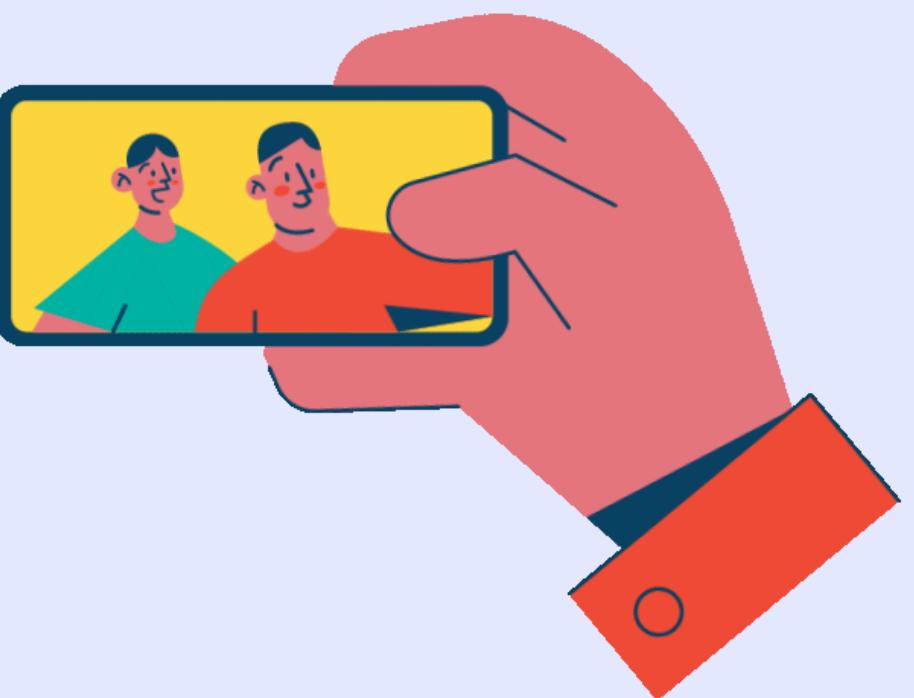


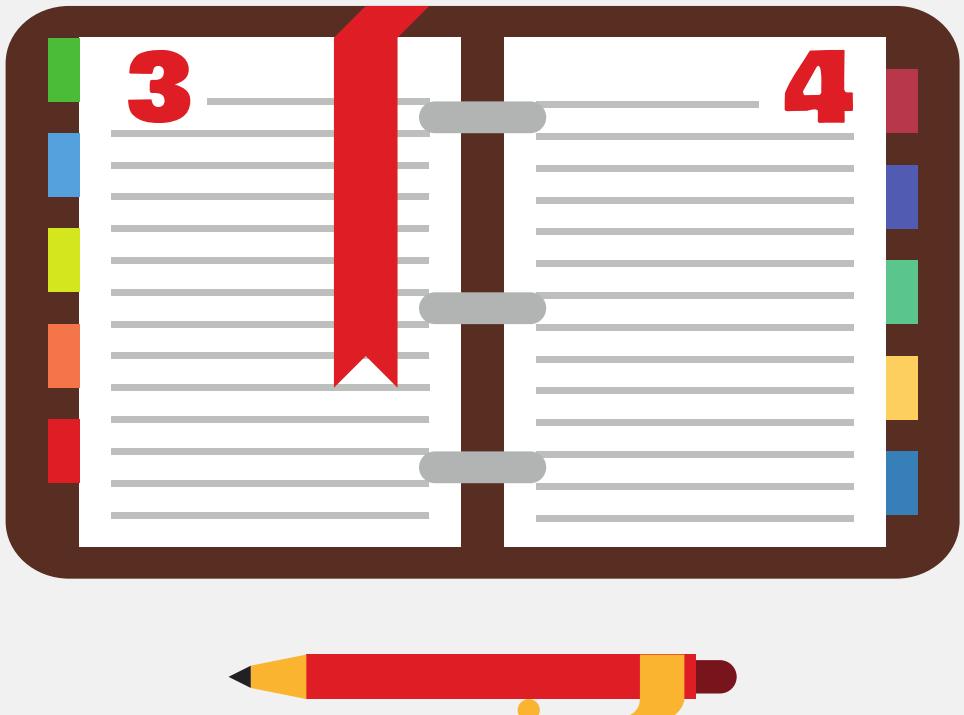


Face Filters

Group No : 1

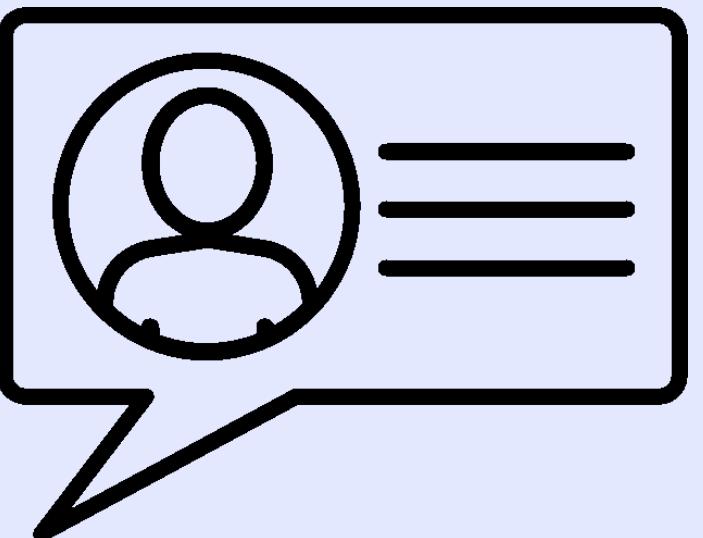


Agenda



- 1 Project profile
- 2 Analysis and Designing of the System
- 3 System Description
- 4 Reports and test cases
- 5 Conclusion and future Direction

