

Weekly Progress Report – Week 04

Name: Aman Saini

Domain: Web Development

Date of Submission: September 4, 2025

Week Ending: 04

I. Overview:

This week, I focused on deploying my web project online and understanding how deployment platforms work. I practiced hosting both frontend and backend parts of the application, learned about environment variables in production, and explored authentication basics.

II. Achievements:

1. Project Deployment:

Successfully deployed my portfolio website on Netlify.

Deployed the backend (Node.js + Express + MongoDB) on Render/Heroku.

Configured environment variables for database connection in production.

2. Authentication Basics:

Learned about user authentication and implemented a simple login system using Express.js and MongoDB.

Applied password hashing with bcrypt.js for security.

3. Frontend Improvements:

Enhanced the UI with better styling and animations.

Added success/error messages for form submission.

III. Challenges and Hurdles:

1. Faced issues while deploying backend to Render due to server configuration.

Solved it by updating start scripts in package.json and setting correct environment variables.

2. Difficulty in implementing secure login functionality.

Overcame this by studying bcrypt.js documentation and small tutorial projects.

IV. Lessons Learned:

1. Learned the complete process of deploying full-stack applications.

2. Understood the importance of securing sensitive data with environment variables.

3. Gained hands-on experience in user authentication.

4. Realized how real-world apps require both frontend polish and strong backend security.

Closing Note:

Week-04 gave me practical experience in deployment and security, which are crucial for real-world projects. With authentication and hostin

g in place, my portfolio project is becoming a fully functional full-stack application.