A Secure Authentication System with Manual and OAuth Login

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Technologies Used:
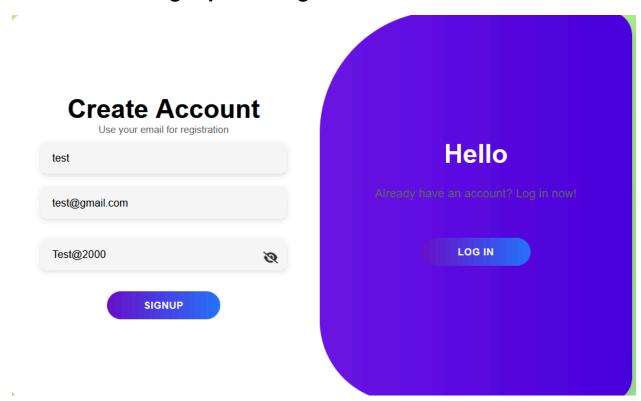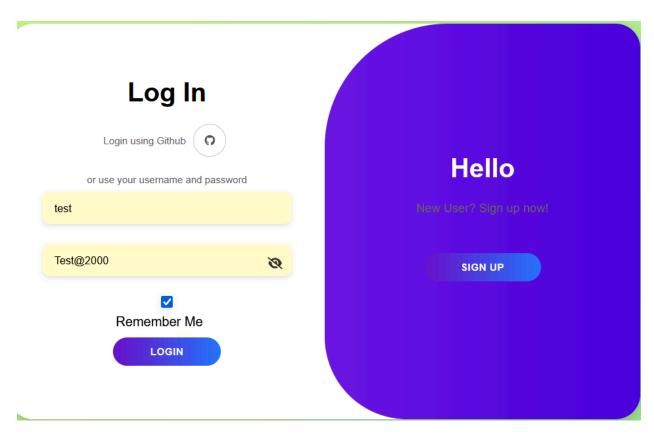
- **Python** with **Flask**

- **Flask-Bcrypt** for password hashing

- **GitHub OAuth**

- **MySQL** database

- **.env** for environment variable security

- **HTML/CSS**

Key Routes:

Route	Method	Description
/signup	GET/POST	User registration
/login	GET/POST	Manual login or redirect to GitHub OAuth
/login/github	GET	GitHub OAuth login
/logout	GET	Logs the user out and clears session
/ home	GET	Home page
/profile	GET	Displays profile info

First: Manual Signup and Login

Create Account

Use your email for registration

test

test@gmail.com

Test@2000

SIGNUP

Hello

Already have an account? Log in now!

LOG IN

Log In

Login using Github

or use your username and password

test

Test@2000

☑ Remember Me

LOGIN

Hello

New User? Sign up now!

SIGN UP

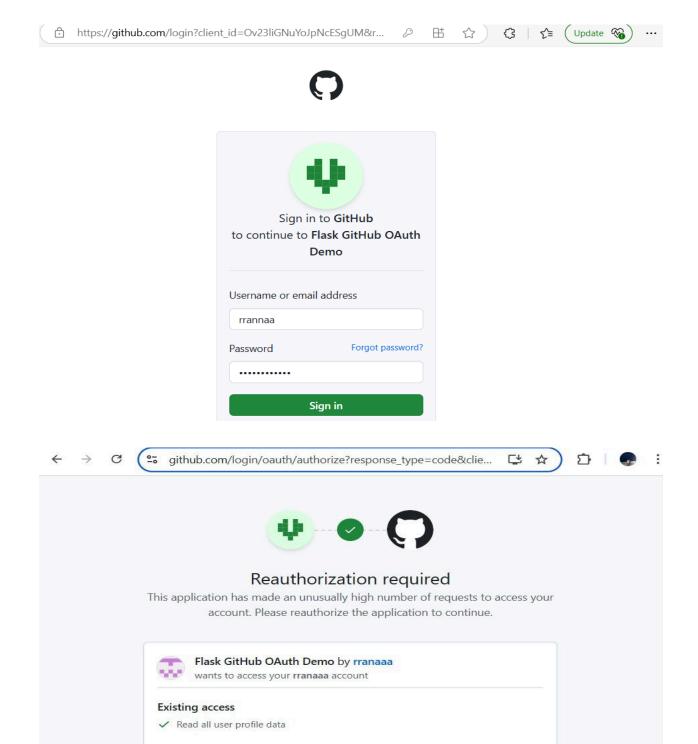# Welcome, Test!

