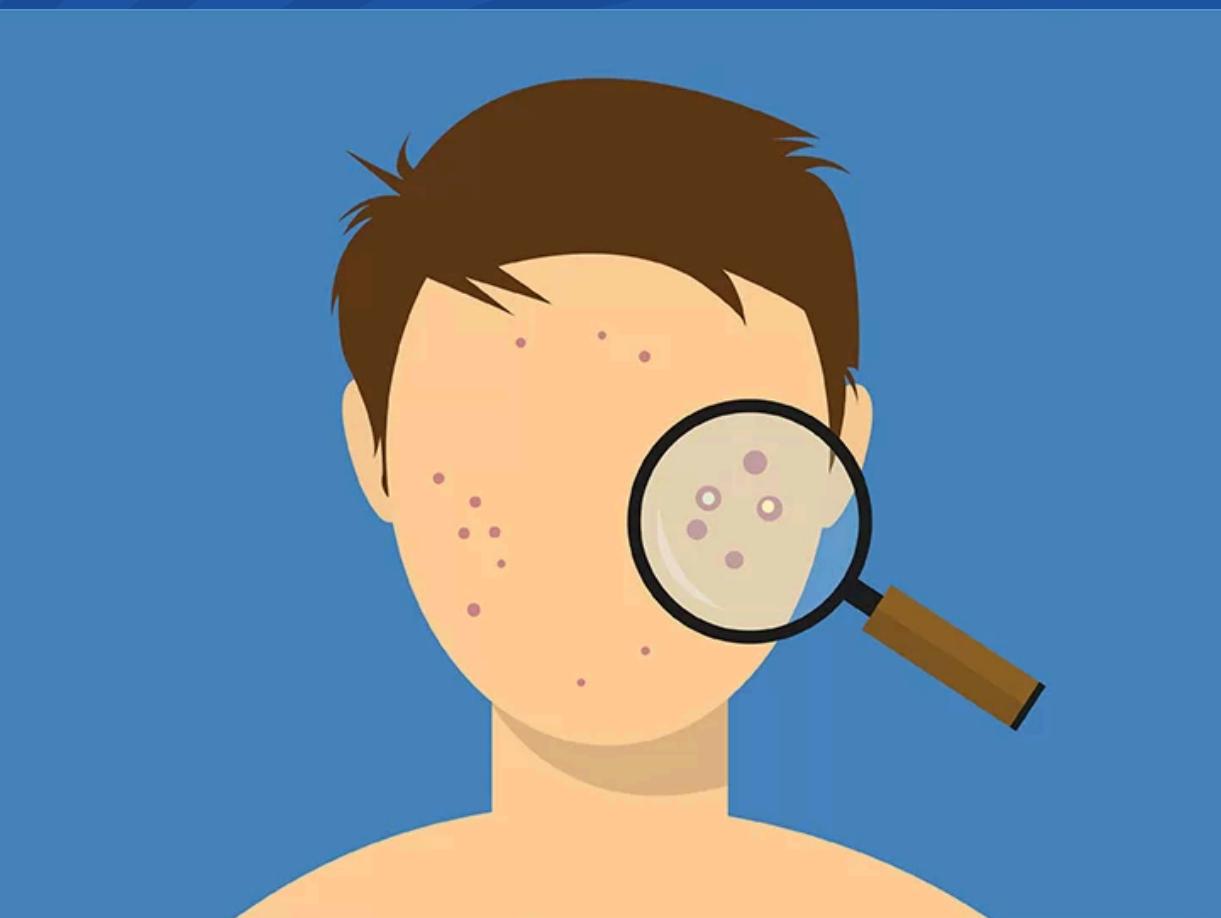
04

Implemented a feature on the profile page to detect skin diseases from uploaded images using AI models. The system displays the disease name and provides treatment recommendations.



