Sprint 1: Authentication Setup (Backend)

Goal:

Implement secure user authentication with register and login endpoints.

User Story:

"As a user, I want to register and log in securely so I can access my inventory."

Tasks:

1. Create User Model - Completed

- Fields: name, email, password

- Hash password before saving using bcrypt

2. Create Auth Routes - Completed

- POST /api/auth/register - Register new user

- POST /api/auth/login - Login and receive JWT

3. Generate JWT Token - Completed

- Use jsonwebtoken

- Sign token with user ID and secret key

4. Middleware - Completed

- Create authMiddleware.js to protect routes by verifying JWT

5. Test - Completed

- Use Postman or Thunder Client to test register and login routes

- Confirm JWT is returned and can be verified

Dependencies Needed:

- express

- mongoose

- bcryptjs

- jsonwebtoken

- dotenv

- nodemon (dev)

Deliverables:

- User model with hashed password - Completed

- Working auth routes (register, login) - Completed

- JWT token on successful login - Completed

- Auth middleware for route protection - Completed

Next Sprint:

- Materials CRUD

- User Story: "As a user, I want to manage materials so I can keep track of inventory items."