Initial Software Requirements Document (SRD) for Company Financial Report System

Version 1.0

1. Introduction

The **Company Financial Report System (CFRS)** is designed to streamline the creation, management, and presentation of monthly financial reports during financial meetings. It will provide stakeholders with real-time insights, interactive visualizations, and secure access to financial data.

2. Objectives

- Automate monthly financial report generation.
- Display financial data in an intuitive, visually engaging format.
- Ensure secure role-based access to sensitive financial information.
- Enable real-time updates during meetings.

3. Functional Requirements

3.1 User Roles and Authentication

• Roles:

- Executive: Full access to all reports, raw data, and administrative controls.
- Finance Team: Access to generate/edit reports and upload data.
- Guest (Read-Only): View finalized reports only.

Authentication:

- Login via email/password or SSO (e.g., Active Directory).
- Session timeout after 15 minutes of inactivity.

3.2 Data Management

Data Sources:

- Import data from Excel, CSV, QuickBooks, or ERP systems (e.g., SAP).
- Manual entry for adjustments.

Data Validation:

- Automated checks for missing entries, format errors, or outliers.
- Alerts for discrepancies.

3.3 Reporting Features

• Monthly Report Generation:

- Pre-built templates for Income Statements, Balance Sheets, Cash Flow, and KPIs.
- Customizable charts (bar, line, pie) and tables.

Dashboard:

- Interactive filters (e.g., by department, time period, or project).
- Drill-down capabilities for granular data.

• Real-Time Updates:

Reflect live data changes during meetings (e.g., revised forecasts).

3.4 Presentation Mode

· Meeting Mode:

- Full-screen display optimized for projectors.
- Presenter controls (annotations, spotlight metrics).

• Export Options:

PDF, Excel, or PowerPoint exports for offline sharing.

3.5 Audit and Compliance

Audit Logs:

Track report modifications, data imports, and user activity.

Data Encryption:

Encrypt data at rest and in transit (TLS 1.3+).

4. Non-Functional Requirements

4.1 Performance

- Load reports within ≤2 seconds for datasets up to 100k rows.
- Support 50+ concurrent users during meetings.

4.2 Security

- Role-based access control (RBAC) compliant with GDPR/SOX.
- Regular vulnerability scans and penetration testing.

4.3 Usability

- Intuitive UI/UX with minimal training required.
- Mobile-responsive design for pre-meeting reviews.

4.4 Scalability

Modular architecture to add future integrations (e.g., Power BI).

5. UML Overview (Without Diagrams)

5.1 Use Case Diagram (Conceptual)

- Actors: Executive, Finance Team, Guest.
- Key Use Cases:
 - Authenticate User.
 - Import/Validate Financial Data.
 - Generate Monthly Report.
 - Present Report in Meeting Mode.
 - Export Report.
 - Manage User Permissions.

5.2 Class Diagram (Conceptual)

· Classes:

- User: Attributes: userID , role , email ; Methods: login() , logout() .
- **FinancialData**: Attributes: month, revenue, expenses, profit; Methods: validate(), import().
- Report: Attributes: reportID , templateType , generatedDate ; Methods: generate() ,
 export() .
- Dashboard: Methods: renderVisualization(), applyFilter().

5.3 Sequence Diagram (Conceptual)

- Generate Report Flow:
 - 1. User selects report parameters.
 - 2. System fetches data from FinancialData.
 - 3. System applies template and generates visualizations.
 - 4. User approves/rejects the report.

6. Initial Design Considerations

6.1 Architecture

- Frontend: Web-based (React.js/Angular) for cross-platform compatibility.
- Backend: Microservices (Python/Django or Node.js) for scalability.
- Database: Relational (PostgreSQL) for structured financial data.

6.2 Integration

- APIs to connect with ERP/accounting software.
- OAuth2 for SSO.

6.3 Deployment

- Cloud-hosted (AWS/Azure) with Docker containers.
- CI/CD pipeline for updates.

7. Risks and Mitigations

- **Data Inconsistency**: Implement validation rules and reconciliation workflows.
- Performance Lag: Use caching (Redis) for frequently accessed reports.

8. Next Steps

- 1. Finalize UML diagrams (use cases, class, sequence).
- 2. Develop a prototype for core reporting features.
- 3. Conduct stakeholder feedback sessions.

Approvals		
☐ Product Owner		
☐ Technical Lead		

This document serves as the foundation for detailed technical specifications and sprint planning. Let me know if you need further refinements!