

Sprint 1 – A Gesture Based Tool for Sterile Browsing of Radiology Images

Team ID: PNT2022TMID53060

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Code: Updated on GitHub in the Sprint-1 folder under Project Development Phase.

Description of USN and Screenshots:

USN-1:

As a user, I can register for the application by entering my email, password, and confirming my password.

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A Gesture Based Tool for Sterile Browsing of Radiology Images



Humans are able to recognize body and sign language easily. This is possible due to the combination of vision and synaptic interactions that were formed along brain development. In order to replicate this skill in computers, some problems need to be solved: how to separate objects of interest in images and which image capture technology and classification technique are more appropriate, among others.

In this project Gesture based Desktop automation, first the model is trained pre trained on the images of different hand gestures, such as a showing numbers with fingers as 1,2,3 and 4. This model uses the integrated webcam to capture the video frame. The image of the gesture captured in the video frame is compared with the Pre-trained model and the gesture is identified. If the gesture predicts is 1 then images is blurred; 2 image is resized; 3 image is rotated etc.



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Sign Up

Don't have an account? Sign up below!

[Sign Up](#)

Sign In

Existing User? Sign in here!

[Sign in](#)

Registration Page

Name

Anirudh Anand

Email

ani07.anand@gmail.com

Username

an

Password

! Please lengthen this text to 4 characters or more (you are currently using 2 characters).

Confirm Password

[Submit](#)

Existing User? [Login Here!](#)

Registration Page

Name

Anirudh Anand

Email

ani07.anand@gmail.com

Username

anirudh07

Password

Passwords do not match

Confirm Password

Submit

Existing User? [Login Here!](#)

You are now registered and can login!

Registration Page

Name

Anirudh Anand

Email

ani07.anand@gmail.com

Username

anirudh07

Password

Confirm Password

Submit

Existing User? [Login Here!](#)

USN-2:

As a user, I will receive confirmation email once I have registered for the application.

Registration Verification

anirudh19015@cse.ssn.edu.in

to me

19:07 (2 minutes ago)

Congratulations! Welcome user! Your Credentials are Username: anirudh07 Password: 123

Thanks a lot. Received, thank you. Awesome, thank you so much!

Reply Forward

USN-3:

As a user, I can log in and access my dashboard page.

User not found! Please enter the correct username and/or password.

Sign In

Sign Up

Sign In to your Account

Email

maildoesntexist@gmail.com

Password

•

Submit

Invalid login!

Sign In

Sign Up

Sign In to your Account

Email

anirudh19015@cse.ssn.edu.in

Password

Submit

Menu

Help

Gesture Prediction

Sign Out

Anirudh Anand

Welcome!

Hi anirudh07! Welcome back to the application!

Number of accesses to the application(All Time): 1

Latest Session: 08/11/2022 19:13:03

Get to know how to use the application

```
graph LR; Inputs --> Model; Model --> Prediction; Prediction --> Evaluation; Evaluation --> DL_Algorithm[DL Algorithm]; DL_Algorithm --> Data_Preprocessing[Data Preprocessing]; Data_Preprocessing --> Train_Data[Train Data]; Data_Preprocessing --> Test_Data[Test Data]; Train_Data --> Image_Data[Image Data]; Model --- Processing[1. Resize, 2. Blur, 3. Flip, 4. Rectangle]
```