**MediXpress**

1. **Introduction**

MediXpress is a cutting-edge web application designed to revolutionize the pharmaceutical distribution system. It addresses the challenges of high costs, delayed deliveries, and medicine unavailability by connecting consumers with local pharmacies. Users can easily find and purchase medicines from the nearest shops at competitive prices. The platform enhances accessibility and ensures timely delivery of essential medications. MediXpress supports local pharmacies by expanding their reach to a broader customer base. Key features include real-time inventory updates, a user-friendly interface, and robust security measures. MediXpress aims to transform the medicine shopping experience, making it more efficient and reliable.

1. **System Architecture**

**Back-End**

**(ASP.NET Core)**

**Front-End**

**(React)**

**Database**

**(SQL Server)**

**User Interface**

**(Customer, Admin,   
Pharmacy)**

**3. Users**

***3.1. Customer***

**Login/Register:** Customers can create an account or log in to access personalized features such as order history and saved addresses.

**View:** Customers can view available medicines, prices, and pharmacy details.

**Search:** Customers can search for medicines based on name, category, or other criteria.

**Order:** Customers can place orders for medicines, specifying quantity, delivery address, and payment method.

**Track:** Customers can track the status of their orders, including order accepted, order out for delivery.

***3.2. Pharmacy***

**Login/Register**: Pharmacies can register as sellers on the platform and log in to manage their inventory and orders.

**Add/Delete Medicines**: Pharmacies can add new medicines to their inventory and remove existing ones.

**Receive Orders:** Pharmacies receive orders placed by customers and process them.

**Update Progress**: Pharmacies can update the progress of orders, including order acceptance and out for delivery.

**Manage Inventory**: Pharmacies can manage their inventory, including stock levels and availability status.

***3.3****.* ***Admin***

**Login/Register**: Admins can log in to the platform to access administrative functionalities and manage user accounts and permissions.

**Approve/Reject Pharmacies**: Admins can review and approve new pharmacy registrations, ensuring compliance with platform policies.

**Monitor Platform Activity**: Admins monitor platform activity, including user registrations, order volume, and system performance.