**Laundry Management System – Software Requirements Specification**

**1. Introduction**

1.1 Purpose

The purpose of this document is to specify the requirements for the development of a Laundry Management System for our college.

1.2 Scope

The Laundry Management System will provide a digital solution to manage laundry services for students and staff. It will streamline the process of submitting laundry requests, tracking orders, and managing inventory.

1.3 Definitions, Acronyms, and Abbreviations

* SRS: Software Requirements Specification
* LMS: Laundry Management System
* HTML: HyperText Markup Language
* CSS: Cascading Style Sheets
* JavaScript: Programming language used for web development
* Firebase: Platform for building web and mobile applications

**2. Overall Description**

2.1 Product Perspective

The Laundry Management System will be a standalone web application integrated with a Firebase backend. It will interact with users through a web interface.

2.2 Product Functions

* Allow users to submit laundry requests.
* Enable administrators to manage laundry orders and inventory.
* Provide notifications to users regarding order status updates.
* Generate reports on laundry usage and inventory levels.

2.3 User Classes and Characteristics

* Students: Users who submit laundry requests.
* Administrators: Users who manage laundry orders and inventory.

2.4 Operating Environment

The system will be accessed via web browsers on desktop and mobile devices.

2.5 Design and Implementation Constraints

* The system will be developed using HTML, CSS, JavaScript, and Firebase.
* The user interface should be intuitive and user-friendly.

2.6 Assumptions and Dependencies

* Users will have internet access to use the system.
* The college will provide necessary resources for hosting the application.

**3. Specific Requirements**

3.1 Functional Requirements

1. Users shall be able to register and login to the system.
2. Users shall be able to submit laundry requests, specifying details such as laundry type and pickup/delivery preferences.
3. Administrators shall be able to view and manage submitted laundry requests.
4. Users shall receive notifications regarding the status of their laundry orders.
5. Administrators shall be able to update inventory levels and view usage reports.

3.2 Non-Functional Requirements

1. The system shall be responsive and accessible on different devices and screen sizes.
2. The system shall ensure data security and privacy of user information.
3. The system shall provide fast response times for user interactions.

3.3 External Interface Requirements

* The system shall integrate with Firebase Authentication for user authentication.
* The system shall use Firebase Realtime Database for storing and retrieving data.

3.4 System Features

* User Registration and Login
* Laundry Request Submission
* Order Management
* Inventory Management
* Notification System

**4. Appendices**

No appendices at this time.