HOME PAGE

- Clean and professional Interface
- Welcome message and Introduction
- Sign in and Sign up pages

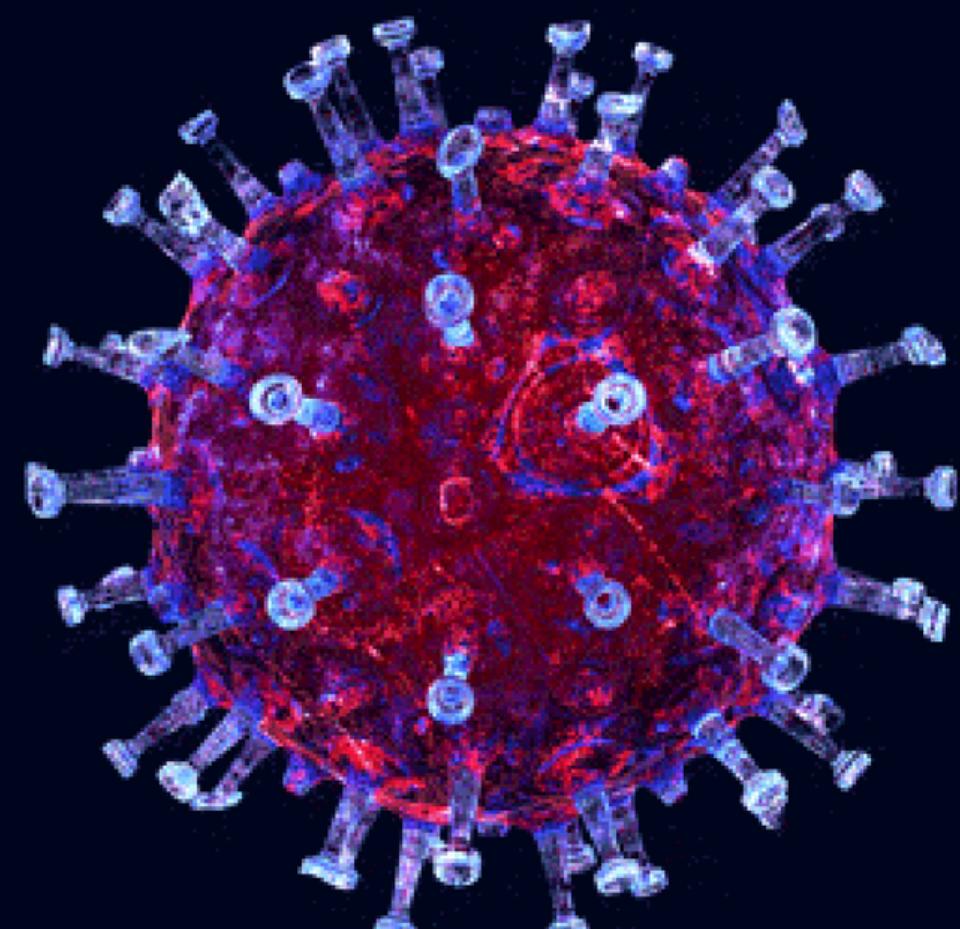


Home Untitled Untitled + ...