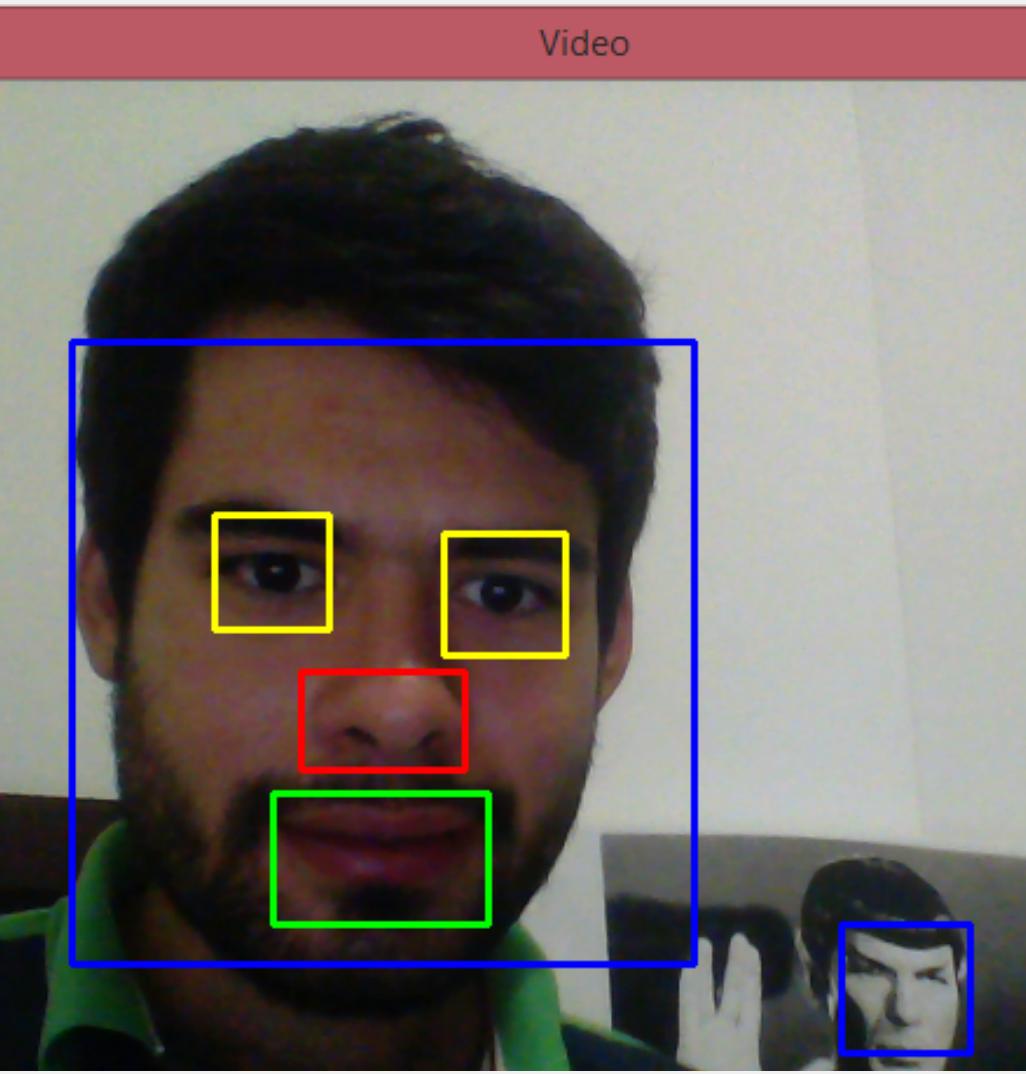
PROJECT PROFILE



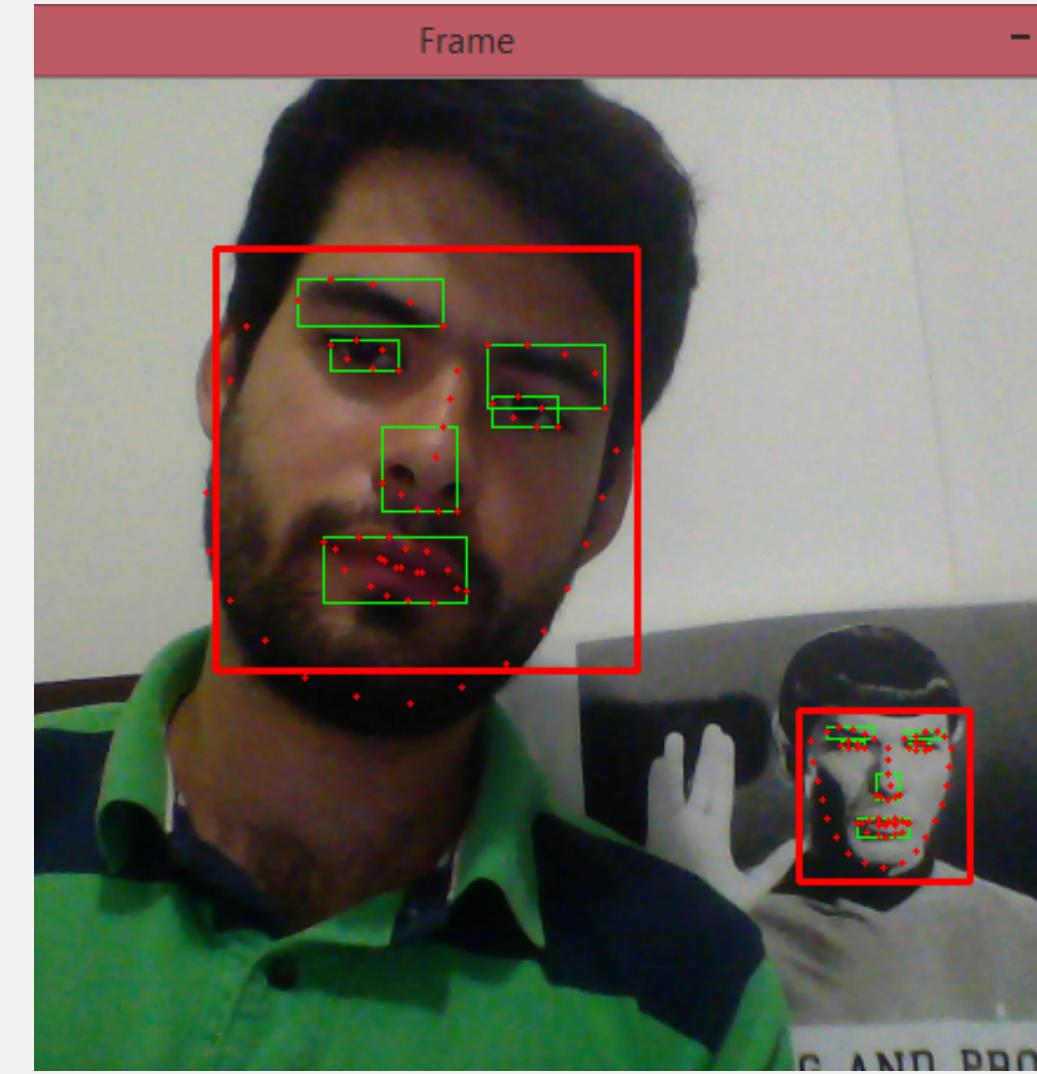
| | | |
|-------------------------|---------------------|----------------|
| Project Title | Face -Filter | |
| Application Type | Desktop Application | |
| Project Guide | Dr. Harshal Arolkar | |
| Team Size | 5 | |
| Group No | 1 | |
| Front-End | TK Inter | |
| Back-End | Python | |
| Database | MYSQL | |
| Submitted By | Roll No | Name |
| | B01 | Dhwani Adeshra |
| | B39 | Manan Navadiya |
| | B43 | Dishit Pandya |
| | B65 | Jainam Shah |
| | B70 | Zeel Thakkar |

Introduction

- A desktop application that play around with face filters like hat, Dog Face,moustache and glasses automatic in-face superposition in real time.
- It uses Haar features and the Viola–Jones object detection framework implemented in OpenCV to detect mainly faces positions and inside the faces, eyes and mouth position.
- For each detected face, output the local region coordinates for each member or facial feature of that face. This includes the eyes, bone, lips, nose, mouth.
- coordinates are usually in the form of points (X,Y).After coordinates are placed, model can apply filters on faces.



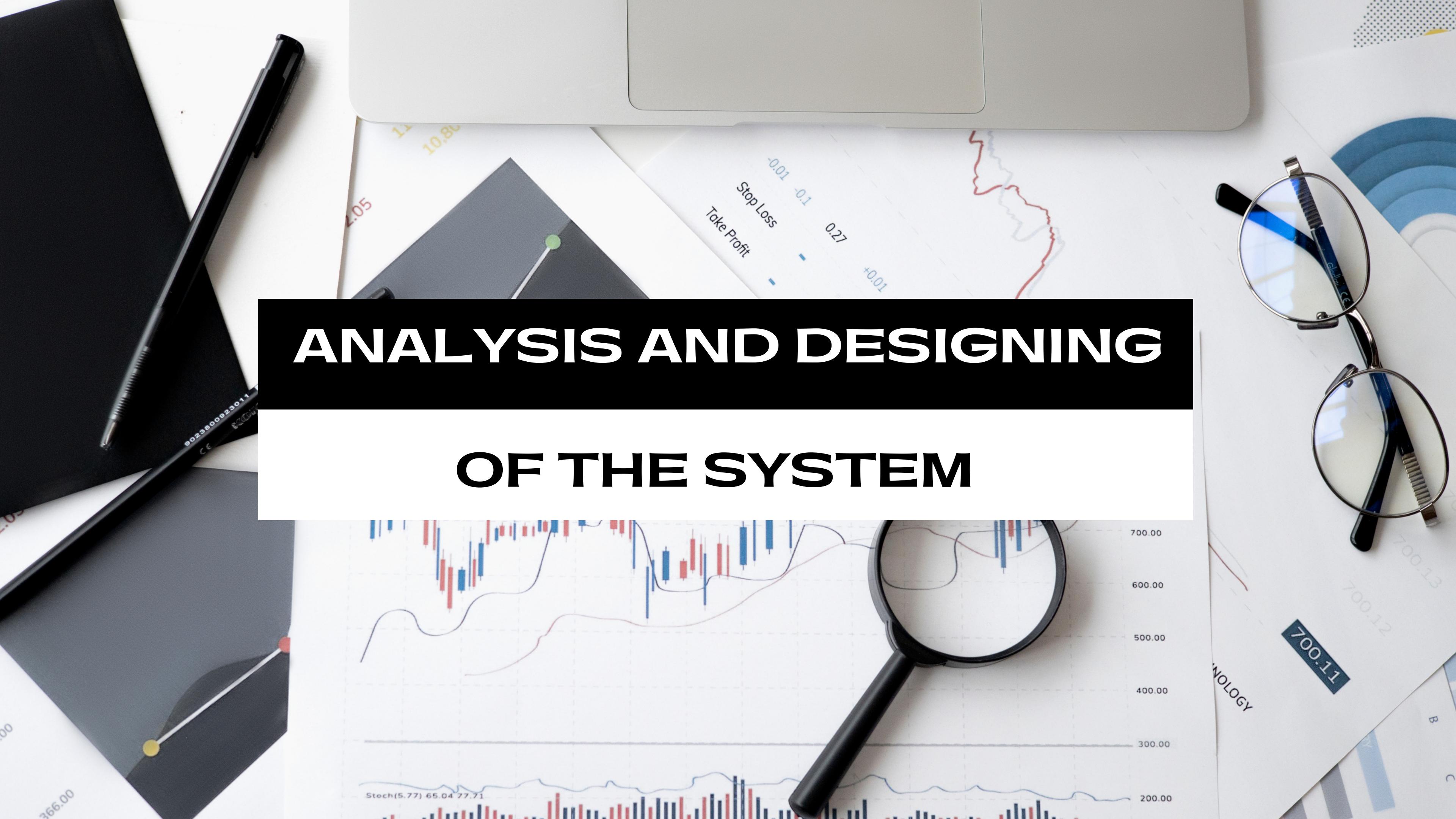
Example: Facial Feature



Example: Facial Landmarks

- HARRCASCades technique is very old, so detection is often not so good when the faces are slightly bent for example. It is not possible to estimate the inclination of the head
- The 68 facial landmarks are numbered in the following form. With the points we calculate the inclination so the "accessories" are also bent.
- With the points of the mouth can be detected when the mouth is open and then display some trick, like a rainbow coming out.

