**SDLC**

Table of contents

1. Introduction
2. SDLC Overview

2.1 Planning

2.2 Analysis

2.3 Design

2.4 Implementation

2.5 Testing

2.6 Deployment

2.7 Maintenance

3. Conclusion

1. Introduction

This document outlines the Software Development Life Cycle (SDLC) for the development of a ‘Hotel Bulk Purchasing Mobile Application’. The application will enable hotels to purchase bulk items through a mobile platform. The SDLC is a structured approach that ensures the successful development, deployment, and maintenance of the application.

1. **SDLC Overview**
   1. Planning

Objectives:

* To develop a mobile application that enables hotels to purchase bulk items from vendors.

Scope:

* Includes functionalities like user registration, item browsing, order processing, payment handling, and reporting.

Project Plan:

* Define milestones and timeline for each SDLC phase.

Feasibility:

* Assess technical, operational, and financial feasibility.
  1. Analysis

Requirement Gathering:

* Conduct meetings with clients to gather detailed requirements.

Functional Requirements:

* Document the functionalities needed for the application.

Non-functional Requirements:

* Document the performance. Security, usability, and other NFRs.

Gap Analysis:

* Identify any missing or conflicting requirements.
  1. Design

System Architecture:

* Design high-level architectural client-server setup, database design, and application layers.

Database Design:

* Design schema for storing user information, items, order, etc.

User Interface:

* Create mockup for the mobile interface.

Security and Privacy Measures:

* Plane for data encryption, user authentication, and authorization.
  1. Implementation

Coding:

* Develop the mobile application based on the design specifications.

Code Reviews:

* Regularly review code to ensure quality and adherence to standards.

Integration:

* Integrate different modules and ensure they work together seamlessly.

Documentation:

* Maintain detailed documentation for the codebase.
  1. Testing

Test Planning:

* Develop test plans and test cases.

System Testing:

* Test the entire system for overall functionality.

User Acceptance Testing:

* Conduct testing with clients to ensure the application meets their needs.

Bug Fixing:

* Identify and resolve any issues.
  1. Deployment

Preparation:

* Prepare the deployment environment.

Data Migration:

* Migrate any necessary data.

Post Deployment:

* Verify the deployment and conduct final testing if necessary.
  1. Maintenance

Ongoing Support:

* Provide support for any issues that arise post deployment.

Monitoring:

* Monitor system feedback.

Updates and patches:

* Regularly update the system and apply patches.

Future enhancements:

* Plan for improvements based on feedback and/or system performance.

1. **Conclusion**

This document provides a detailed overview of the SDLC for the ‘Hotel Bulk Purchasing Mobile Application’. By following this structured approach, we ensure the successful development, deployment, and maintenance of the application.