

# **Software Requirements Specification**

**For**

## **Electronic Management System**

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- **Introduction**

- **Purpose**

This purpose of this SRS to describe the complete explanation and to provide a base of Electronic Management System to built it perfectly . It will describe how will software interact with end users in which include market owner or administrator, employee. This SRS will explain the functional and non-functional requirement for the software .

- **Intended Audience and Reading Suggestions**

This SRS will be used by all stack holders like Programmers who will going to develop the software and by the Client. Programmers and Software Engineers use this software to understand the requirements of the system to construct the software as client requirements. The client will use this SRS to determine If the developers are building the right system as they want if the SRS will not fulfill the requirements client will specify the developers what should be add or change can be done in the system according to their requirements.

- **Product Scope**

The major goal of the software is to automate all major operations taken place in electronic market with large number of appliances which are being done by manually. The system will make tasks easy like tracking the of booking by customers and the check booked appliances status as well as checking the availability for the appliance for sale Purpose. The system will be used by two major end user an employee and the owner. Both Admin and employee can access the booking system and Booked appliances status for customer at the shop . The system will be user friendly. Managing a different appliances manually is very difficult task but due the automation providing by this software will ease the tasks not only for the admin but for the employee as well.

- **Definitions, Acronyms, and Abbreviations**

SRS: Software Requirements Specification.

End User: Person who will use the software.

Abstraction: Hiding unnecessary details from the user

# • Overall Description

## 2.1) Product Perspective

The Electronic Management System is completely an independent system it is not a part of other large system it is completely a self-contained software

## 2.1) Product Function

- Admin Login
- Admin Registration Login
- Customer Registration
- Cash Payment
- Installment Payment
- Employee Registration
- Employee login
- Admin can add product
- Employee can check the customer History
- Employee can add, update and delete customer
- Admin can Delete, Add update product and employee details.
- Admin check the registered customer & employee
- Admin check the available product Record
- The main purpose of admin is to manage employee and product
- Admin can access the software thorough login
- Employee can modify the rates

## 2.3) User Classes & Characteristics

Technical Expertise: Low

Educational required: Low

## 2.4) Operating Environment

This software will be require PC with i3 and 4 GB ram having windows 7 and higher version and SQL Server.

## 2.5) Design & Implementation Constrains

The system will have a centralized database

## 2.6) Assumption and Dependencies

Payments of cash and installment are included.

# • External Interface Requirements

## 3.1) User Interface

Form	Function
Login	Login Page employee and admin
Registration	Admin(if there are multiple administrator) and employee.
Booking	Reserve a car, update cancel reservation, check book car status
Checkout	Checkout a customer, generate bill
Employee	Add customer,check customer history, show available product.
Owner	Show record and check available and deal the Employee to customer ,add product.
Product Data	View and delete and update product data

## 3.2) Hardware Interfaces

- Corei3 and higher
- Minimum 4 GB of RAM
- 120 GB Hard disk

## 3.3) Software Interfaces

The system will use SQL server data base and require Windows 7 and higher version.

## 3.4) Communication Interfaces

Our software does not require any communication interface right now.

- **System Feature (Functional Req)**

#### **4.1) Registration**

- Mcms will record customer and vendor full name, id, address, phone password,
- The system will ask customer phone number full name, **auto generate** id, address, phone password.
- The system will generate an booking id
- The system will check in and checkout customer

#### **4.2) Management**

- The system will be able to manage Employee and customer info
- The system can delete, update and new user register
- The system will be able to manage product records
- The system will be able to manage the account employee & admin users

- **Nonfunctional Requirement**

#### **5.1) Performance Requirement**

performance requirement define response time taken by the system to perform some tasks and function here is some considerable performance requirement:

- The time should be less than 2 second for loading a form and popup massage
- User information and log in verification time should be less than 5 seconds
- SQL queries should return result less than 5 seconds

#### **5.2) Safety Requirement**

System database may be damage due to any kind of reason to overcome this risk database must be backup into external storage.

#### **5.2) Security Requirement**

Three type of user can login into the system Admin, Employee. admin have access to all the record ad employee have access particular record. All 2 users cant view others and sale form and information but only Admin(managers) gave access to all informations.

## **5.3) Software Quality and Attributes**

### **5.3.1) Availability**

The system will be available during the normal operating hours.

### **5.3.2) Maintainability**

The system will be developed using c# which is highly performance OOP language and easy to maintain.

### **5.3.3) Portability**

The system will run on any machine which has Windows 7 and higher version having installed .Net framework and MS SQL Server.