PotPal

Vision Document

Version <1.0>

Revision History

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Vision (Small Project)

# Introduction

## The purpose of this document is to collect, analyze, and define high-level needs and features of the Potpal. It focuses on the capabilities needed by the stakeholders and the target users, and why these needs exist. The details of how the Potpal fulfills these needs are detailed in the use-case and supplementary specifications.

## References

# Positioning

## Problem Statement

| The problem of | The need for buying laptop devices from reliable distributor with reasonable price |
| --- | --- |
| affects | Students, business men, anyone who looking for a laptop |
| the impact of which is | Confusion, wasted time, and potentially purchasing the wrong bad product, leading to dissatisfaction and financial loss. |
| a successful solution would be | A user-friendly platform that makes it easy to compare, filter, and purchase laptops based on individual needs, offering clear information, competitive pricing, and reliable customer support. |

## 

| The problem of | Slow page loading times or poor website performance |
| --- | --- |
| affects | Users who want a fast and smooth experience when browsing product information |
| the impact of which is | Confusion, wasted time, and potentially purchasing the wrong bad product, leading to dissatisfaction and financial loss. |
| a successful solution would be | Optimizing website performance by reducing image sizes, implementing effective caching, and optimizing code, resulting in faster loading times and a better user experience. |

## 

## Product Position Statement

| For | Students, professionals, and general consumers |
| --- | --- |
| Who | Need an easy and efficient way to find and purchase laptops tailored to their specific needs |
| The (product name) | PotPal is a comprehensive e-commerce platform for laptops |
| That | offers a curated selection of laptops with user-friendly comparison tools, personalized recommendations, and transparent pricing |
| Unlike | generic online marketplaces or physical electronics stores |
| Our product | focuses on delivering a tailored shopping experience, providing detailed product insights |

# Stakeholder and User Descriptions

## Stakeholder Summary

| **Name** | **Description** | **Responsibilities** |
| --- | --- | --- |
| Project team member | Group of 5 students that involve in the development process | Design, develop, and integrate all website features; maintain clear communication and collaboration within the team; ensure the project is completed to meet academic and user experience standards; troubleshoot and resolve any technical challenges during the development process. |
| Project advisor | Professor/teacher overseeing the project as part of the course curriculum. | Ensures the project meets academic and technical standards; monitors project progress; assesses team collaboration, implementation quality, and adherence to deadlines; provides feedback and guidance to improve technical skills and project outcomes. |

## User Summary

| User | Description | Responsibilities | Stakeholder |
| --- | --- | --- | --- |
| Customer | | The end-user who browses and purchases laptops. | | --- | | - Browse products  - Add items to cart  - Complete checkout  - Manage account settings (e.g., order history, personal information) | Customers purchasing laptops |
| Admin | | Manages the website and oversees operations. | | --- | | - Manage product listings (add, edit, delete)  - Process orders  - Manage user accounts  - Analyze sales data and generate reports | Business owners or management |
| Admin |  |  |  |

## User Environment

* **People Involved:** Primarily a single individual, but occasionally may involve friends or family members helping with the decision-making process.

* **Task Cycle:** Short and straightforward, typically a few minutes to an hour. Tasks involve searching for products, reading descriptions, comparing products, adding items to the cart, and completing purchases. Repeat visits may be necessary for product updates or reorders.

* **Environment Constraints:** Primarily desktop or mobile devices at home, office, or on-the-go.

* **System Platforms:** Primarily web-based, accessed through browsers on desktop and mobile devices.

* **Other Applications:** Users may rely on product review sites or comparison tools, but no direct integrations are required within the platform.

## Alternatives and Competition

**Competitor : Amazon**

* Amazon is a global e-commerce leader with a wide selection of laptops, competitive pricing, and extensive customer reviews.
* Strengths**:**
  + Vast product selection across brands and price ranges.
  + Prime benefits like fast shipping and customer service support.
  + Trusted reviews and a well-established reputation for reliability.
* Weaknesses**:**
  + Overwhelming number of options, which can be confusing for customers with specific needs.
  + Less specialized focus on laptops; technical details may be less highlighted or accurate.
  + Some smaller sellers may list products with varying levels of quality control.

# Product Features

| **No.** | **Feature** | **Description** | **Priority** |
| --- | --- | --- | --- |
| 1 | Customer Account Management | Personal details such as: addresses, phone number, email, contact information, ect. | High |
| 2 | Register and Login | Implement sign-in and sign-up methods, including traditional email/password options as well as social login through platforms like Facebook and Gmail. | High |
| 3 | Products Searching | Let users search for products based on name | High |
| 4 | Product Filtering | Enable users to filter products based on various criteria such as brand, price, release date, and specifications. | Medium |
| 5 | Manage Wishlist | Enable users to save items of interest for future purchases (wishlist). | Medium |
| 6 | Manage Cart and Checkout | - Support various payment methods, including credit cards.  - Calculate shipping costs to help customers approximate the total order cost. | High |
| 7 | View Detail Product | A dedicated page for viewing detailed product information, stock, specifications, price, … | High |
| 8 | Coupon and Discount | A discount code system enables customers to use promotional codes at checkout for discounts. | Low |
| 9 | Sales & inventory managements | - Provide vendors with tools to track and manage orders.  - Manage product lists, restock, … | High |
| 10 | Product Recommendation | Analyze & recommend these related, best-seller products. | Medium |
| 11 | Submit and View Feedback and Reviews | - Allow customers to provide feedback through ratings and reviews.  - Allow users to view products through reviews and ratings.  - Consider offering incentives (such as coupons) for leaving reviews. | Medium |
| 12 | Notify via email | Send email notifications to users for wishlist, promotions, and order updates. | Medium |

# Non-Functional Requirements

Non functional requirements:

* Accessibility and Web Standards: The website must comply with standards to ensure usability for users with disabilities.

* Hardware and Platform Requirements : The platform should be tested and optimized for a variety of devices, from entry-level smartphones to high-end laptops, ensuring smooth performance.

* Performance Requirements : The system must support up to 10,000 concurrent users without significant degradation in performance, orders, payment processing, and inventory updates should be completed within 5 seconds to provide a smooth checkout experience.