ANALYSIS AND DESIGNING OF THE SYSTEM

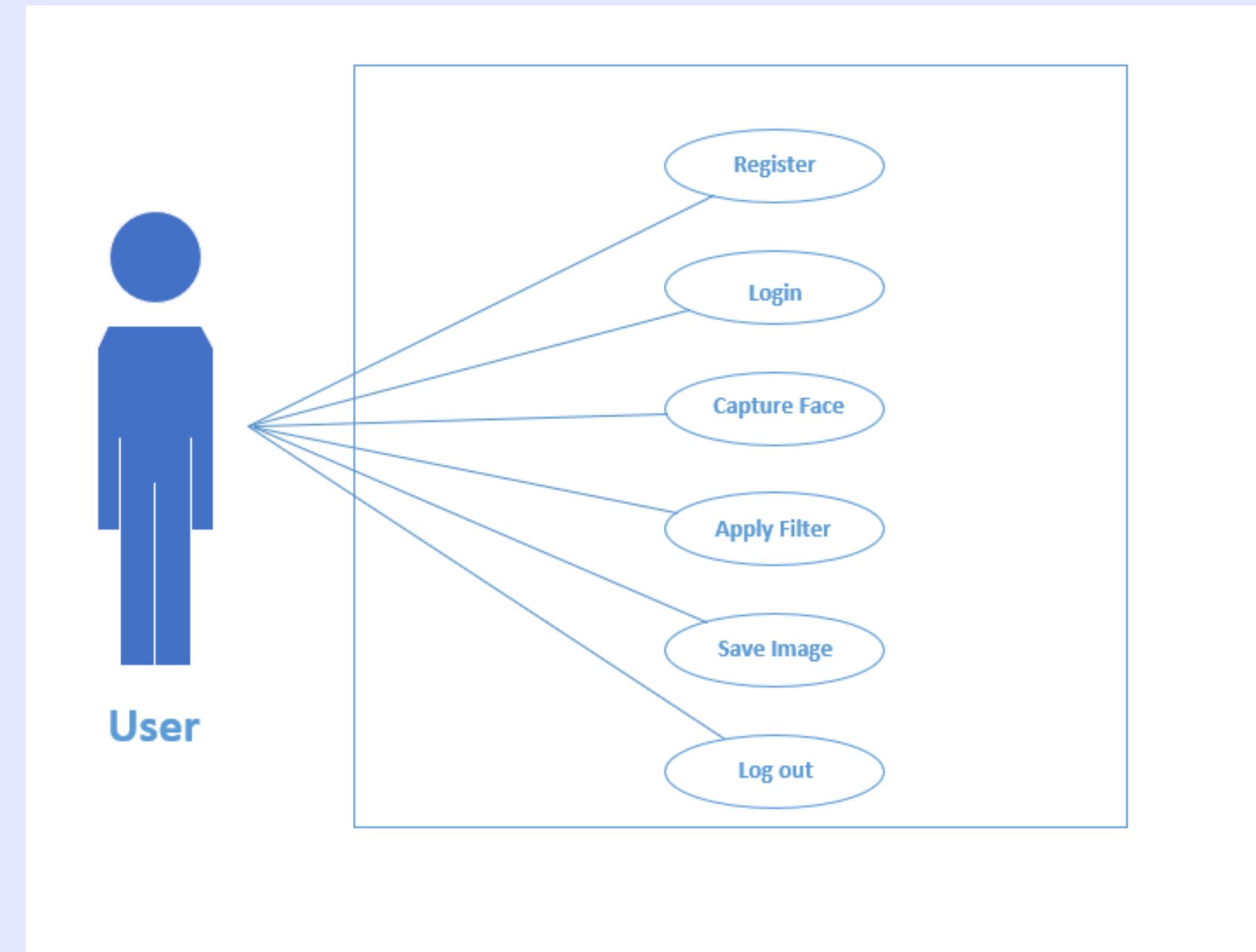


DATA DICTIONARY:

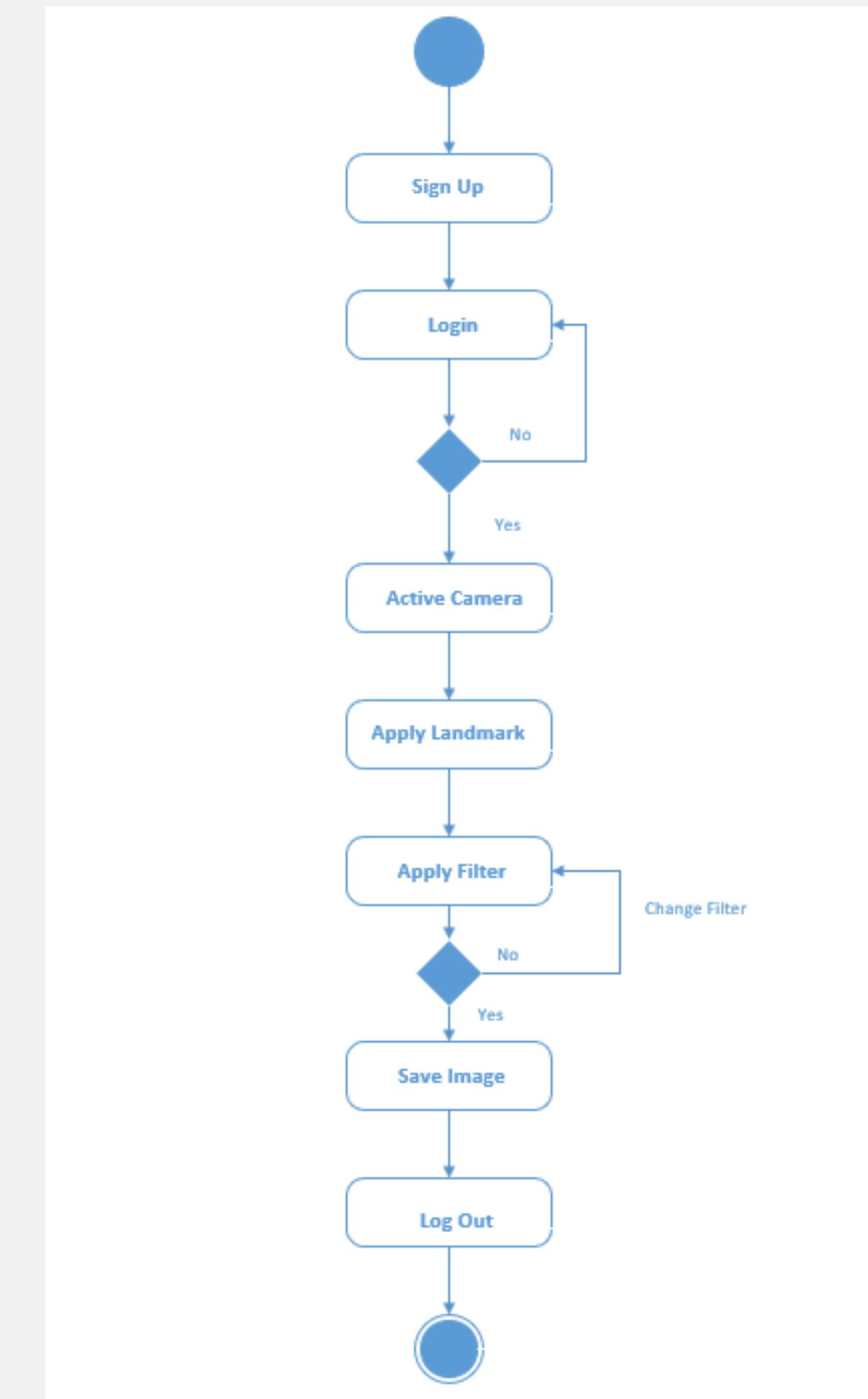
| | |
|---------------------|---------------------|
| Table Name: | Registration |
| Database: | Registration |
| Primary Key: | ID |

| Field Name | Data type | Size | Constraint | Description |
|------------|-----------|------|-------------|------------------------------|
| First Name | Varchar | 20 | Not Null | Store First Name of user |
| Last Name | Varchar | 20 | Not Null | Store Last Name of user |
| Age | int | 3 | Not Null | Store Age of the user |
| Gender | Varchar | 6 | Not Null | |
| City | Varchar | 20 | Not Null | Store mobile number of user |
| E-mail | Varchar | 20 | Primary Key | Store E-mail address of user |
| User Name | Varchar | 20 | Not Null | Store Username of new user |
| Password | Nvarchar | 250 | Not Null | Store Password of user |

USE CASE DIAGRAM:

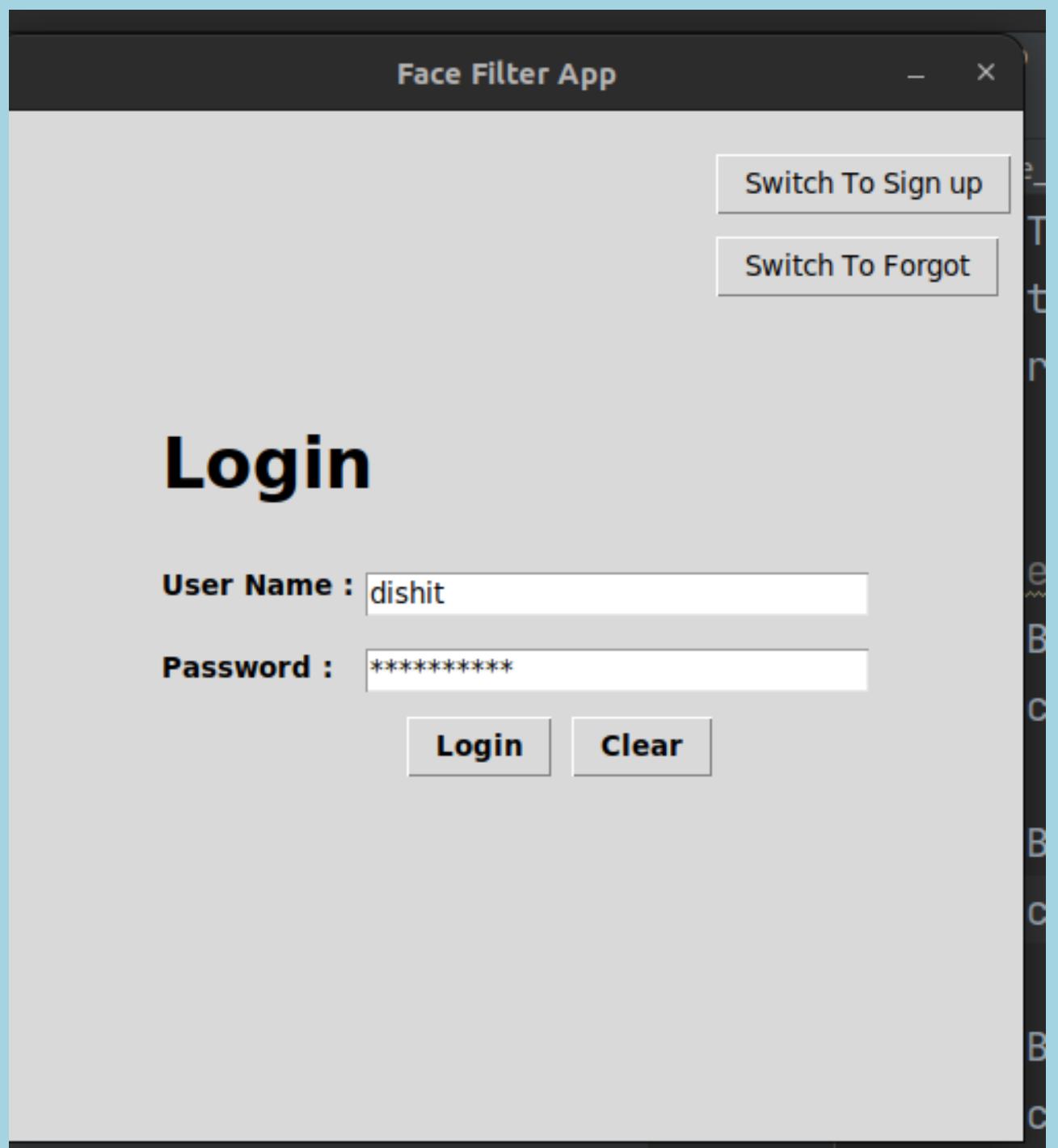


ACTIVITY DIAGRAM:



