**Software Development Life Cycle  
Hotel Ecommerce Application   
Group 2**

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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.