Email: test@gmail.com

This is a manually registered account.

LOG OUT

Second: Login using OAuth Github

Welcome, rranaaa!

VIEW GITHUB PROFILE

LOG OUT

☰ **rranaaa**

📖 **Overview**   🖥 Repositories `10`   ▦ Projects   ⬡ Packages   ☆ Stars

rranaaa

Popular repositories

Data-Mining-on-Airline-Ratings-Dataset   `Public`

Kmedoids, Hierarchical Clustering, Fuzzy Logic, Kmeans, Logistic Regression and Decision Tree

🔴 Jupyter Notebook

Face-Recognition-using-PCA-LDA   `Public`

🔵 Python

Information-Security   `Public`

Users table

				id	username	email	password_hash		auth_method	github_id	created_at
☐	🖉 Edit	📋 Copy	⊖ Delete	1	rranaaa	174056173@github	NULL		github	174056173	2025-04-28 16:10:08
☐	🖉 Edit	📋 Copy	⊖ Delete	2	rana	ranaa@gmail.com	$2b$12$dtKe8sE3oP3aJcqtaNWS1.71IlsRsdljXdWAlcF67bZ...		manual	NULL	2025-04-28 17:07:38
☐	🖉 Edit	📋 Copy	⊖ Delete	3	admin	admin@gmail.com	$2b$12$iF3FbjeDDCSSo9TAQCbF8OBJyn9yj3Y9CPXLUCb1Obr...		manual	NULL	2025-04-30 11:55:09
☐	🖉 Edit	📋 Copy	⊖ Delete	4	Ahmed	ahmed@gmail.com	$2b$12$eG.DP1vWuD/7S/IdS.9PlOvvSBFtZrCYHEzKnpq8jfo...		manual	NULL	2025-04-30 12:43:06
☐	🖉 Edit	📋 Copy	⊖ Delete	5	Nada	nada@gmail.com	$2b$12$4OzUtFU6cDaTjxsTMn3fhuY/sY5G6vdLXn25wboFwZD...		manual	NULL	2025-04-30 13:02:28
☐	🖉 Edit	📋 Copy	⊖ Delete	6	Test	test@gmail.com	$2b$12$kAPScW9ubx7m2o3egxaznuuJrnucKoR/J1PSQrWtNBA...		manual	NULL	2025-04-30 16:04:12

Loginlog table

				id	user_id	timestamp	ip_address
☐	🖉 Edit	📋 Copy	⊖ Delete	1	1	2025-04-28 16:12:18	127.0.0.1
☐	🖉 Edit	📋 Copy	⊖ Delete	2	1	2025-04-28 16:12:50	127.0.0.1
☐	🖉 Edit	📋 Copy	⊖ Delete	3	1	2025-04-28 16:47:14	127.0.0.1
☐	🖉 Edit	📋 Copy	⊖ Delete	4	1	2025-04-28 17:03:58	127.0.0.1
☐	🖉 Edit	📋 Copy	⊖ Delete	5	2	2025-04-28 17:08:13	127.0.0.1
☐	🖉 Edit	📋 Copy	⊖ Delete	6	1	2025-04-28 17:18:00	127.0.0.1
☐	🖉 Edit	📋 Copy	⊖ Delete	7	2	2025-04-28 17:18:13	127.0.0.1
☐	🖉 Edit	📋 Copy	⊖ Delete	8	1	2025-04-28 17:24:27	127.0.0.1
☐	🖉 Edit	📋 Copy	⊖ Delete	9	2	2025-04-28 17:26:23	127.0.0.1
☐	🖉 Edit	📋 Copy	⊖ Delete	10	1	2025-04-28 17:26:28	127.0.0.1
☐	🖉 Edit	📋 Copy	⊖ Delete	11	1	2025-04-28 17:27:25	127.0.0.1
☐	🖉 Edit	📋 Copy	⊖ Delete	12	1	2025-04-28 17:29:20	127.0.0.1
☐	🖉 Edit	📋 Copy	⊖ Delete	13	1	2025-04-28 17:29:38	127.0.0.1