Skin Diagnosis Revolutionized by Imaging Technology

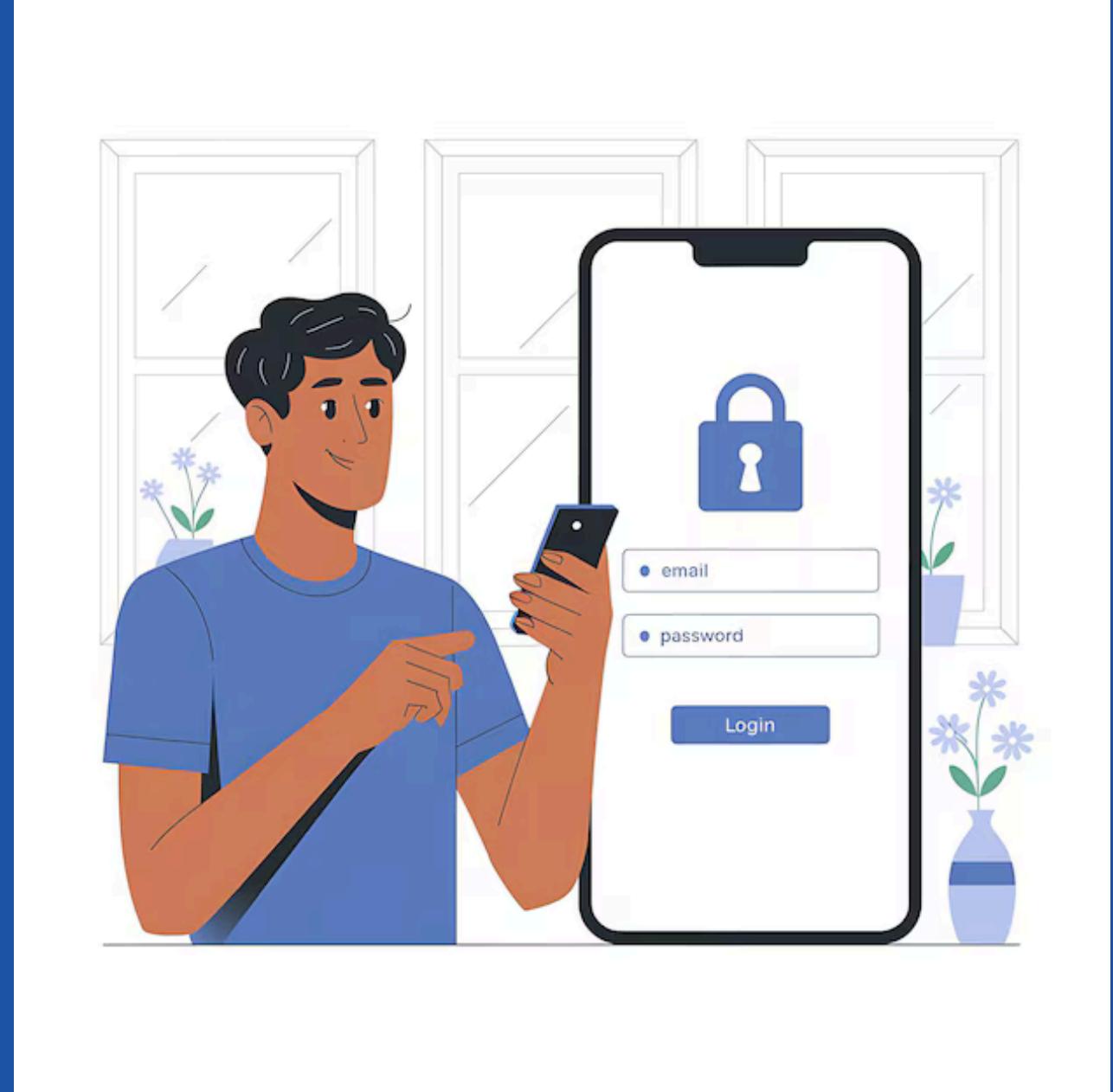
Advanced image processing is transforming dermatology, enhancing the accuracy and speed of skin disease diagnosis for better patient outcomes

