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Software Requirements Specification (SRS): Online Challan System (OCS)

1. Introduction

1.1 Purpose The purpose of this SRS document is to outline the requirements for the development and implementation of Online Challan System (OCS). This system aims to streamline and automate the process of challan issuance, distribution, tracking, and management, improving efficiency, accuracy and compliance.

1.2 Scope The Online Challan System (OCS) will handle the creation, distribution, and tracking of challans for various organizational purposes. It will support real-time status updates and generate required reports.

1.3 Definitions, Acronyms, and Abbreviations

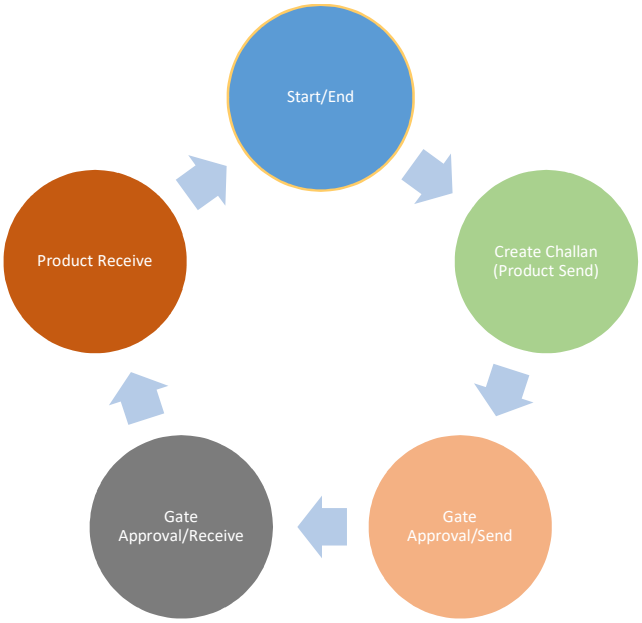
- **SRS**: Software Requirements Specification
- **Challan**: Official document that accompanies goods during transit, detailing the description, quantity, sender and receiver information.
- **User**: Individuals who will use the system, including administrators, officers, and recipients

2. System Overview

2.1 Product Perspective The Online Challan System (OCS) is a web-based application designed to integrate seamlessly with existing administrative systems within the organization.

2.2 Product Functions

- User Registration and Authentication
- Challan Generation and Issuance
- Real-time Tracking and Monitoring
- Data Analytics and Reporting



2. Product Features and Benefits

- Improves monitoring and control of entry and exit points.
- Ensures only authorized access.
- Automates the gatepass issuance, approval, and tracking processes.
- Reduces time and effort required for manual gatepass management.
- Maintains precise and up-to-date digital records.
- Minimizes errors associated with manual data entry.
- Ensures adherence to security policies and regulations.
- Provides detailed audit trails for compliance verification.

3. Functional Requirements

3.1 User Registration and Authentication

- Users must register and authenticate using secure login credentials.
- The system support role-based access control to differentiate between administrators and officers.

3.2 Challan Generation

- Authorized personnel can generate challans by entering necessary details such as order information, product details, recipient information and purpose.
- The system should support bulk generation of challans for multiple recipients.

3.3 Challan Issuance

- Generated challans can be issued digitally or printed copies.
- Each challan will have a unique identifier for tracking purposes.

3.4 Real-time Tracking

- Track the status of each challan from issuance to receiving.
- Display real-time updates on issued, received and overdue challans.

3.5 Reporting and Analytics

- Generate detailed reports on challan issuance and statuses.

4. Non-Functional Requirements

4.1 Performance

- The system should handle a high volume of concurrent users and operations without performance degradation.
- Ensure quick response times for all operations.

4.3 Usability

- Intuitive and user-friendly interface accessible via web browsers and mobile devices.
- Clear and simple workflows to minimize the learning curve.

4.4 Scalability

- The system should be scalable to accommodate increasing numbers of users and challans.

5. System Architecture

5.1 Overview

- The system will follow a client-server architecture.
- The front end will be developed using HTML, CSS, JQuery, Ajax and JavaScript.
- The back end will use a relational database and a server-side scripting language (e.g., PHP, MySQL).

5.2 Components

- User Interface (UI)
- Application Logic
- Database

6. Interface Requirements

6.1 User Interface

- Web-based interface accessible from any modern web browser.
- Responsive design for compatibility with desktops, tablets, and smartphones.

7. Constraints

- Must comply with organizational IT policies and administrative regulations.
- Limited by the existing infrastructure capabilities (internally accessible)

8. Appendices

8.1 Glossary

- **API**: Application Programming Interface
- **UI**: User Interface