



LAXSTORE

DOCUMENTATION

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SUMMARY

Developer: Vhugala Mutshembe (Solo Developer)

Project Name: **LaxStore**

Technologies: Python, Flask, HTML5, CSS, JavaScript, SQL (for database management), APIs (for ID validation and insurance data integration)
Security Enhanced with bcrypt for strong password hashing and additional security measures to protect user data.

Status: Ongoing



OVERVIEW

LaxStore: The Ultimate Streetwear Hub

LaxStore is a vibrant and dynamic online platform dedicated to streetwear enthusiasts. Our website is designed to be a hotspot for all streetwear brands, offering a diverse and colorful shopping experience.

Streetwear at its finest

Mission: LaxStore aims to be the go-to destination for streetwear lovers, offering a curated selection of the latest and greatest brands. We strive to provide a secure, user-friendly, and visually appealing shopping experience that celebrates the spirit of streetwear fashion.



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GOALS



USER STORIES



KEY FEATURES

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GOALS

- Simplify the online shopping experience.
- Provide a secure and seamless payment process.
- Allow sellers to manage their inventory and orders efficiently.
- Provide a responsive website.

USER STORIES

1. **As a new user**, I want to register for an account, so that I can start using the application.
2. **As a returning user**, I want to log in to my account, so that I can access my personalized features.
3. **As a customer**, I want to browse products, so that I can find items I am interested in.
4. **As a customer**, I want to add products to my cart, so that I can purchase them later.
5. **As a customer**, I want to proceed to checkout with the items in my cart, so that I can complete my purchase.
6. **As a customer**, I want to view my order history, so that I can track my past purchases.
7. **As a seller**, I want to add new products, so that I can sell them to customers.
8. **As a seller**, I want to view orders placed by customers, so that I can fulfil them.

KEY FEATURES

1. **User Registration and Authentication**
 - Secure registration and login with roles (customer or seller).
2. **Profile Management**
 - View and update user profile information.
3. **Product Browsing and Searching**
 - Browse products by categories.

- Search functionality to find specific products.

4. Shopping Cart

- Add products to the cart.
- View and manage items in the cart.

5. Checkout and Payment

- Multiple payment options: credit card, PayPal.
- Secure payment processing and order confirmation.

6. Order Management

- View order history and track order status.
- Sellers can manage orders and update statuses.

7. Product Management for Sellers

- Add, update, and delete product listings.
- View and manage orders received.

8. Map Integration for Address Input

- Use maps to locate delivery addresses instead of manually entering addresses.

9. Cross-Platform Compatibility

- A responsive website to complement the mobile app.



ARCHITECTURE

Frontend:

- **Technologies:** React.js (for web), React Native (for mobile)
- **Description:** Develops the user interface and ensures a seamless user experience.

Backend:

- **Technologies:** Node.js, Express.js
- **Description:** Manages server-side logic, user authentication, and secure payment processing.

Database:

- **Technologies:** PostgreSQL
- **Description:** Stores user data, product information, order history, and transaction records.



APIs:

- Internal APIs: User Authentication
 - Product Management
 - Order Processing
- 3rd Party APIs: Payment Gateway API (e.g., Stripe, PayPal)
 - Map API (e.g., Google Maps API)

Mockups

1. User Registration View
2. User Login View
3. User Profile View
4. Product Listing View
5. Product Detail View
6. Shopping Cart View
7. Checkout View
8. Order Confirmation View
9. Order History View
10. Seller Product Management View
11. Seller Order Management View

Creating visual mockups for each view helps stakeholders and developers understand the UI design and functionality. Here are detailed mockup descriptions for the essential views in your MVP:

1. User Registration View

Description: A form for new users to register an account.

Mockup:

2. User Login View

Description: A form for users to log in to their accounts.

Mockup:

3. User Profile View

Description: Displays user profile information and allows updates.

Mockup:

4. Product Listing View

Description: Displays a list of available products.

Mockup:

5. Product Detail View

Description: Displays detailed information about a specific product.

Mockup:

6. Shopping Cart View

Description: Displays items in the user's cart and allows management of the cart.

Mockup:

7. Checkout View

Description: Allows users to enter payment and shipping details to complete the purchase.

Mockup:

8. Order Confirmation View

Description: Displays a confirmation message after a successful checkout.

Mockup:

9. Order History View

Description: Displays a list of past orders with details.

Mockup:

10. Seller Product Management View

Description: Allows sellers to manage their products.

Mockup:

11. Seller Order Management View

Description: Allows sellers to view and update the status of orders.

Mockup:



PROJECT TIMELINE

Phase 1: Planning and Design (2024-09-16 till 2024-09-19)

- Define project scope and requirements.
- Create user stories and mockups.
- Design the overall architecture.

Phase 2: Development (2024-09-23 till 2024-10-14)

- Set up the development environment.
- Develop frontend components (web and mobile).
- Develop backend services and APIs.
- Integrate with 3rd party APIs.

Phase 3: Testing (2024-10-12 till 2024-10-14)

- Perform unit testing and integration testing.
- Conduct user acceptance testing (UAT).
- Fix any bugs or issues identified during testing.

Phase 4: Deployment and Launch (2024-10-15 till 2024-10-16)

- Deploy the application to production servers.
- Monitor the Website and gather user feedback.

Phase 5: Post-Launch Support (Ongoing)

- Provide ongoing maintenance and support.
- Release updates based on user feedback.
- Continuously improve and add new features.