# 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):

1. Integrate arithmetic logic with user interface.
2. Display results dynamically on result.html.
3. Implement error handling (e.g., divide by zero, invalid input).
4. 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.