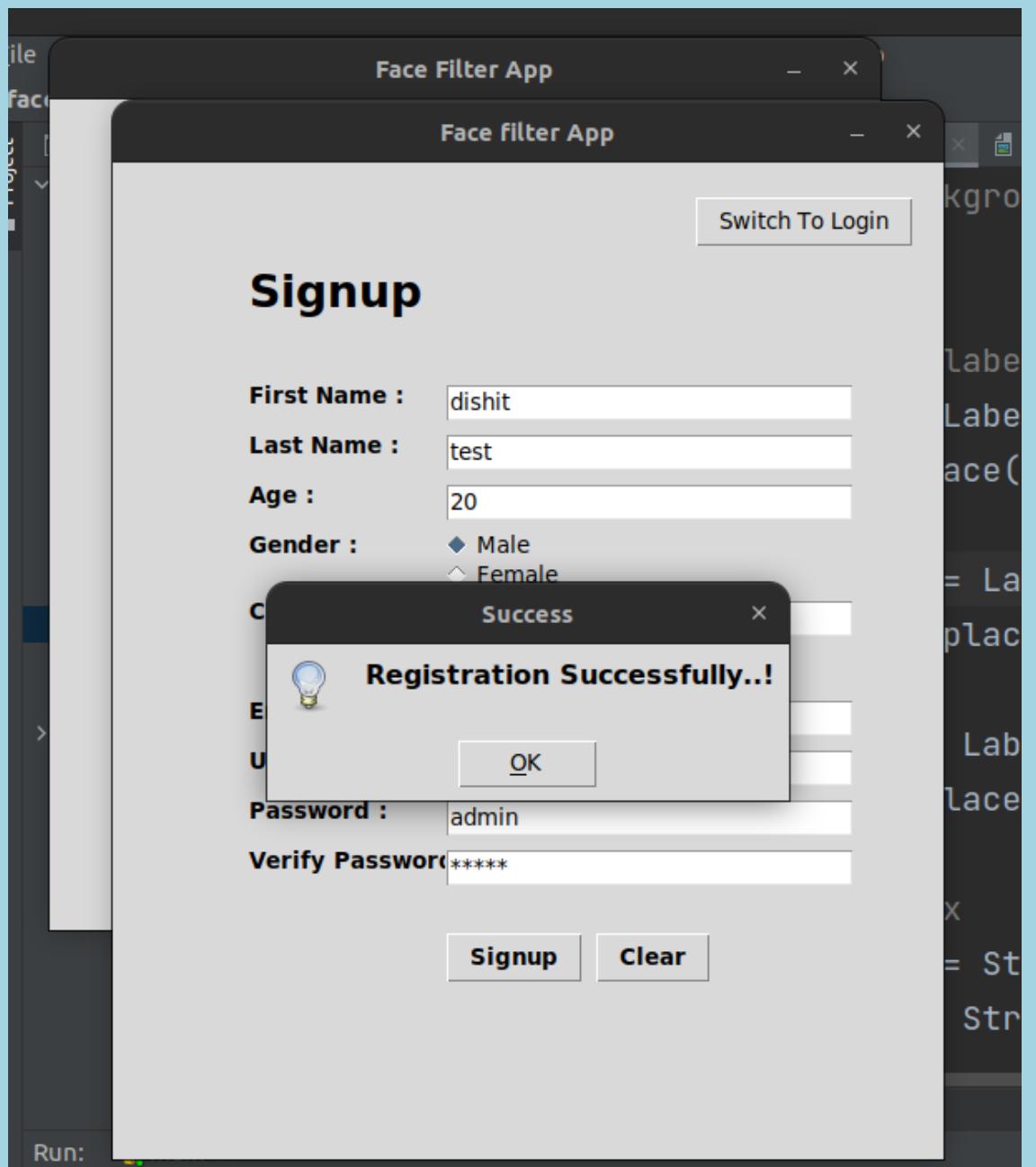


**SYSTEM
DESCRIPTION**



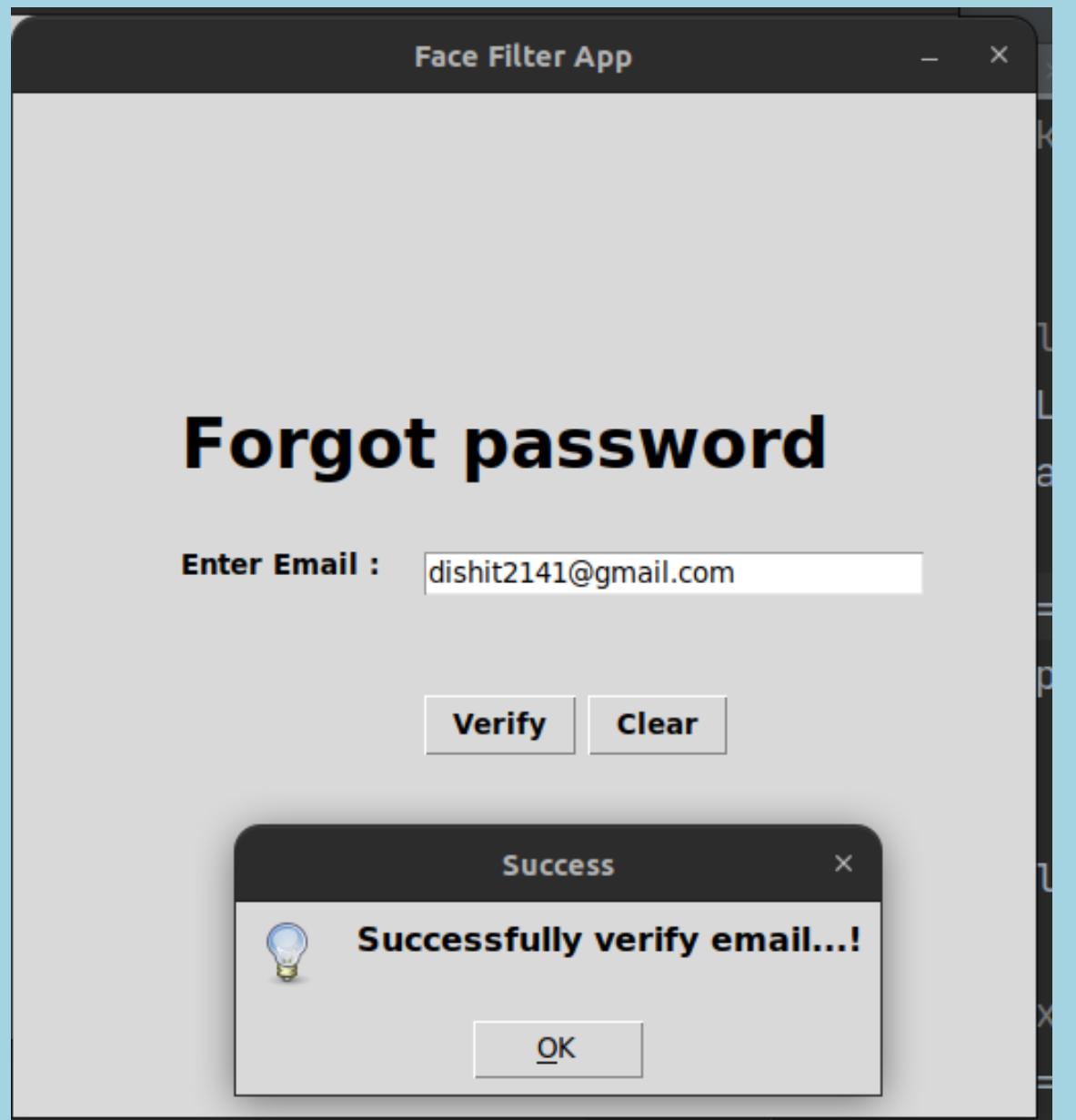
Screen 1 [Log in]:

The below screen show login page if the user already have account then he/she directly login. If user doesn't have their account they simply click on sign up to register him/her self to use the application. if the user can't remember their password so they can easily click on forget the password to their change their password. Here clear button is used for clear the input data.



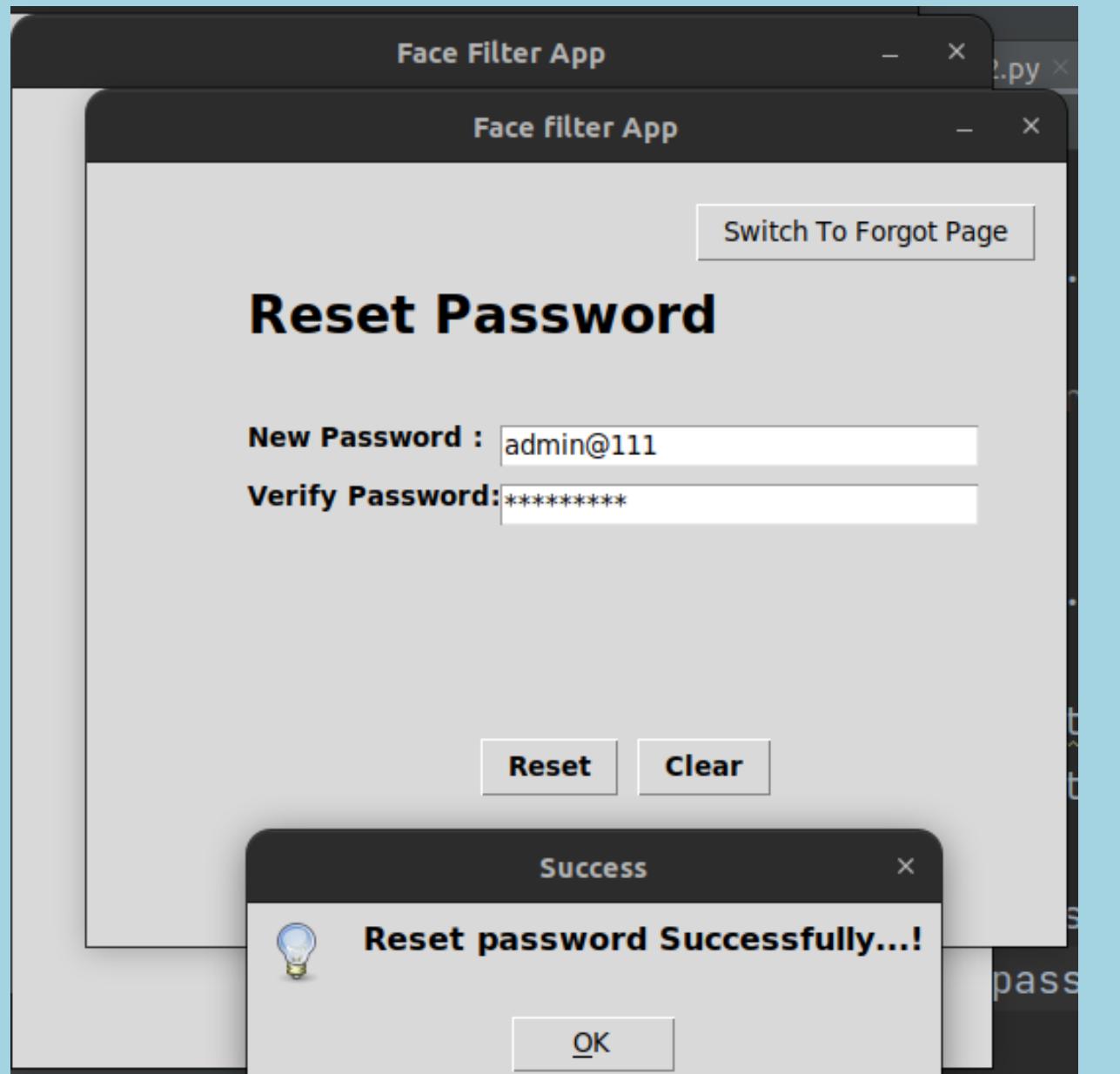
Screen 2 [Sign up]:

.The below page is for Registration. When User clicks on Signup button he/she redirect to the main page of the application. If user has already Account in my application then click on Login.



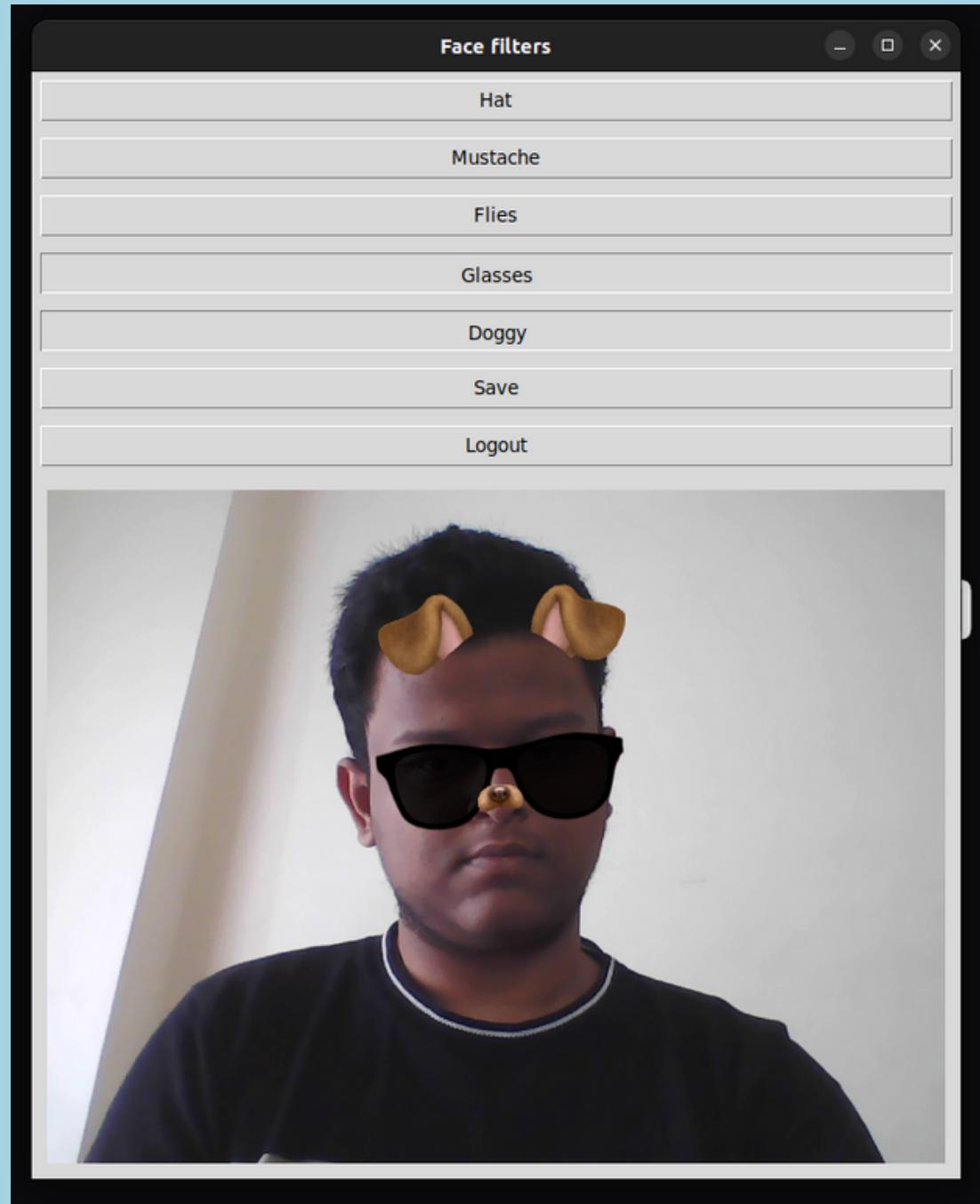
Screen 3 [Forgot Password]:

To reset password first verify user's email id.



