SOFTWARE REQUIREMENT SPECIFICATION

PROJECT TITLE: Pharmacy Management
STUDENT NAME: Selvabharathi S
STUDENT BITS ID: 2022MT93556
COURSE CODE: SEZG518

Version Number	Date	Author/Owner	Description of Change
1	13/Aug/2023	Selvabharathi S	Problem statement, project features, software and hardware details, project plan
2	15/Aug/2023	Selvabharathi S	Conceptual Design: ER & Object Model

I. REQUIREMENT SPECIFICATION:

a. Problem Statement and Requirements Defination

1. Introduction

1.1 Purpose

The purpose of this document is to define the requirements for the development of a Pharmacy Management System. This system aims to streamline the operations and management of a pharmacy, enhancing efficiency and customer service.

1.2 Scope

The Pharmacy Management System will encompass both a user-friendly web-based frontend and a backend system. It will facilitate tasks such as managing medicines, handling prescriptions, inventory management, customer records, and billing.

1.3 Definitions, Acronyms, and Abbreviations

SRS: Software Requirements Specification
API: Application Programming Interface

2. Problem Statement

Pharmacies often deal with a high volume of medicine stock, prescription records, and customer interactions. Manual management can lead to errors, inefficient inventory control, and slower service. The need is for a comprehensive system that automates and improves pharmacy management processes.

3. Proposed Solution

The Pharmacy Management System will provide a centralized platform for pharmacy staff to effectively manage medicines, prescriptions, inventory, and customer interactions. It will offer automation, real-time tracking, and reporting functionalities.

b. Project features identified

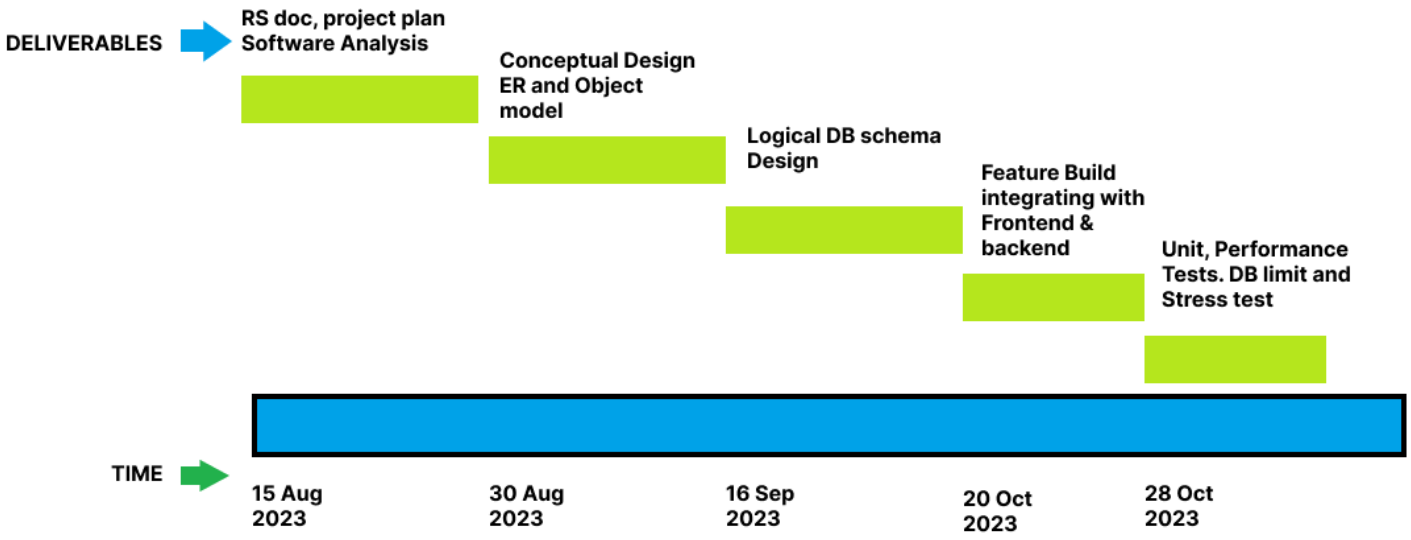
Feature ID	Feature Name	Description
F1	User Authentication & Authorization	➢ Secure login and registration for pharmacy staff with role-based access control
F2	Medicine Management	➢ Add, update and delete medicine details, including name, dosage, price, and availability. ➢ Categorize medicines for easier navigation.
F3	Prescription Handling	➢ Record and manage prescriptions from doctors, including patient information & prescribed medicines. ➢ Track prescription history.
F4	Inventory Management	➢ Real time tracking of medicine stock levels. ➢ Automated alerts for low stock. ➢ Manage incoming and outgoing stock.
F5	Customer Records	➢ Maintain customer profiles with contact details, purchase history and prescriptions.

F6	Billing and Invoicing	➢ Generate itemized bills for customers. ➢ Apply discounts and calculate taxes automatically.
F7	Reporting & Analytics	➢ Generate reports on inventroy levels, sales, profits, and customer trends. ➢ Visualize data for informed decision-making.
F8	Search and Filter	➢ Search and filter medicines, prescriptions, and customer records for easy retrieval.
F9	User Friendly Interface	➢ Intuitive and responsive web-based frontend using Angular. ➢ Backend powered by springboot for seamless data flow.
F10	Public API Integration(Future Enhancement)	➢ Integration with external systems for e-prescriptions and insurance claims.

c. Software and hardware details

Platform	Web Application
Frontend/ console	Angular
Backend/ server	SpringBoot
Database	MySql
Programming Language: Frontend	JavaScript, TypeScript
Backend/ server programming language	Java

d. Project plan



II. CONCEPTUAL DESIGN:

a. Entity Relationship Model

b. Object Model