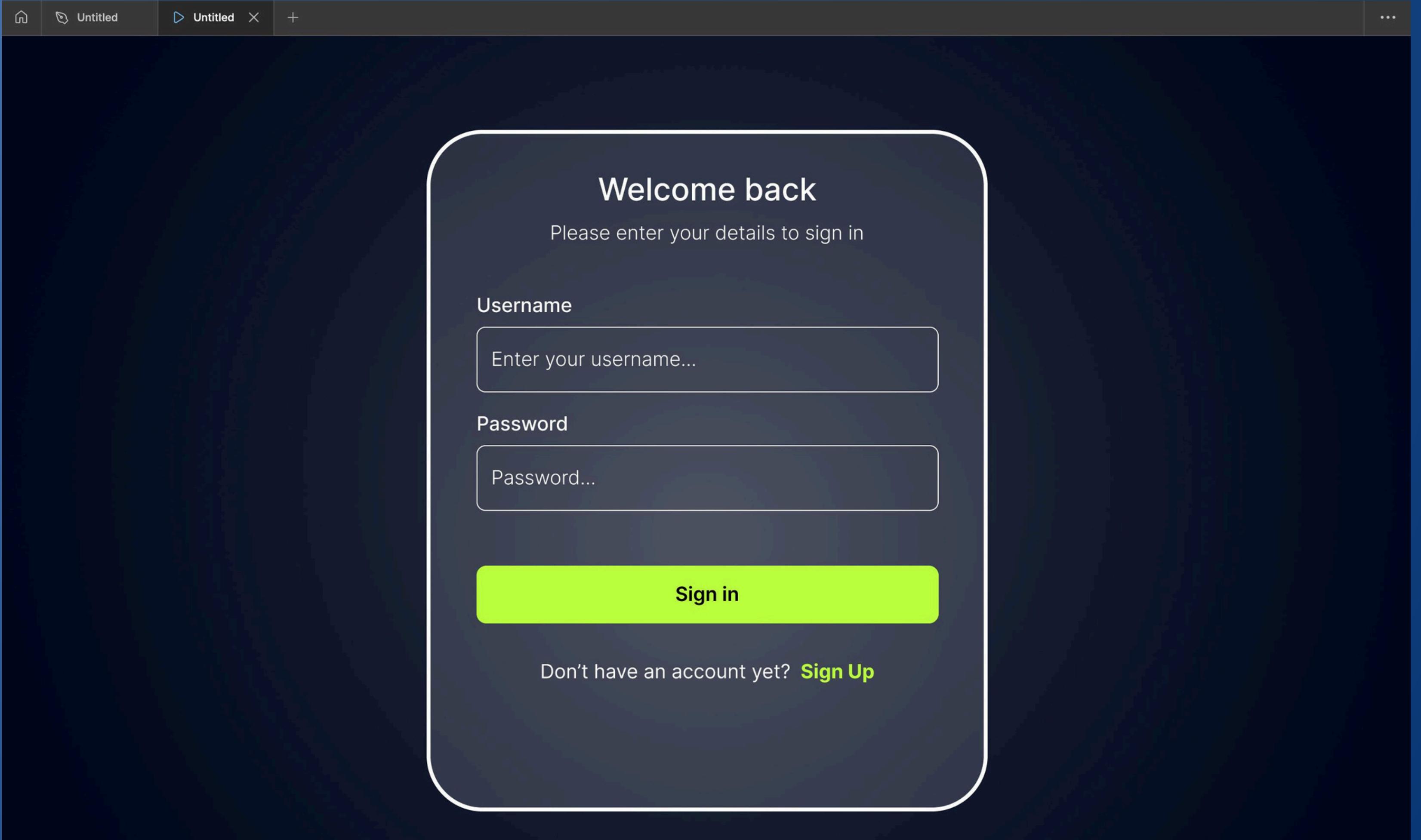
[Login](#) [Register](#)



LOGIN PAGE

- User authentication interface
- Secure login form
- Professional design
- Error handling capability





Welcome back

Please enter your details to sign in

Username

Enter your username...

Password

Password...