Screen 4 [Reset Password]:

Enter new password and also enter second time to verify it and click on reset to Reset the password.



Screen 5 [Home Screen]:

Apply Different filters like hat, mustache, Files, Glasses, Doggy and also save photo of it. To log out account click on Log Out Button

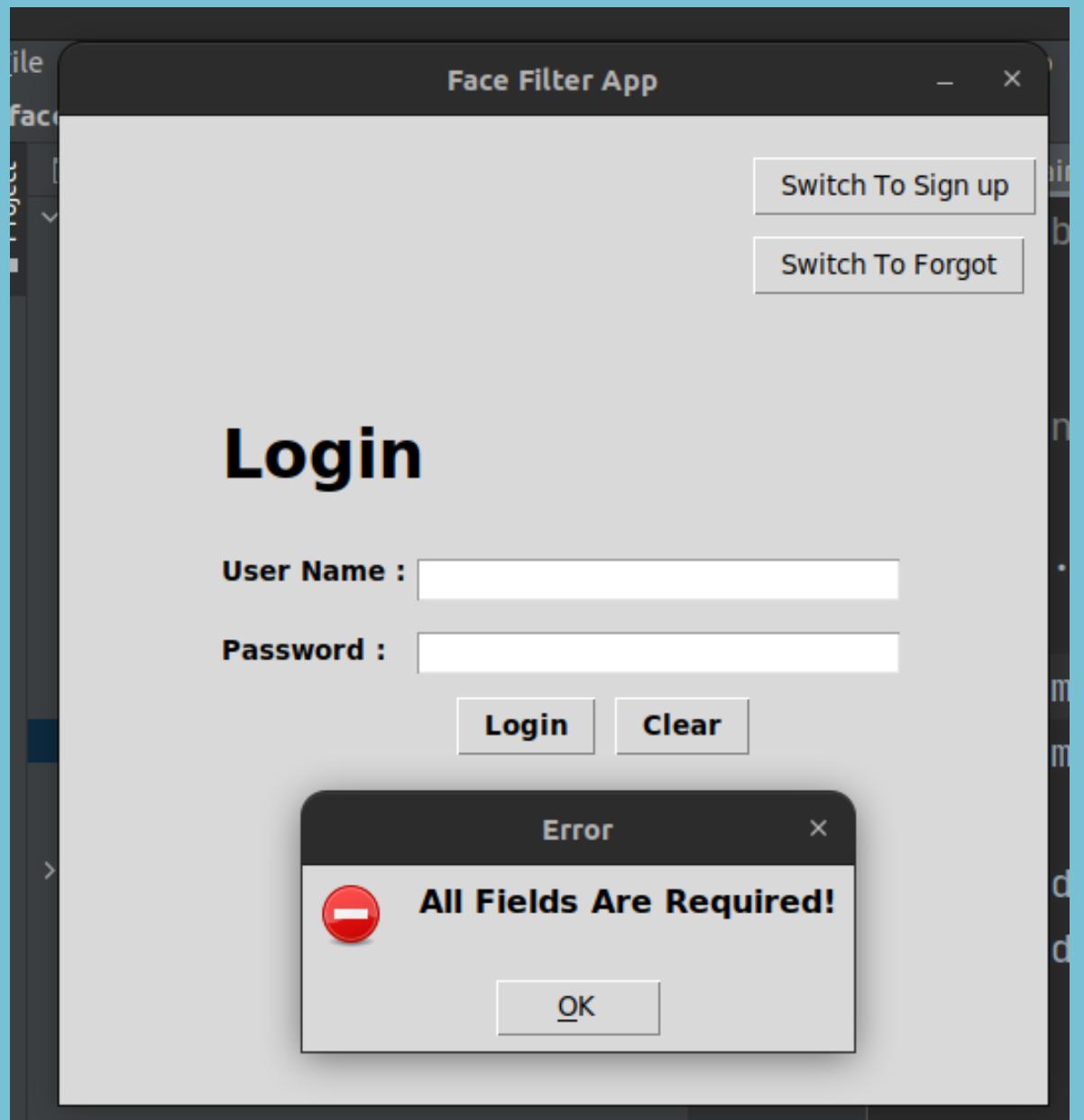
TEST CASE

REPORT



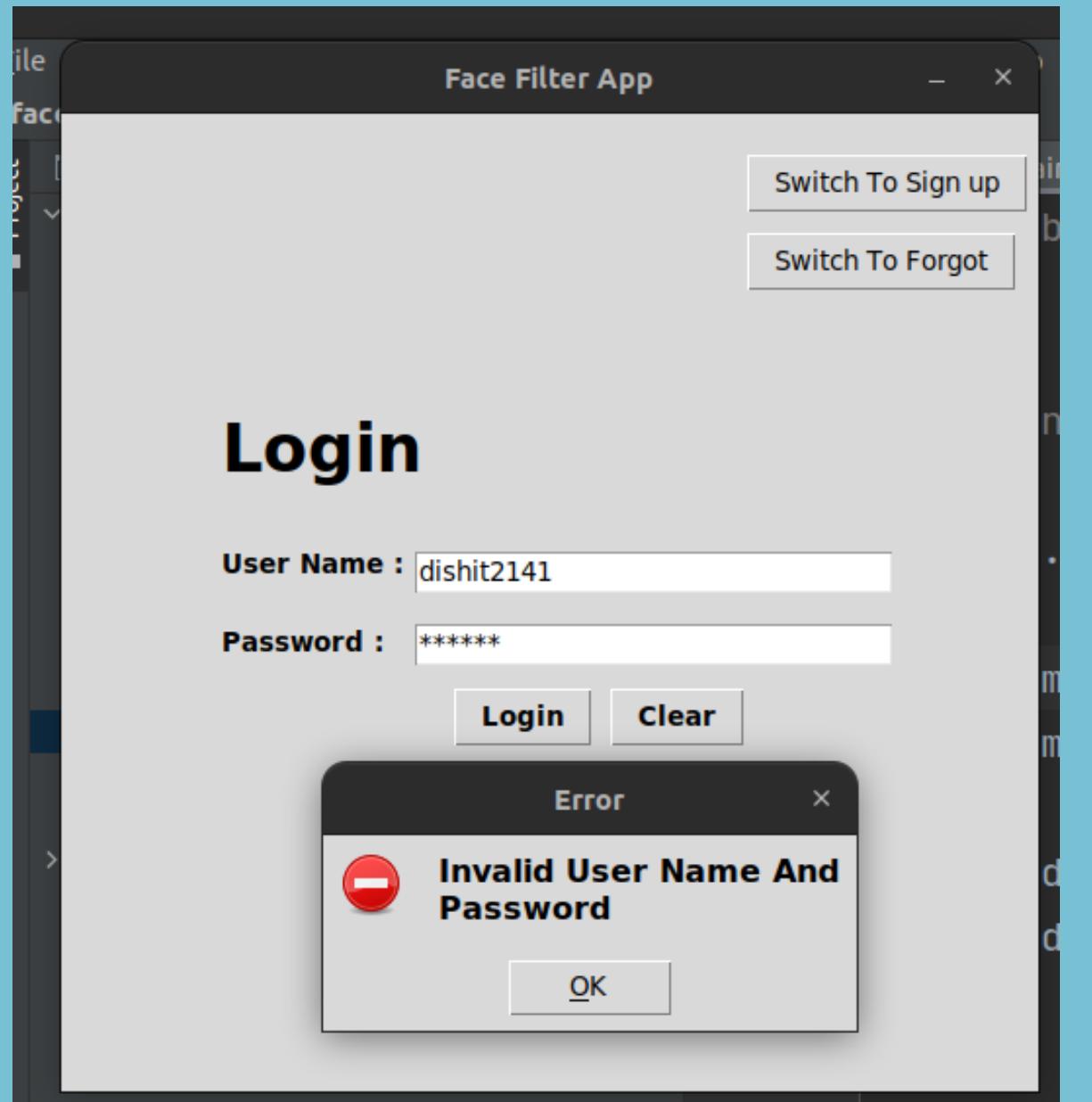
Case1:- user Login

| Test Case Id | Test Description | Expected Result | Actual Result | Solution | Status |
|--------------|---|--|--|---|--------|
| 1. | Empty Value For Username | Display error message "All fields are required!" | Display error message "All fields are required!" | Enter valid Username | Pass |
| 2. | Empty Value For Password | Display error Message "All fields are required!" | Display error message "All fields are required!" | Enter valid Password | Pass |
| 3 | username and password which is not registered | Display error message "Invalid username And Password" | Display error message "Invalid username And Password" | First register yourself then try to login | Pass |



Example of Test case 1.1 and 1.2:

- Username and password should not be empty at the time of login.



