

# Software Requirement Specification (SRS)

## Project Title

Web-Based Online Service Management System

## Company Name

SmartServe Solutions

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## 1. Introduction and Purpose

The Software Requirement Specification (SRS) document provides a **detailed description of the software requirements** for the Web-Based Online Service Management System proposed for SmartServe Solutions. This document translates the Business Requirement Specification (BRS) and User Requirement Specification (URS) into **technical and system-level requirements**.

The purpose of this SRS is to clearly define the functional and non-functional requirements of the system so that developers, testers, and stakeholders have a common understanding of what the system should do. This document serves as a reference throughout the system development life cycle.

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## 2. System Overview

The Web-Based Online Service Management System is a centralized web application designed to manage service requests, service tracking, technician assignment, and online payments. The system will be accessible through a web browser and will support three main user roles:

1. Customer
2. Service Manager (Admin)
3. Technician

The system will store all service-related data in a centralized database and provide real-time updates to users. It aims to replace manual service management processes with an automated and efficient digital solution.

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## 3. Functional Requirements

The functional requirements describe **what the system shall do**. Each requirement is uniquely identified for clarity and traceability.

## **FR-1: User Registration**

The system shall allow customers to register by providing basic details such as name, email, contact number, and password.

## **FR-2: User Authentication**

The system shall authenticate users using secure login credentials and provide role-based access (Customer, Admin, Technician).

## **FR-3: Customer Dashboard**

The system shall provide a dashboard for customers to view service requests, status, and payment details.

## **FR-4: Service Request Submission**

The system shall allow customers to submit service requests through an online form.

## **FR-5: Service Request Management**

The system shall allow the admin to view, update, and manage all service requests.

## **FR-6: Technician Assignment**

The system shall allow the admin to assign technicians to service requests.

## **FR-7: Technician Dashboard**

The system shall provide technicians with a dashboard to view assigned service tasks.

## **FR-8: Service Status Update**

The system shall allow technicians to update the service status as Pending, In Progress, or Completed.

## **FR-9: Service Tracking**

The system shall allow customers and admin to track service status in real time.

## **FR-10: Notifications**

The system shall send notifications to customers and technicians regarding service updates.

## **FR-11: Online Payment Processing**

The system shall allow customers to make online payments using secure payment gateways.

### **FR-12: Payment Confirmation**

The system shall generate payment confirmation and store payment details.

### **FR-13: Service History**

The system shall maintain service history records for customers and technicians.

### **FR-14: Report Generation**

The system shall allow admin to generate service and payment reports.

### **FR-15: User Management**

The system shall allow admin to manage customer and technician accounts.

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## **4. Non-Functional Requirements**

Non-functional requirements define **how the system should perform**.

### **4.1 Performance Requirements**

- The system should load pages within 3 seconds.
- The system should support multiple users simultaneously.

### **4.2 Security Requirements**

- The system shall use secure authentication mechanisms.
- User data shall be encrypted.
- Only authorized users shall access the system.

### **4.3 Usability Requirements**

- The system shall have a user-friendly interface.
- The system shall be easy to navigate.

### **4.4 Reliability Requirements**

- The system shall be available 24/7 with minimal downtime.
- Data should not be lost during system failures.

### **4.5 Compatibility Requirements**

- The system shall work on major web browsers.
- The system shall be accessible on desktops and mobile devices.

## **4.6 Scalability Requirements**

- The system shall support future expansion.
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## **5. System Constraints**

The following constraints apply to the system:

1. The system requires an active internet connection.
  2. Online payment depends on third-party payment gateways.
  3. The system must be developed within limited budget and time.
  4. The system must comply with data protection regulations.
  5. Hosting server limitations may affect performance.
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## **6. Assumptions and Dependencies**

### **6.1 Assumptions**

1. Users have valid email addresses.
2. Users will provide accurate information.
3. Technicians will update service status regularly.
4. Admin will properly manage system data.

### **6.2 Dependencies**

1. Payment gateway availability.
  2. Email/SMS notification services.
  3. Hosting and server infrastructure.
  4. Internet connectivity for users.
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## **7. Future Enhancements**

The system may be enhanced in the future with the following features:

1. Mobile application support.
  2. Advanced analytics dashboard.
  3. Customer feedback and rating system.
  4. AI-based technician assignment.
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## **8. Conclusion**

This Software Requirement Specification document provides a complete and detailed description of the software requirements for the Web-Based Online Service Management System. It ensures clarity, consistency, and completeness of system requirements, helping developers build a reliable, secure, and user-friendly system that meets business and user needs effectively.