**Final Project Proposal**

**Project Title & Concept**

ShopWise – An e-commerce platform that allows users to browse, add products to a cart, and securely check out.

**Core Features**

1. Product Categories – Display items/products with images, descriptions, prices
2. Shopping Cart – Users can add or remove items and see the total price.
3. Accounts – User can register and sign in through their accounts.

**Frontend Structure**

**Components -** Navbar, Product List, Cart, Checkout, Login Form, RegisterForm

**Routes** - /, login, register, cart,

**DataFlow –** Axios fetches product and user data from FastApi Endpoints

**Backend Api**

/api/register – Create a new user

/api/login – Authenticate user

/api / products – Get list of all products

/api / cart – Get current user’s cart

**Auth Plan**

Passwords hashed with bcrypt

Protected routes for cart and orders.

**Users Table**

* id
* username
* email
* password\_hash

**Stretch Goals**

* Order history page
* Search bar for products