Sign in

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

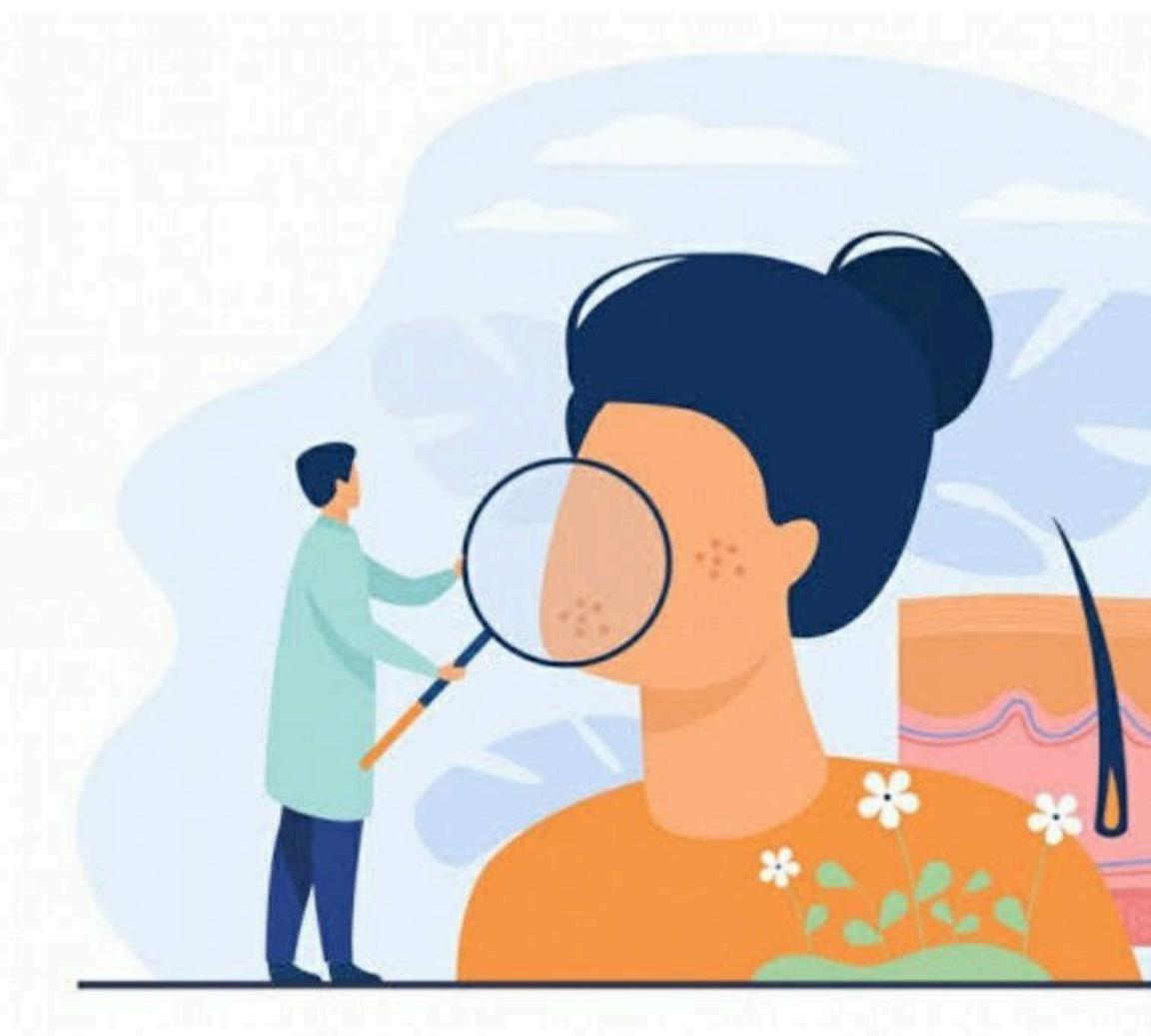
Registration Page



01 User register form

02 Data validation

03 Security features



Create an account

Get started with your skin disease diagnosis in seconds.

Username

Enter your username...

