

E-Commerce Website Product Backlog

Project Goals and Functional Requirements

The primary goal of this e-commerce website is to provide a seamless shopping experience for customers by implementing critical functionalities, including user authentication, product management, order processing, and customer support. The system should be secure, scalable, and efficient to handle transactions and user interactions.

Functions, Features, or Epics

1. **Search**
2. **Filter and Sorting**
3. **Wishlist/Favorites**
4. **Shopping Cart**
5. **Checkout and Payment**
6. **Signup**
7. **Login**
8. **User Management**
9. **Dark Mode & UI Customization**
10. **Reviews**
11. **Size Quiz**
12. **Style Quiz & AI Outfit Suggestions**
13. **Guest Checkout**
14. **Rating**
15. **Discount and Promo Codes**
16. **Outfit Builder**
17. **Loyalty Program**
18. **Inventory Management**
19. **Customizable Products**

20. Social Media Integration

21. Admin Site

22. Live Chat Support

23. Push Notifications & SMS Alerts

User Stories Organized by Feature

1. User Authentication & Authorization

1. As a visitor, I want to register an account so that I can make purchases and track my orders.
2. As a registered user, I want to log in securely so that I can access my personal dashboard.
3. As a user, I want to reset my password so that I can regain access to my account if I forget it.
4. As an admin, I want to manage user accounts so that I can block or remove fraudulent users.
5. As a user, I want to edit my profile information so that I can update my name, email, and other details.

2. Product Management

6. As an admin, I want to add new products so that I can expand the store's inventory.
7. As an admin, I want to edit product details so that I can correct any mistakes or update prices.
8. As an admin, I want to delete products so that I can remove outdated or unavailable items.
9. As a user, I want to view product details so that I can make an informed purchase decision.

10. As a user, I want to see related products so that I can find similar items of interest.

3. Shopping Cart

11. As a user, I want to add items to my cart so that I can purchase multiple products at once.

12. As a user, I want to remove items from my cart so that I can change my mind before checkout.

13. As a user, I want to update item quantities in my cart so that I can buy the exact amount I need.

14. As a user, I want to view the total price in my cart so that I can see how much I am spending.

15. As a user, I want to see shipping and tax costs in my cart so that I know the final cost before checkout.

4. Order Management

16. As a user, I want to place an order so that I can purchase my selected items.

17. As an admin, I want to view all orders so that I can manage fulfillment efficiently.

18. As a user, I want to view my order history so that I can track past purchases.

19. As an admin, I want to update order status (processing, shipped, delivered) so that customers are informed.

20. As a user, I want to cancel an order within a certain time frame so that I can change my mind if needed.

5. Payment Gateway Integration

21. As a user, I want to choose from multiple payment options so that I can use my preferred method.

22. As a user, I want to securely enter my payment details so that my financial data remains safe.

23. As a user, I want to receive a payment confirmation so that I know my transaction was successful.
24. As an admin, I want to issue refunds so that I can handle customer disputes or returns.
25. As a user, I want to save my payment information (optional) so that I can check out faster in the future.

6. Search & Filtering

26. As a user, I want to search for products by name or category so that I can quickly find what I need.
27. As a user, I want to filter products by price, brand, and availability so that I can narrow down my choices.
28. As a user, I want to sort products by popularity, rating, or price so that I can shop based on my preferences.

Non-Functional Requirements

- **Security:** Implement HTTPS, and data protection measures
- **Platform:** Web-based application supporting major browsers, hosted on AWS.
- **Operating System:** Compatible across Windows, MacOS, Android, and iOS.
- **Programming Language:** React.js for frontend, Node.js/Express.js for backend.
- **Performance:** Ensure fast load times with caching and optimized database queries.
- **Scalability:** Design infrastructure to handle increasing traffic and transactions.
- **Data Storage:** Use relational databases (PostgreSQL/MySQL) and NoSQL.
- **Payment Processing:** Using Stripe.

Project Management Tools

To manage the backlog and track progress, the following tools can be used:

- **GitHub:** Version control and collaboration.
 - **YouTrack/Jira:** Task management and sprint planning.
 - **Discord/iMessage:** Team communication and coordination.
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