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**I. INTRODUCTION**

**Background of the Client**

Due to business concerns, our client is a little cautious regarding their privacy; however, she did tell us that her name is Carol, and that "Kaka" is her nickname. She informed us that their gown rental company is their primary source of income and that it has enabled them to climb out of poverty. It is a family business that was passed down to her by her mother. Despite not disclosing the names of her children or the number of boys or girls she has, our client has successfully graduated all her children from college.

As a matter of course, their business is about renting a gown or any clothes that are necessary for formal events such as weddings, funerals, birthdays or debuts, etc. Our client offers a large selection of gowns or dresses that are quite spectacular, available in a variety of colors and patterns for both men and women.

**Purpose of the Project**

The goal of this rental system project is to simplify the gown rental procedure by enabling online reservations, effectively controlling inventory, and optimizing client communications. The system's main features are its secure transactions, easy-to-use interfaces, and scheduling capabilities for fits and adjustments. Financial transaction tracking, rental agreement recording, and personnel management are all made easier with the use of administrative tools. Analytic connection offers insights into revenue trends, consumer preferences, and business performance. The main goal is to develop an efficient and well-structured platform that improves client satisfaction and maximizes client's gown rental operational effectiveness.

**Overview of the Project**

Our system contains a straightforward interface and a fast transaction with the customer. The following will be the overview of our system or project that we are conducting:

* **Login Module (Front Interface)**
* In this module, the admin will be required to log in their designated account, such as username and password for the end-user to proceed into the next module.
* **Dashboard Module (Admin)**
* On our Dashboard, it contains the totals of gowns, gowns available, clients, gowns rented, gowns returned, damaged or lost, clients in possession and revenue. Also, it features a search bar and a transaction table.
* **Gown Module (Admin)**
* Gown Module contains the Gown management table that shows the details about the gown and where you can add/edit or archive/remove a gown. This module also has a sub tab that includes Category, Rented and Returned sub tabs.
* **POS Module (Admin & Other Employee)**
* In this module, this is where the transaction is being processed. This includes the Customer payment, a Rented gown table, Damaged or lost rented gown table. Additionally, it also has features such as the Search bar, Payment Section, Save and Clear button.
* **Settings Module (Admin)**
* This module includes a sub tab which is Accounts where you can manage an employee thus edit remove or add. This also has the Archive gowns and the transaction log.

**Document Convention**

• Rental - An amount paid or received as rent.

• Formal Events - What you would expect in a ceremonial environment–people dressed in formal wear following a specific official event protocol.

• Spectacular - Beautiful in a dramatic and eye-catching way.

• Simplify - Make (something) simpler or easier to do or understand.

• Optimizing - Make the best or most effective use of (a situation, opportunity, or resource).

• Inventory - Refers to all the items, goods, merchandise, and materials held by a business for selling in the market to earn a profit.

• Scheduling capabilities - Ability to overcome such complex and frustrating

situations by planning your activities.

• Administrative tools - The collective name for several advanced tools in Windows that are used mainly by system administrators.

• Analytic - Examining or liking to examine things in detail.

• Operational Effectiveness - Any kind of practice which allows a business or other organization to maximize the use of their inputs by developing products at a faster pace than competitors or reducing defects.

• End-user - A person or other entity that consumes or makes use of the goods or services produced by businesses.

• Sub-tab - A tab that is part of another tab or section.

• Archive - A place in which public records or historical materials (such as

documents) are preserved.

**III. PROJECT REQUIREMENTS**

**1. Introduction**

**1.1 Document Purpose**

The purpose of this document is to outline the functional and non-functional requirements for the development of "Gown Guru," a web-based Rental System intended to streamline gown rental management for our clients. This document serves as a comprehensive guide for stakeholders, including developers, testers, and project managers.

**1.2 Product Scope**

"Gown Guru" is a desktop-based application designed exclusively for administrators to efficiently manage gown rentals. The system allows admins to oversee gown listings, track orders, and perform essential administrative tasks through a secure web interface.

**2. Specific Requirements**

**2.1. Functional Requirements**

**2.1.1. Admin Panel**

REQ001. The admin should be able to log in securely with a unique

username and password.

REQ002. Admins must have the capability to add, edit, or remove

gown listings, including details such as size, color, and

rental price.

REQ003. The admin panel should allow the administrator to view and

manage order statuses.

REQ004. Admins should be able to browse available gowns with

details on size, color, and rental price for customers

REQ005. Admins should be able to place rental orders, specifying

rental duration and rental date and return.

**2.1.2. Gown Management**

REQ006. Admins should add, edit, or remove gown listings with

details (size, color, rental price).

REQ007. Gown listings must support multimedia content (images,

descriptions).

**2.1.3. Order Management**

REQ008. The system should generate order confirmations for users

upon successful order placement.

REQ009. Admins should be able to view and manage order statuses,

including order processing and billing.

**2.2 Non-functional Requirements**

**2.2.1 Operational Requirements**

**2.2.1.1. System Availability**

REQ010. The system should have a minimum uptime of 99.9%.

REQ011. Scheduled maintenance windows should be

communicated to admins in advance.

**2.2.1.2. Backup and Recovery**

REQ012. Regular backups of gown listings and order information

should be performed.

REQ013. The system must have a recovery plan in case of data loss

or system failure.

**2.2.2 Performance Requirements**

**2.2.2.1. Response Time**

REQ014. The system should respond to admin inputs within 3

seconds.

REQ015. Concurrent admin handling: 50 simultaneous admins.

**2.2.2.2. Scalability**

REQ016. The system should scale horizontally to accommodate a

10% annual increase in admin interactions.

**2.2.3 Security Requirements**

**2.2.3.1. Archive**

REQ017. The system should maintain an archive of historical admin

activities.

REQ018. Admins should have the capability to access and review

the archive for security and auditing purposes

**2.2.3.2. Access Control**

REQ019. Admin access should be restricted to authorized personnel

only.

REQ020. Ensure secure communication channels between the

admin panel and the server.

**2.2.4. Cultural and Political Requirements**

**2.2.4.1. Legal Compliance**

REQ021. Adhere to consumer protection laws, providing transparent

terms and conditions.

**2.2.4.2. Cultural Sensitivity**

REQ022. Represent images and descriptions of gowns with cultural

sensitivity, respecting diverse cultural norms.

REQ023. Provide language localization (English) to accommodate

users from different cultural backgrounds.

**2.2.4.3. Ethical Considerations**

REQ024. Implement fair pricing practices, avoiding discriminatory

pricing.

REQ025. Adhere to ethical marketing practices, avoiding deceptive

or manipulative techniques.

**3. Hardware and Software Requirements**

**3.1. Hardware Specifications**

REQ026. Laptops with a minimum of 8GB RAM and dual-core

processors are recommended for optimal performance.

REQ027. Adequate storage space for the application and its data.

**3.2. Software Requirements**

REQ028. Visual Studio Code (VS Code) is the recommended

integrated development environment (IDE) for developers.

REQ029. Database Management System (DBMS) such as MySQL

or PostgreSQL for data storage.

**4. Additional Considerations for Improvement**

**4.1. Enhanced Search Functionality**

REQ030. Implement an intelligent search algorithm that suggests

relevant gowns based on user preferences and browsing

history.

REQ031. Allow users to filter search results dynamically based on

various criteria such as occasion and type of gowns.