

Flask Login & Registration Dashboard

A secure web application built with Flask, HTML, CSS, JavaScript, and MongoDB Atlas for user authentication and data tracking.

Title: Crowd Count

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Project Overview

Objective: Develop a web application with secure login/registration and a dashboard featuring Home, Count Analysis, History, Profile, and Logout functionalities. Technologies Used:

- Flask (Python web framework)
 - MongoDB Atlas (NoSQL database)
 - HTML, CSS, JavaScript (Frontend)
 - Chart.js for data visualization
- Target Audience: Developers, users needing secure data tracking dashboards.

Key Features

User Authentication:

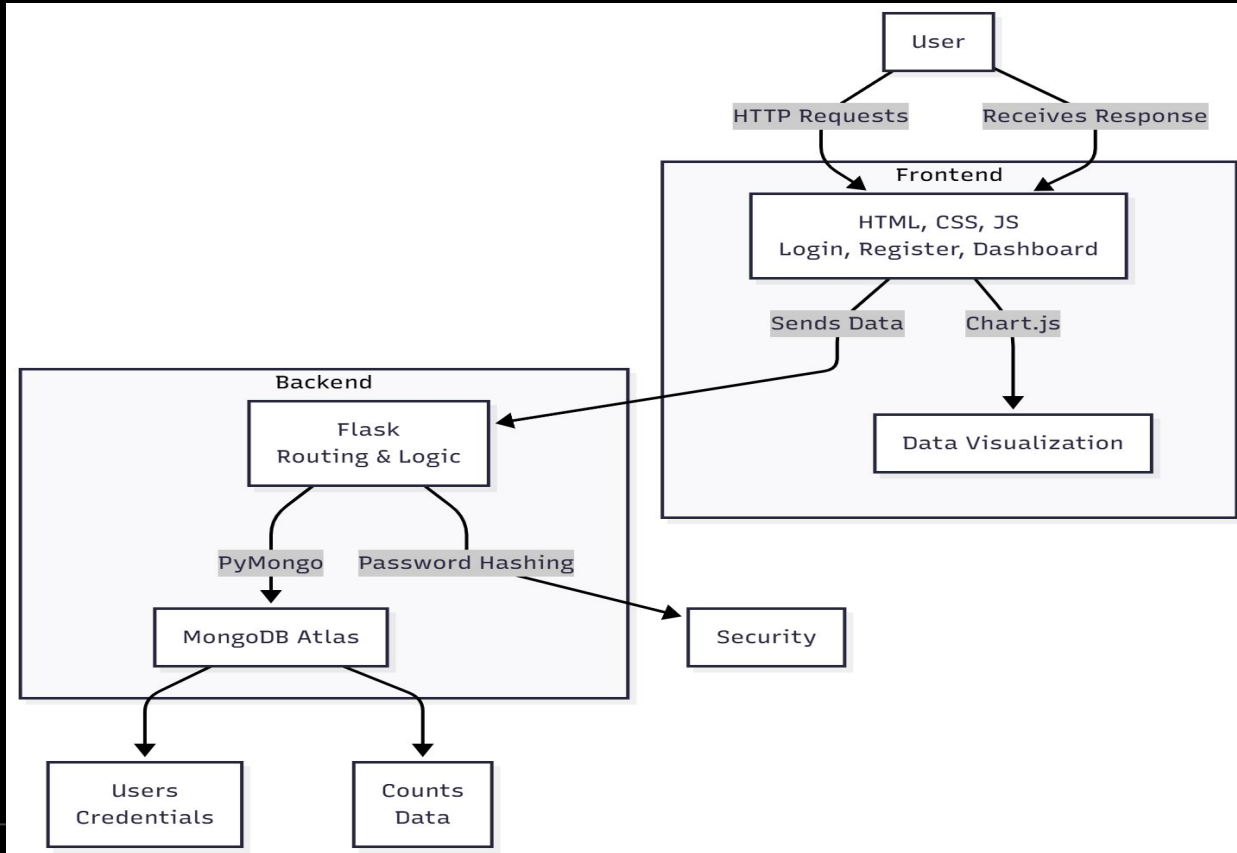
- Secure registration and login with password hashing.
 - Session management for access control.
 - Dashboard: Home: Personalized welcome page.
 - Count Analysis: Submit counts and visualize with Chart.js.
 - History: Table of past count submissions.
 - Profile: Display username, email, join date.
 - Logout: Secure session termination.
- Responsive Design: Clean, modern UI with CSS styling.

System Architecture

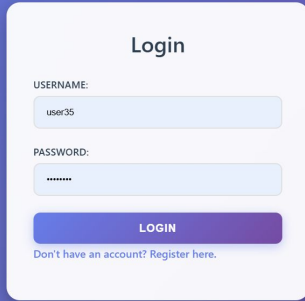
Frontend:

- HTML templates for login, registration, and dashboard pages.
 - CSS for responsive design.
 - JavaScript with Chart.js for data visualization.
- ## Backend:
- Flask for routing and logic.
 - Flask-PyMongo for MongoDB integration.
- ## Database:
- MongoDB Atlas with 'users' and 'counts' collections.
 - Stores user credentials and count data.
- ## Security:
- Password hashing with Werkzeug, session-based authentication.

System Architecture Diagram



Outputs(Screenshot)



A screenshot of a login form on a purple gradient background. The form is white with rounded corners and a subtle shadow. It features a title 'Login' at the top, followed by 'USERNAME:' and a text input field containing 'user35'. Below that is 'PASSWORD:' and a password input field with masked characters. A blue 'LOGIN' button is at the bottom, with a link 'Don't have an account? Register here.' underneath.

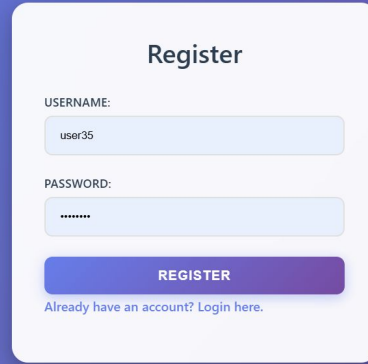
Login

USERNAME:
user35

PASSWORD:

LOGIN

[Don't have an account? Register here.](#)



A screenshot of a register form on a purple gradient background. The form is white with rounded corners and a subtle shadow. It features a title 'Register' at the top, followed by 'USERNAME:' and a text input field containing 'user35'. Below that is 'PASSWORD:' and a password input field with masked characters. A blue 'REGISTER' button is at the bottom, with a link 'Already have an account? Login here.' underneath.

Register

USERNAME:
user35

PASSWORD:

REGISTER

[Already have an account? Login here.](#)