Password

Enter your password

Confirm Password

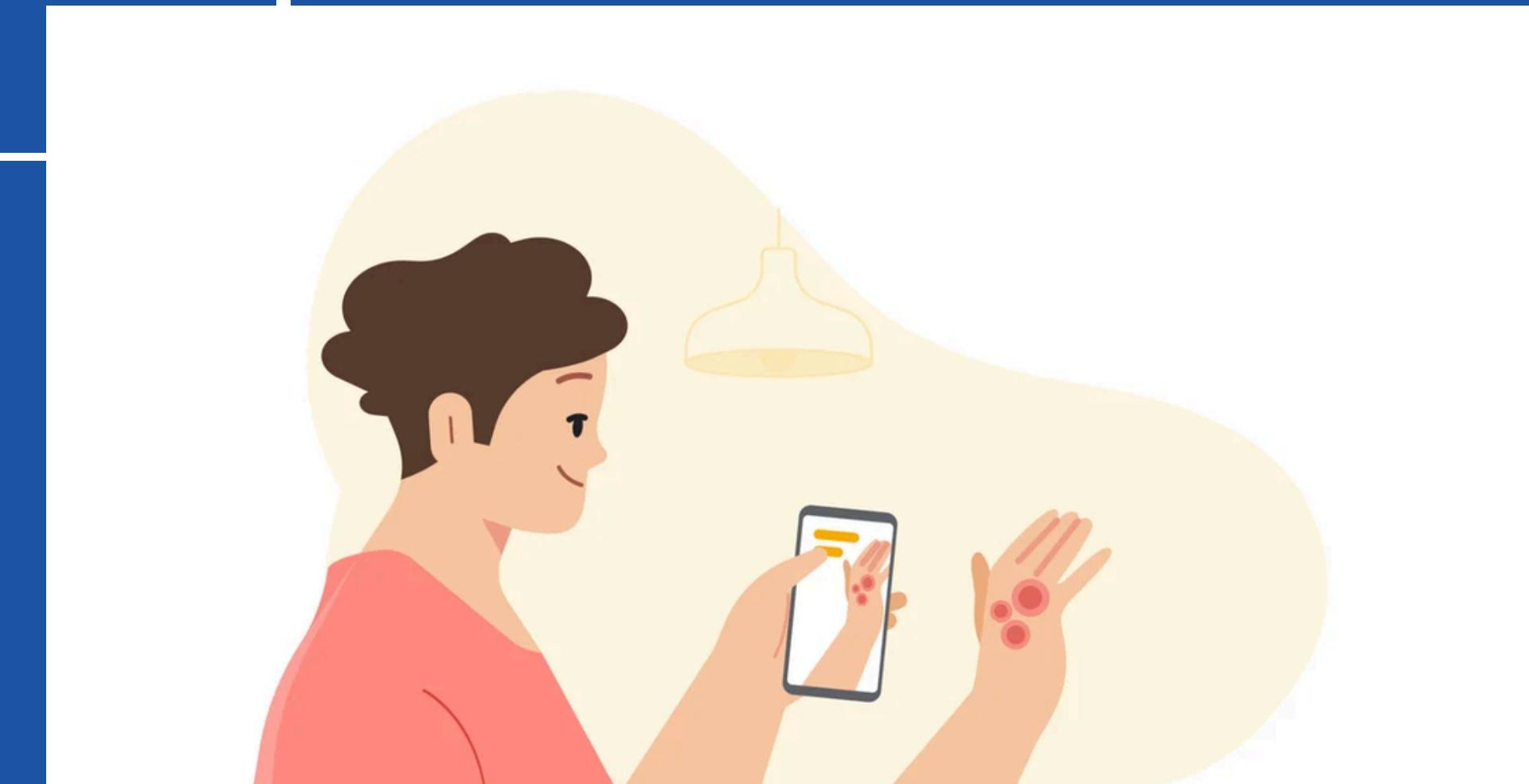
Re-enter your password

Sign up

Back

PROFILE PAGE

- Image Upload Interface
- User Friendly Layout
- Secure Data Handling



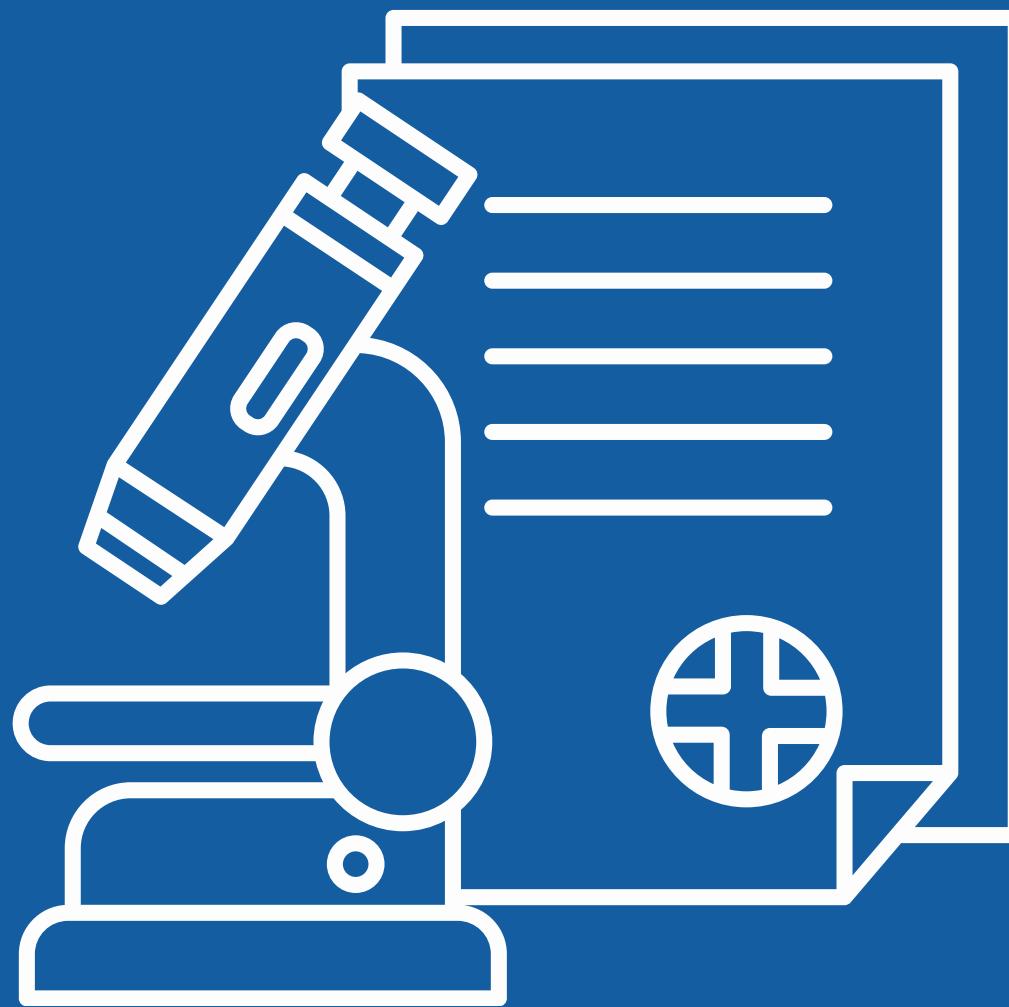
Upload Your Picture

Choose an image:

Choose file No file chosen

Upload

After Uploading Picture



01

Disease Detection

02

Diagnosis Result

03

UserFriendly Interface

04

Data Privacy



Skin Disease Result:

Ringworm

Diagnosis Result:

Apply antifungal creams as prescribed.

MODEL

Our AI model, built using TensorFlow and OpenCV, accurately detects skin conditions by analyzing user-uploaded images. It was trained on a diverse dataset, achieving an impressive 86.7% accuracy in diagnosing various skin diseases. . We validated the model's performance through cross-validation and comparisons with other models, demonstrating its superior accuracy. Our approach combines cutting-edge technology with a strong emphasis on delivering reliable and accurate skin disease diagnoses.



CONCLUSION

- A fully functional web-based platform has been created to facilitate the early identification and evaluation of skin conditions.
- Users can effortlessly upload images, explore educational materials, and track their health information, while the platform connects them to professional medical guidance.
- The system ensures a secure, intuitive experience, equipped with features that enable users to take control of their skin health.
- The platform serves as an essential resource for proactive skin care, fostering awareness and encouraging early action for improved health results.



TEAM MEMBERS

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The background features abstract, overlapping blue geometric shapes, including triangles and rectangles, creating a dynamic and modern feel.

THANK YOU