**Laptop Harbour Mobile Application Documentation**

Project Overview

**\*\*App Name\*\*:** LaptopHarbour

**\*\*Technology Used\*\*:** Flutter and Dart

**\*\*Faculty Mentor\*\*:** Sir Zaman

**\*\*Project Members\*\*:**

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**\*\*Introduction\*\*:**

LaptopHarbour is a mobile application designed to streamline the process of browsing, comparing, and purchasing laptops and related accessories. It connects consumers with retailers offering a wide variety of laptops and accessories, simplifying the decision-making process through intuitive navigation and powerful features.

**Background and Objective**

The primary objective of LaptopHarbour is to create an easy-to-use platform where users can explore various laptop models based on their preferences, including brand, price, and specifications. The app aims to provide users with detailed information on laptops, allowing them to make informed decisions by comparing models and prices. Additionally, LaptopHarbour enhances the online laptop shopping experience by offering product reviews, a seamless shopping cart feature, and real-time order tracking.

**Functional Requirements**

**1. \*\*User Registration and Authentication\*\*:**

- Secure registration and login options.

- Profile management with password reset and updates to personal information.

**2. \*\*Product Listings\*\*:**

- Comprehensive listing of laptop products, organized by categories like brand, price, and specifications.

- Filters and sorting options to refine searches and streamline product discovery.

- Display of essential product information including name, image, price, and ratings.

**3. \*\*Product Details and Reviews\*\*:**

- Detailed product pages featuring specifications, high-quality images, and user reviews.

- Option for users to leave reviews and rate products based on their experiences.

**4. \*\*Shopping Cart\*\*:**

- Users can add products to a cart and view a summary of selected items.

- Ability to modify or remove products from the cart.

**5. \*\*Checkout Process\*\*:**

- Input of shipping and billing information.

- Calculation of total order amount including taxes and shipping fees.

- Order confirmation emails sent upon successful payment.

**6. \*\*Order Tracking\*\*:**

- Users can track the status of their current orders and view order history.

- Real-time order tracking with shipping details and notifications for status updates.

**7. \*\*User Profile and Settings\*\*:**

- Personal profile section for managing preferences and contact information.

- Ability to change the profile picture and update contact details.

**8. \*\*Search Functionality\*\*:**

- Users can search for specific laptop models or brands.

- Filters to narrow search results based on user preferences.

**9. \*\*Wish List\*\*:**

- Users can add products to a wish list for future reference.

- Accessible from the user’s profile.

**10. \*\*Feedback and Support\*\*:**

- In-app customer support and feedback forms for user inquiries and assistance.

**Non-Functional Requirements**

**- \*\*Usability\*\*:** The app is designed to be user-friendly with an intuitive interface, ensuring seamless navigation.

**- \*\*Performance\*\*:** Efficient load times and real-time updates for a smooth user experience.

**- \*\*Security\*\*:** Data protection mechanisms to ensure the privacy of users and secure transactions.

**- \*\*Reliability\*\*:** The app ensures stable and reliable access to all its functionalities.

**Design Specifications**

**- \*\*User Interface (UI)\*\*:**

The UI is designed with clarity and ease of navigation, featuring categorized sections for laptops and accessories. Search filters allow users to find products based on style, brand, price, and specifications.

**- \*\*Product Customization\*\*:**

Users have the option to save their favorite items or design a virtual room, dragging and dropping selected laptops or accessories to visualize how they would fit into a specific setup (future feature).

**- \*\*E-Commerce Features\*\*:**

The platform supports a seamless checkout process with multiple payment options, including credit cards and digital wallets. Order tracking and customer support are integral parts of the overall user experience.

**Conclusion**

The LaptopHarbour mobile application offers an efficient, user-friendly platform for purchasing laptops and accessories. With features that simplify navigation, purchasing, and order tracking, it aims to be the go-to solution for users seeking an improved online shopping experience for laptops.