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Introduction

This project aims to develop a comprehensive understanding of the requirements for Advanced Smart Inventory Stock Management System by identifying its key stakeholders, defining its core functionalities, and specifying quality expectations. By outlining both functional and non-functional requirements, the project will create a roadmap that aligns with stakeholder needs, ensures usability, and maintains high performance standards. This approach will provide a structured framework for the development and implementation phases, ensuring the project meets all necessary criteria for success.

Purpose

The purpose of this project is to deliver a system that fulfills the primary objectives of Advanced Smart Inventory Stock Management System by addressing specific user needs and ensuring the system's reliability, usability, and performance. Defining clear requirements will enable targeted development, minimize potential misalignment with user expectations, and establish benchmarks for evaluating the system's effectiveness. Through this process, the project seeks to create a solution that not only meets technical standards but also provides value to its stakeholders.

Stakeholders

Customers
Description: Customers are the primary users of the system, interacting directly with it to make purchases, view products, or access services. Their experience with the system is crucial, as it affects their satisfaction and loyalty. Customers expect the system to be user-friendly, secure, and efficient, with fast responses and easy navigation. Interests: Customers want a seamless, intuitive experience that meets their needs quickly and securely. They are primarily concerned with system usability, reliability, and the protection of their personal information.

Manager
Description: Managers oversee day-to-day operations and ensure the system aligns with organizational goals. They may use the

system to monitor performance, analyze sales data, or make strategic decisions. Managers are often responsible for assessing system effectiveness and suggesting improvements. Interests: Managers are focused on efficiency, data accuracy, and the ability to generate reports that support decision-making. They prioritize functionality that enhances productivity and provides actionable insights.

Store Owner
Description: Store owners are stakeholders with a vested interest in the success of the system, as it directly impacts their business's performance and profitability. They may use the system for inventory management, tracking sales, and managing customer relations. Store owners are also concerned with overall system reliability and scalability. Interests: Store owners are interested in features that streamline operations, improve customer satisfaction, and support business growth. They prioritize the system's scalability, dependability, and ability to handle business demands as they evolve.

External Regulatory Body

Description: External regulatory bodies ensure that the system complies with industry standards, legal regulations, and security requirements. This may include standards for data privacy, financial transactions, or other specific industry compliance needs. Interests: Regulators are concerned with security, data protection, and compliance with local or international laws. They need the system to adhere to strict regulatory standards to protect consumer rights and data.

Board Members

Description: Board members are typically high-level stakeholders who focus on the overall impact of the system on business goals and profitability. Although they may not interact with the system directly, they are interested in its success, as it reflects the company's performance and strategic direction. Interests: Board members seek assurance that the system supports the organization's vision and financial goals. They are interested in system reliability, cost-effectiveness, and long-term scalability, as well as risk management and compliance with high-level strategic objectives.

Functional Requirements

- The system shall notify users when a searched product is out of stock and offer an option to place an order for additional stock.

- Users shall be able to add products to a shopping cart, accessible via an icon located in the application's top-right corner.

- The system shall calculate and display the total cost of items in the shopping cart.
- The system shall support secure payments through credit card or PayPal.

Non-Functional Requirements

- The system shall encrypt passwords to ensure user security.
- The application's homepage shall display only products currently in stock.
- The system shall provide discounts and promotions, determined by product availability.
- The system shall recommend related products based on the user's previous purchases.