SecureCalc Project Plan

Project Status Update ? SecureCalc Web App

Date: May 22, 2025

Overview:

The SecureCalc project was initiated last week with the goal of developing a secure, user-authenticated web calculator. The application allows users to register, log in, perform arithmetic operations, view results, and securely manage sessions.

Progress Summary (Week 1):

? HTML Pages Completed:

- signup.html, login.html, home.html, result.html, and base.html fully developed for frontend functionality.

? Authentication Module Implemented:

- User registration and login are functional.

- Passwords are securely stored using werkzeug.security hashing functions.

- Sessions are managed securely via Flask.

? View Module Created:

- Templates are rendered dynamically based on user session state.

? User Data Storage Updated:

- Transitioned from file-based (CSV/JSON) to SQLite for improved data management and scalability.

? Arithmetic Functionality Module Added:

- A dedicated class has been created to handle six arithmetic operations: Add, Subtract, Multiply, Divide, Modulus, and Power.

? Routing Setup:

- Flask routes have been defined for all major functionalities, including authentication, calculations, and page rendering.

Next Steps (Week 2 Plan):

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Integrate arithmetic logic with user interface.

Display results dynamically on result.html.

Implement error handling (e.g., divide by zero, invalid input).

Ensure each session is user-specific.

Status:

? On Track

The project is on schedule with all Week 1 deliverables completed. Work will now transition into Week 2 tasks focusing on core calculator logic and result management.