Ideation Phase

Brainstorm & Idea Prioritization

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Project Name: Shopmart

Step-1: Team Collaboration and Problem Statement Selection

The team collaborated to identify limitations in current e-commerce backend systems, especially for small businesses and student projects. The finalized problem statement was:

Most e-commerce backends lack modularity, secure authentication, feedback mechanisms, and order/product management APIs tailored for scalable and secure deployment.

Step-2: Brainstorming, Idea Listing and Grouping

Idea Description	Category
JWT-based Auth System	Authentication
Modular Product CRUD API	Product Management
Order Placement and History	Order Management
Admin/User Role Separation	Access Control
User Feedback Collection	Support/Feedback
RESTful API Architecture	Backend/API Design
MongoDB-Based Scalable DB	Database Design
JWT-Protected Middleware	Security
Feedback Dashboard (Future)	Visualization
Email Notifications (Future)	Communication

Grouped into three main backend-focused categories:

- Secure and Modular APIs

- User and Order Management

- Support and Extensibility

Step-3: Idea Prioritization

Idea	Impact	Effort	Priority Level
JWT-based Auth System	Very High	Medium	High
Modular Product CRUD API	High	Medium	High
Order Placement and History	Very High	Medium	High
Admin/User Role Separation	Medium	Low	Medium
User Feedback Collection	Medium	Low	Medium
RESTful API Architecture	High	Low	High
MongoDB-Based Scalable DB	High	Medium	High
JWT-Protected Middleware	High	Low	High
Feedback Dashboard	Medium	Medium	Medium
Email Notifications	Medium	Medium	Medium

Final Prioritized Ideas (to be included in MVP)

- JWT-based Auth System

- Product CRUD API

- Order Placement & History

- User Feedback Collection

- RESTful API with JWT Middleware