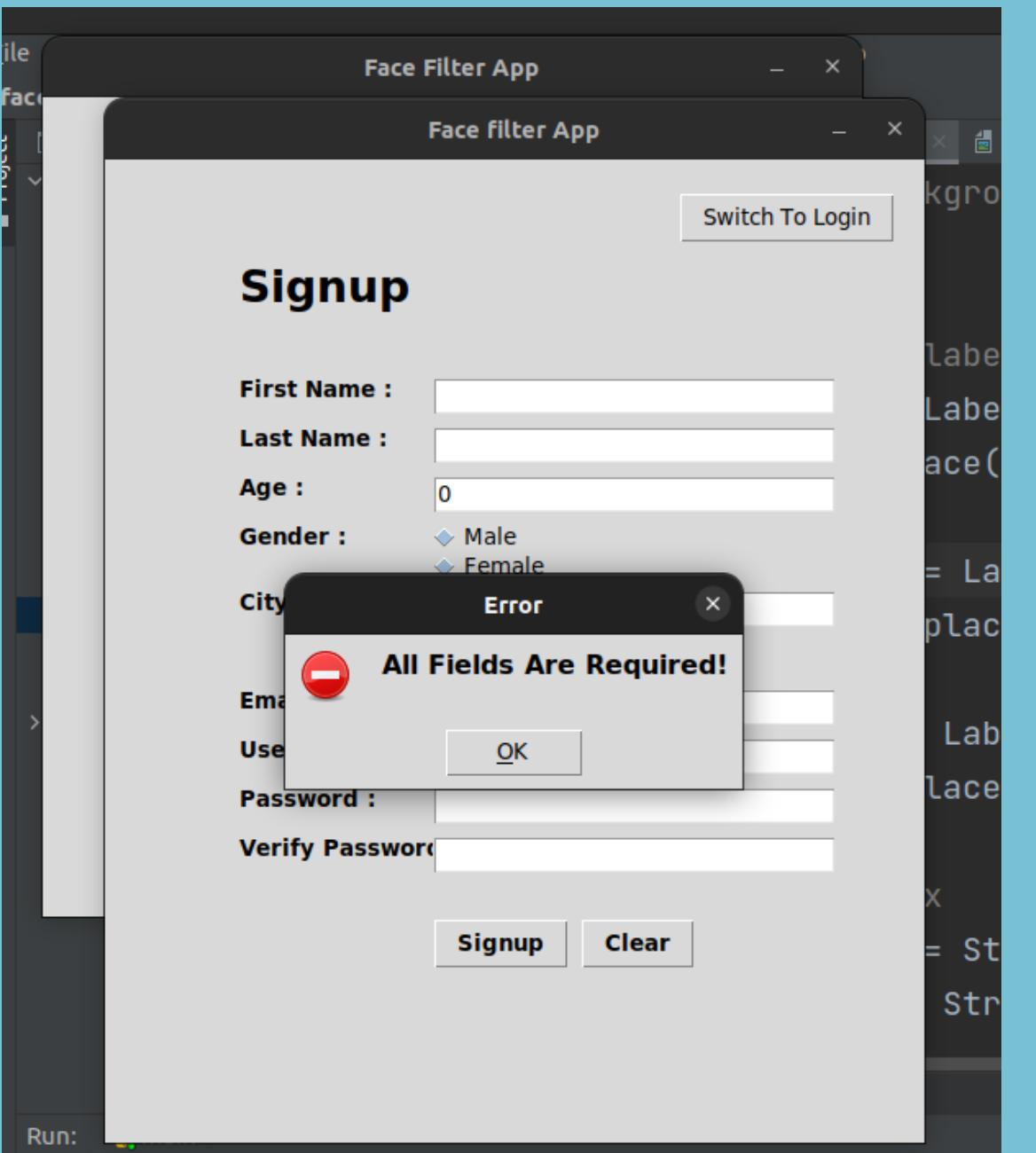
Example of Test case 1.3:

- Username and password which is not registered.

Case 2: User Registration:-

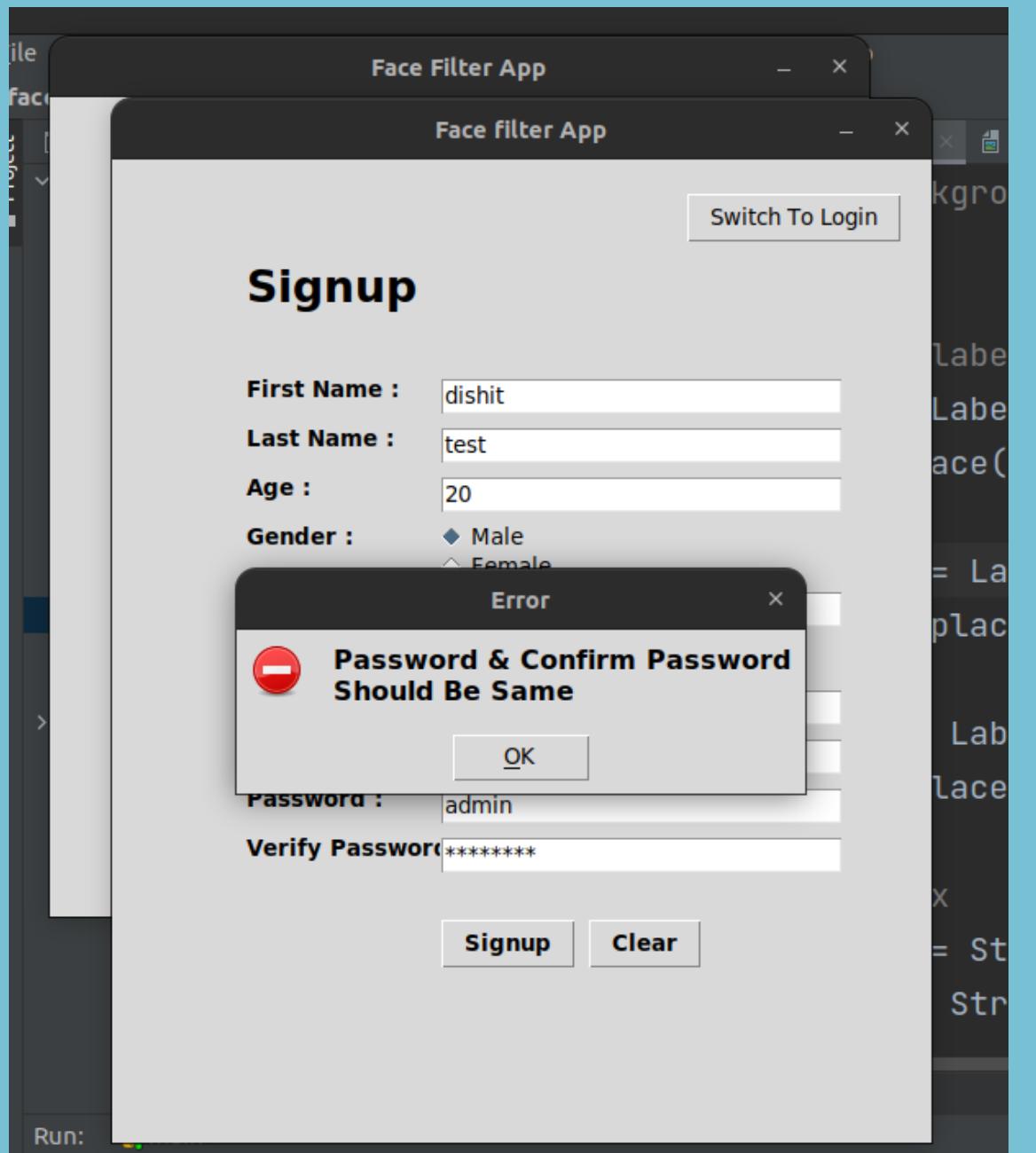
| Test Case Id | Test Description | Expected Result | Actual Result | Solution | Status |
|--------------|------------------------|--|--|-------------------|--------|
| 1. | Empty First Name | Display error Message "All fields are required!" | Display error Message "All fields are required!" | Enter First name | Pass |
| 2. | Empty <u>Last Name</u> | Display error Message "All fields are required!" | Display error Message "All fields are required!" | Enter Last Name | Pass |
| 3. | Empty Age | Display error Message "All fields are required!" | Display error Message "All fields are required!" | Enter numeric Age | Pass |
| 4. | Empty Gender | Display error Message "All fields are | Display error Message "All fields are | Enter Gender | Pass |

| | | | | | |
|----|--|--|--|--|------|
| 5. | Empty Email | Display error Message "All fields are required!" | Display error Message "All fields are required!" | Enter Email | Pass |
| 6. | Empty User Name | Display error Message "All fields are required!" | Display error Message "All fields are required!" | Enter User Name | Pass |
| 7. | Empty Password | Display error Message "All fields are required!" | Display error Message "All fields are required!" | Enter Password | Pass |
| 8. | Empty Verify Password | Display error Message "All fields are required!" | Display error Message "All fields are required!" | Enter Verify Password | Pass |
| 9. | Password and confirm password are not same | Display error Message "Password and confirm password are not same" | Display error Message "Password and confirm password are not same" | Password and confirm password are same | Pass |



