

Unified Business Management System

Project Brief - CCS/CSE2002 - Team 09

Objectives

To develop a flexible, scalable business management system adaptable across industries.

Initial Target Client

Electric items import and selling company

Core Features To Be Implemented

- Stock management with real time updates
- Purchase order management
- Order tracking system
- Quotation generation
- Normal and tax invoice creation
- Customer invoice and SVAT handling
- Interactive Dashboard with Stock & Sales updates
- Seamless Database Sync with Software Updates

Future Enhancements

- AI Bot for automated operations assistance
- Mobile App for executive access to key metrics

Architectural Plan

Modular architecture with business specific configuration will be implemented targeting the initial client mentioned above which is currently using Quickbooks. Database will be auto sync with software updates and the dashboard will also be updated. Moreover, an order tracking system is also being implemented. Mobile app will access the updated information by overcoming the weaknesses in the current system. Agile methodology with sprint based development cycles is to be used for the project.

Tools to be used

- Backend - Java, [Node.js](#), intelliJ
- Frontend - HTML, CSS, CSS Library, JavaScript, [React.js](#), VS Code
- Database - MongoDB
- Design tools - Figma / Canva
- Deployment tools - CI/CD Pipeline
- Project Management tools - Jira, Git+Github
- Communication tools - Google Meet / Zoom

Project Timeline (presenting only 2 phases here)

Phase 1 - Requirement gathering, Analysis - 2 weeks

Phase 2 - Stock Management module development - 3-4 weeks

Team Overview

Role	Name
Project Manager	R.M.L.G.Rathnadoowa
Data Analyst	R.D.R.P.Ranasinghe
Designer	B.A.M.J.Ranasingha
Frontend Developer	T.A.K.V.I De Alvis
Backend Developer	W.M.A.T.Weerasekara T.G.K.Pabodha
Database Administrator	B.P.U.Mendis
Tester	D.T.Paranavithana