Pharmaceutical Distribution Web Application – Project Overview

1 Introduction

The primary goal of the project is to simplify and digitalize how pharmacies receive product catalogs, view offers, and place orders — particularly focused on **baby care products**.

The application offers a modern alternative to traditional order placement methods (e.g., by phone), and improves the distributor's ability to manage offers and orders efficiently through a structured platform.

2 Main Features and Objectives

2.1 Dual-Panel System

The system is structured around two main user panels:

- **Admin Panel**: Used by distributors to upload offers, manage client pharmacies, and track their order history.

- **Client Panel**: Used by pharmacies to view updated price lists, place orders, and download offer documents.

2.2 Frontend Interface

The interface is developed with **React.js** and **CSS**, ensuring a clean and accessible experience for both administrators and pharmacy clients.

Users can log in securely, access customized dashboards, and perform their tasks intuitively based on their role.

2.3 Backend System

The backend is powered by **PHP** and **MariaDB**, providing a stable and performant foundation for business logic and data management.

The application follows the **MVC architectural pattern**, separating data models, views, and controllers for better maintainability and scalability.

2.4 Core Functionalities

Key features include:

- User registration and secure login

- Password change and profile management

- Uploading and downloading offer documents (Excel)

- Order placement with automatic date filtering

- Admin-side management of pharmacy clients and order tracking

3   Technical Stack

- **Frontend**: React.js, CSS, Axios

- **Backend**: PHP, MariaDB

- **Authentication**: Session-based with role handling

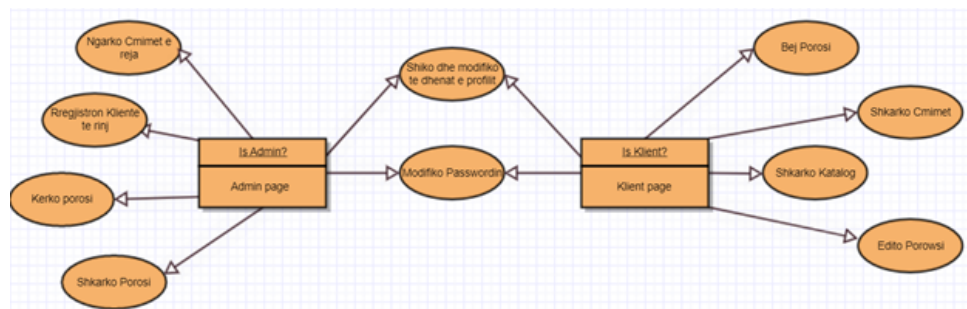- **Architecture**: MVC (Model-View-Controller)

4   Application Visuals
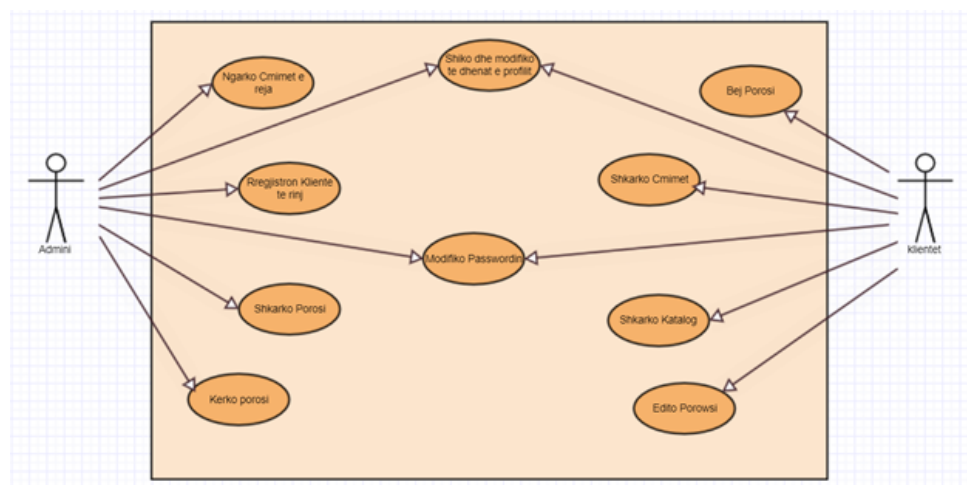

Figure 1: Application structure and user role flow

Figure 2: Use case diagram showing system actions
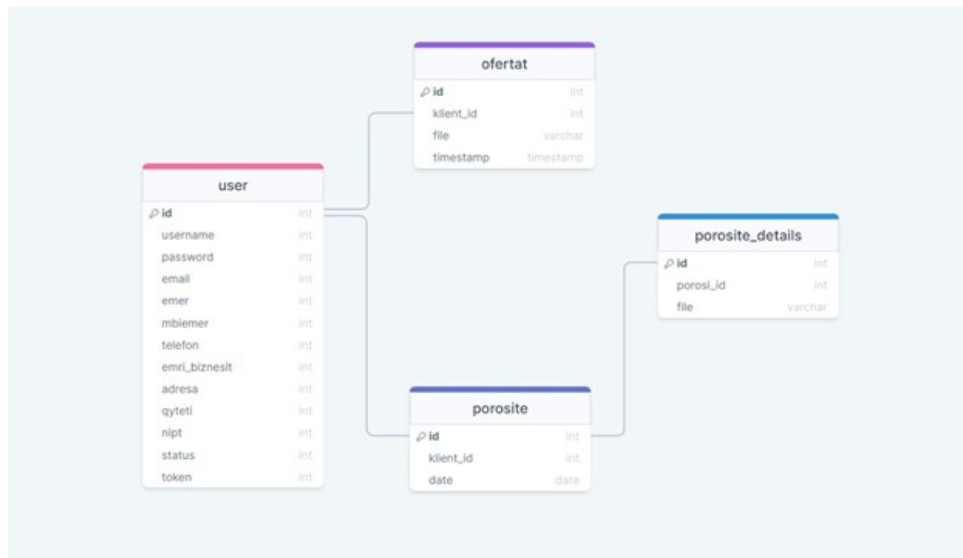
Figure 3: Database schema overview
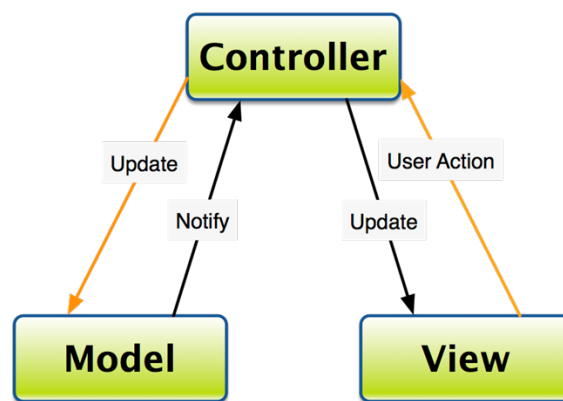
Figure 4: MVC architecture applied in the backend

Figure 5: Login screen

Figure 6: Admin view of pharmacy clients

Figure 7: Upload and manage offers

Figure 8: Order list view for clients

Figure 9: Password update screen

Figure 10: User profile and business info screen