Example of Test case 2.1 to 2.8:

- All fields are required

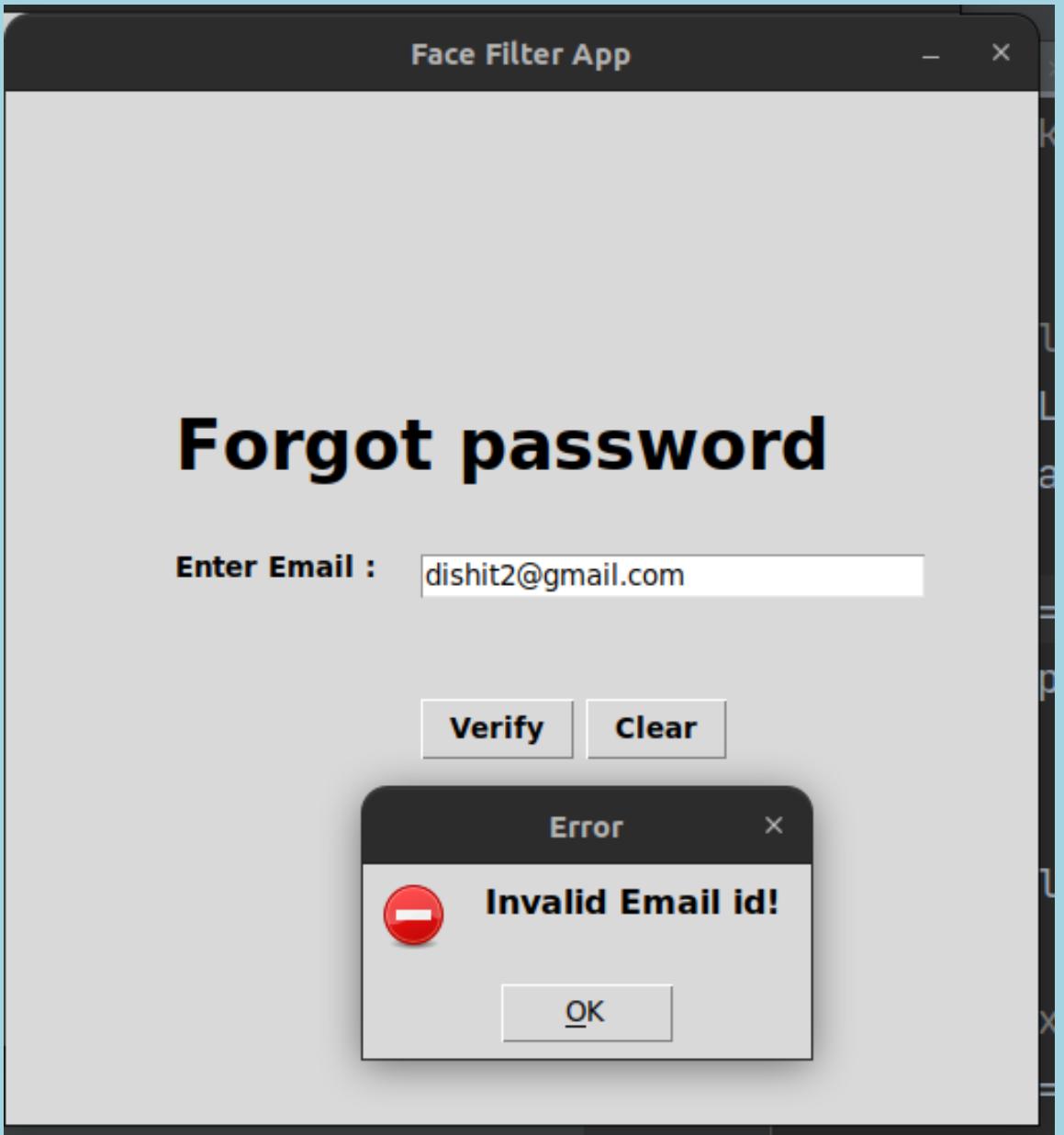


Example of Test case 2.9:

- Password and confirm password are not same

Case 3: Forgot Password:-

| Test Case Id | Test Description | Expected Result | Actual Result | Solution | Status |
|--------------|------------------|---|---|----------------------|--------|
| 1. | Invalid Email ID | Display error message "Invalid Email ID!" | Display error message "Invalid Email ID!" | Enter valid Email ID | Pass |

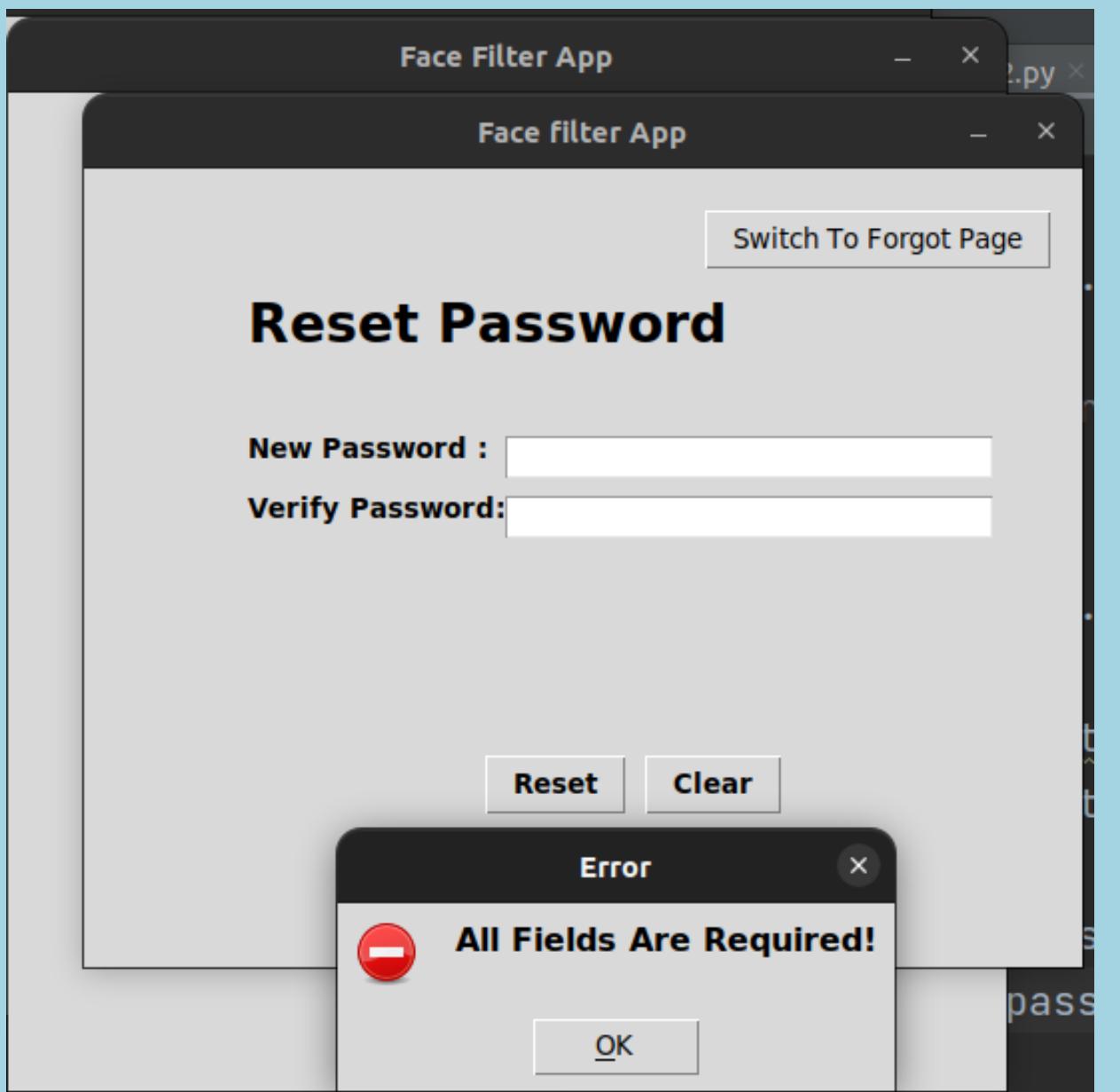


Example of Test case 3.1

- Invalid Email Id .

Case 4: Reset Password:-

| Test Case Id | Test Description | Expected Result | Actual Result | Solution | Status |
|--------------|-----------------------|---|---|-----------------------|--------|
| 1. | Empty Password | Display error Message "All fields are required!" | Display error Message "All fields are required!" | Enter Password | Pass |
| 2. | Empty verify Password | Display error Message "All fields are required!" | Display error Message "All fields are required!" | Enter verify Password | Pass |



Example of Test case 4.1 and 4.2

- Password and verify password are required.

Thank You

