

**FOUNDATION UNIVERSITY RAWALPINDI CAMPUS**

Project Proposal



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**SECTION:** BSSE 5B

**SUBJECT:** Software Construction and Development

**TOPIC:** Semester Project

**SUBMITTED TO:** MS. Ch Waqas Ahmed

***Online Pharmacy Store***

1. **Background/Introduction of the System:**

As we all know that in recent years, the healthcare industry has witnessed a significant transformation in the way medical services and pharmaceutical products are accessed and delivered. The advent of digital technology and the internet has brought about a paradigm shift in how individuals and healthcare providers interact with pharmacies. One notable outcome of this transformation is the emergence of online pharmacy stores. It envisions a future where individuals can easily access the medications and healthcare products they need, anytime and anywhere.

1. **Problem Statement ( Problem that software system will solve):**

Traditional pharmacies often face challenges related to limited operating hours, long wait times, and the need for physical visits. Moreover, the COVID-19 pandemic highlighted the importance of remote access to healthcare services. The Online Pharmacy Store System addresses these issues by offering a digital platform that bridges the gap between patients and pharmaceutical products, ensuring accessibility, convenience, and safety. The software system seeks to improve inventory tracking, reduce errors, and provide a user-friendly platform for customers to order medications online. By solving these problems, the pharmacy can enhance its efficiency, accuracy, and customer satisfaction, ultimately leading to increased revenue and better healthcare outcomes.

1. **Business Objectives and Preliminary Requirements ( SRS Document ):**

**Business Objectives:**

The Online Pharmacy Store System is being developed to achieve several key business objectives:

* + - * + **Enhanced Accessibility**: The primary goal of the system is to provide a convenient and accessible platform for individuals to purchase pharmaceutical products and access healthcare services online, ensuring that users can obtain medications easily.
* **Healthcare Information:** Providing comprehensive healthcare information, including detailed medication descriptions, dosage guidelines, potential side effects, and drug interactions, to empower users with knowledge to make informed decisions about their health.
* **Improved Convenience:** The system aims to simplify the process of acquiring prescription and over-the-counter medications, allowing users to place orders, manage prescriptions, and receive deliveries from the comfort of their homes.

**Preliminary Requirements:**

The following are the preliminary functional and non-functional requirements that serve as the foundation for the development of the Online Pharmacy Store System:

**Functional Requirements:**

* **User Registration and Authentication:** Users must be able to create accounts, log in securely, and manage their profiles.
* **Product Catalog:** The system should maintain an up-to-date catalog of pharmaceutical products, including detailed descriptions and pricing.
* **Medication Ordering:** Users should be able to add medications to their cart, place orders, and specify delivery details.
* **Health Information and Education:** Provide access to comprehensive healthcare information, including medication details, dosage instructions, and health-related articles.
* **Order Tracking:** Users should be able to track the status of their orders and receive real-time updates on delivery.
* Secure Payment Processing: Ensure secure online payment options for purchases.

**Non-Functional Requirements:**

* **Security:** The system must add industry-standard security protocols to protect user data, including sensitive health information.
* **Scalability:** The system should be scalable to accommodate a growing user base and increased product listings.
* **Performance:** Ensure fast loading times and responsiveness, even during peak usage periods.
* **User Experience:** Designing an intuitive and user-friendly interface to enhance the overall user experience.

1. **Current Situation and Opportunity Statement ( Current Problems and Solution):**

**Current Problems:**

The current pharmaceutical market primarily relies on traditional brick-and-mortar pharmacies, which present several challenges:

* Limited Accessibility: Many individuals, especially those with mobility issues, face challenges accessing essential medications and healthcare services promptly.
* Inconvenience: Traditional pharmacies require physical visits, often resulting in long wait times and limited operational hours.
* Health Information Gap: There is a lack of easily accessible and comprehensive healthcare information, including medication details and dosage guidelines.

**Solution:**

The Online Pharmacy Store System addresses these problems by providing a digital platform that offers accessibility, convenience, healthcare information, prescription management, health monitoring, and pharmacist consultation. This platform will provide 24/7 accessibility to medications, enabling patients to order prescriptions from the comfort of their homes. It can offer a streamlined prescription management system, reducing errors and improving adherence. Furthermore, it opens up opportunities for enhancing overall healthcare access. The digital platform can also facilitate the tracking of medication history and provide valuable health information.

1. **Options and Recommendations ( Potential and Recommended Solution to Problem):**

**Potential Solution:**

The development of the Online Pharmacy Store System with the following features:

* User registration and authentication.
* Product catalog management.
* Medication ordering and prescription uploads.
* Comprehensive health information and education resources.

**Recommendation:**

The recommended solution should align with the project's objectives and budget constraints. The ultimate choice should balance functionality, user experience, regulatory compliance, and financial viability, ensuring it effectively addresses the identified problems while aligning with the pharmacy's strategic goals. Thoroughly analyzing these options and providing a well-justified recommendation is crucial for the project's success. Based on the identified problems and market demand, it is recommended to proceed with the development and deployment of the Online Pharmacy Store System.

1. **Schedule Estimate ( Estimated Completion time of Project ):**

**Estimated Completion Time of Project:**

The estimated project timeline is approximately 4 months, including the following phases:

* Requirements gathering and analysis: 1 week
* System design and architecture: 1 week
* Development and testing: 2 week
* Deployment: 1 week
* Post-launch monitoring and optimization: Ongoing

1. **Potential Risks and Mitigation Plan ( Uncertainty and Plan Bs ):**

**Potential Risks:**

* **Security Concerns:** Rigorous security testing and continuous monitoring will be implemented to protect user data and ensure compliance with healthcare regulations.
* **Market Competition:** A comprehensive marketing and user acquisition strategy will be developed to position the Online Pharmacy Store System effectively in the market.
* **Regulatory Changes:** Regular compliance audits will be conducted to adapt to any evolving healthcare regulations.

**Contingency Plans:**

* In the event of significant project delays, an accelerated development plan with additional resources will be activated to maintain the project timeline.
* In case of unforeseen security breaches, a response and recovery plan will be activated to protect user data and address vulnerabilities promptly.