

National Institute of Business Management

Diploma in Software Engineering - DSE23.1F

Software Engineering

Pharmacy Management System – Proposal Report

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Date of Submission: 05/12/2024

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# 1. Introduction

## 1.1 Inventory Management System Report

* In the modern business landscape, efficient inventory management is pivotal for organizational success. An Inventory Management System (IMS) serves as a cornerstone in this endeavor, offering a structured approach to monitoring, controlling, and optimizing inventory levels. This report elucidates the development and implementation of a Java-based IMS, outlining its objectives, methodology, key features, and the contributions of group members.

# 2. Objective

* The core objective behind the creation of our Java-based Inventory Management System is to streamline inventory-related operations, enhance productivity, and mitigate costs associated with inventory mismanagement. By harnessing the power of Java technology, the system aims to provide a robust platform for inventory tracking, procurement management, and reporting.

# 3. Methodology

## 3.1. Introduction

* The project will follow an Agile Development methodology, allowing and interactive development, continuous feedback, and flexibility in adapting to changing requirements.

## 3.2. Data Collection and Methods

* Data collected through different type of platform (ex. Stack Overflow, Google), as well as an analysis of current operational processes. User requirement will be gathered to inform the system design

## 3.3. Software Process Model

* We will adopt the agile software development model, ensuring rapid development cycles, continuous collaboration, and responsiveness to evolving project needs.

## 3.4. Software Development Tools

1. Programming Language: Java
2. Database Management System: MySQL
3. Development Framework: Apache Net Beans IDE
4. Version Control: Git

## 3.5. Testing Strategies

* Testing will encompass unit testing, integration testing, and user acceptances testing, continuous testing throughout development will ensure the system’s reliability and functionality

# 4. Features of the System

* User Authentication: Role-based access control to ensure data security and integrity.
* Data Export: Capability to export inventory data for further analysis or integration with other systems.

# 5. Contribution of Group Members

* Each member of the group made invaluable contributions to the development and implementation of the Java-based Inventory Management System:
* Nuzki (KADSE23.1F-034): Led the requirement gathering phase and played a key role in defining system functionalities.
* Amry (KADSE23.1F-054): Contributed to system design and database management, ensuring optimal performance and data integrity.
* Infaz (KADSE23.1F-059): Spearheaded the development effort, writing code and implementing features in Java.
* Nabeel (KADSE23.1F-002) and Ammar (KADSE23.1-011): Conducted thorough testing to identify and rectify any issues, ensuring the system meets quality standards.

# Summary

* In summary, the Java-based Inventory Management System represents a significant advancement in optimizing inventory processes within the organization. Through collaborative efforts and leveraging Java technology, the IMS is poised to deliver efficiency gains and drive business growth.

# Project Plane

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Dec 20 – Dec 25** | **Dec 26 - Dec 31** | **Jan 01 – Jan 20** | **Jan 20 – Jan 31** | **Feb 1 – Feb 10** | **Feb 11 – Feb 18** |
| **PLANNING** |  |  |  |  |  |  |
| Discuss the topic |  |  |  |  |  |  |
| **ANALYZING** |  |  |  |  |  |  |
| Interview with an IT manager |  |  |  |  |  |  |
| Observe the book company |  |  |  |  |  |  |
| Identify an issue in the system |  |  |  |  |  |  |
| **DESIGN** |  |  |  |  |  |  |
| Organize information |  |  |  |  |  |  |
| Discuss the structure of the project |  |  |  |  |  |  |
| **DEVELOPMENT** |  |  |  |  |  |  |
| Start to write the project |  |  |  |  |  |  |
| **IMPLEMENTATION** |  |  |  |  |  |  |
| **SUBMIT THE PROJECT REPORT** |  |  |  |  |  |  |