# Software Requirements Specification for Smart Business Finance & Compliance System

## 1. Introduction

### 1.1 Purpose

This Software Requirements Specification (SRS) document outlines the requirements for the Smart Business Finance & Compliance System, a web-based platform designed to assist business owners, defense contractors, and chartered accountants (CAs) in managing financial planning, taxation, regulatory compliance, and security-sensitive business transactions.

### 1.2 Document Conventions

- Requirements are stated using "shall" language

- Priorities are indicated as High, Medium, or Low

- Technical terms are defined in the Glossary (Appendix A)

### 1.3 Intended Audience and Reading Suggestions

This document is intended for:

- Developers: Focus on sections 3 and 4

- Project Managers: Read all sections

- Business Stakeholders: Focus on sections 1, 2, and 4

- Quality Assurance: Focus on sections 3, 4, and 5

### 1.4 Product Scope

The Smart Business Finance & Compliance System aims to provide a comprehensive solution for financial management, regulatory compliance, and secure transactions, catering to the specific needs of business owners, defense contractors, and CAs.

### 1.5 References

1. IEEE Std 830-1998, IEEE Recommended Practice for Software Requirements Specifications

2. Relevant financial regulations and standards

3. Defense industry compliance guidelines

## 2. Overall Description

### 2.1 Product Perspective

The Smart Business Finance & Compliance System is a new, self-contained web application that will integrate with external government portals for defense contracts and tax filing.

### 2.2 Product Functions

The main functions include:

- Business Operations & Finance Management

- Defense-Specific Compliance

- Taxation & Audit Management

- AI-Powered Financial Forecasting

- Secure Transactions using Blockchain Technology

### 2.3 User Classes and Characteristics

1. Business Owners: Require financial management and forecasting tools

2. Defense Contractors: Need security clearance and contract management features

3. Chartered Accountants (CAs): Utilize taxation and audit functionalities

### 2.4 Operating Environment

The system shall operate as a web-based application accessible through modern web browsers, hosted on cloud platforms such as AWS or Google Cloud.

### 2.5 Design and Implementation Constraints

- Compliance with data protection and financial regulations

- Security measures meeting defense industry standards

- Responsive design for various devices and screen sizes

### 2.6 User Documentation

- Online help system

- User manuals for each user class

- Video tutorials for key features

### 2.7 Assumptions and Dependencies

- Users have basic computer literacy and internet access

- Reliable internet connectivity is available

- Integration with government portals is possible and approved

## 3. External Interface Requirements

### 3.1 User Interfaces

The user interface shall be web-based, responsive, and include:

- Dashboard for quick overview of key metrics

- Navigation menu for accessing different modules

- Forms for data input and management

- Reports and visualizations for data analysis

### 3.2 Hardware Interfaces

No specific hardware interfaces are required beyond standard computer hardware.

### 3.3 Software Interfaces

The system shall interface with:

- Government portals for defense contracts and tax filing

- Banking systems for financial transactions

- External APIs for real-time financial data

### 3.4 Communications Interfaces

The system shall use HTTPS for secure communication over the internet.

## 4. System Features

### 4.1 Business Operations & Finance Module

#### 4.1.1 Sales & Expense Tracking

\*\*Description\*\*: The system shall provide functionality to record and track sales and expenses.

\*\*Requirements\*\*:

- REQ-1.1: The system shall allow users to input sales transactions with date, amount, and category.

- REQ-1.2: The system shall enable recording of expenses with date, amount, category, and attached receipts.

- REQ-1.3: The system shall generate reports showing sales and expenses over time.

#### 4.1.2 Profit & Loss Reports

\*\*Description\*\*: The system shall generate profit and loss reports based on recorded financial data.

\*\*Requirements\*\*:

- REQ-2.1: The system shall calculate profit/loss for user-specified time periods.

- REQ-2.2: The system shall display profit/loss data in both tabular and graphical formats.

- REQ-2.3: The system shall allow export of reports in PDF and Excel formats.

#### 4.1.3 Invoice & Billing Management

\*\*Description\*\*: The system shall provide tools for creating, sending, and tracking invoices.

\*\*Requirements\*\*:

- REQ-3.1: The system shall allow creation of customizable invoice templates.

- REQ-3.2: The system shall generate and send invoices to clients via email.

- REQ-3.3: The system shall track payment status of invoices and send reminders for overdue payments.

### 4.2 Defense-Specific Compliance Module

#### 4.2.1 Security Clearance for Transactions

\*\*Description\*\*: The system shall implement security clearance checks for sensitive transactions.

\*\*Requirements\*\*:

- REQ-4.1: The system shall verify user credentials before allowing access to sensitive data.

- REQ-4.2: The system shall log all access attempts to sensitive information.

- REQ-4.3: The system shall implement multi-factor authentication for high-security transactions.

#### 4.2.2 Government Contract Management

\*\*Description\*\*: The system shall provide tools for managing government contracts.

\*\*Requirements\*\*:

- REQ-5.1: The system shall store and organize government contract documents.

- REQ-5.2: The system shall track contract milestones and deadlines.

- REQ-5.3: The system shall generate compliance reports for government contracts.

### 4.3 Taxation & Audit Module

#### 4.3.1 Automated Tax Calculation

\*\*Description\*\*: The system shall automatically calculate various taxes based on financial data.

\*\*Requirements\*\*:

- REQ-6.1: The system shall calculate GST based on sales data.

- REQ-6.2: The system shall compute income tax estimates based on profit/loss data.

- REQ-6.3: The system shall update tax calculations in real-time as new data is entered.

#### 4.3.2 Audit Report Generation

\*\*Description\*\*: The system shall generate comprehensive audit reports.

\*\*Requirements\*\*:

- REQ-7.1: The system shall compile financial data into standardized audit report formats.

- REQ-7.2: The system shall allow customization of audit reports based on specific requirements.

- REQ-7.3: The system shall provide an audit trail of all financial transactions.

## 5. Other Nonfunctional Requirements

### 5.1 Performance Requirements

- REQ-8.1: The system shall support at least 1000 concurrent users.

- REQ-8.2: Page load times shall not exceed 3 seconds under normal conditions.

- REQ-8.3: Database queries shall return results within 5 seconds for complex reports.

### 5.2 Safety Requirements

- REQ-9.1: The system shall encrypt all sensitive data in transit and at rest.

- REQ-9.2: The system shall perform regular backups of all data and store them securely.

### 5.3 Security Requirements

- REQ-10.1: The system shall implement role-based access control.

- REQ-10.2: The system shall hash and salt all user passwords before storage.

- REQ-10.3: The system shall log out inactive sessions after 30 minutes.

### 5.4 Software Quality Attributes

- REQ-11.1: The system shall have an uptime of 99.9%.

- REQ-11.2: The system shall be built using modular architecture for easy updates.

- REQ-11.3: The user interface shall be intuitive and require minimal training for basic operations.

### 5.5 Business Rules

- REQ-12.1: All financial calculations must comply with relevant accounting standards.

- REQ-12.2: Defense-related transactions must adhere to government regulations.

- REQ-12.3: Tax calculations must be updated to reflect the latest tax laws.

## Appendix A: Glossary

- \*\*Blockchain\*\*: A decentralized, distributed ledger technology that records transactions across many computers

- \*\*GST\*\*: Goods and Services Tax, a value-added tax levied on most goods and services sold for domestic consumption

- \*\*AI\*\*: Artificial Intelligence, the simulation of human intelligence processes by machines, especially computer systems

Citations:

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