

ONLINE MEDICINE STORE

TAPAS KUMAR KHANDA 2nd Year, Department of MCA, GIFT Autonomous, Bhubaneswar
tkhanda2023@gift.edu.in

Mr.SHUBHENDU SEKHAR SAHOO, Assistant Professor, Department of MCA, GIFT
Autonomous, Bhubaneswar, BPUT, India ssahoo@gift.edu.in

- iii. Supplier management: It should allow to add the suppliers and manage the supplier.

1.ABSTRACT

The Online Medicine Store project is a web-based platform designed to provide online platform for a medicine store and services to users. Developed using HTML ,CSS, Javascript , React.js for the frontend, and Express.js with Mongo Db for the backend, this website serves as a digital solution to facilitate Online Medicine Store management.

The objectives of the Online Medicine Store are centered on enhancing the overall efficiency and effectiveness of pharmacy operations. One key goal is to streamline and automate routine tasks such as inventory management, sales processing, and order handling, which reduces manual effort and saves time. The system aims to improve inventory management by maintaining real-time tracking of stock levels, managing purchase orders effectively, and ensuring timely replenishment to prevent stockouts and overstock situations. Additionally, it focuses on minimizing errors in prescription processing, sales transactions.

2.KEY FEATURES

- i. User-friendly interface: It should have an intuitive and easy-to-use interface.
- ii. Inventory management: It should allow to add the inventory and manage the inventory.

3.INTRODUCTION

In today's fast-paced healthcare environment, the efficiency and accuracy of pharmacy operations are crucial to providing high-quality patient care. Pharmacies face numerous challenges, including managing a vast inventory of medications, handling prescriptions accurately, and maintaining detailed records for regulatory compliance. The Online Medicine Store is designed to address these challenges by integrating essential functions such as inventory management, sales processing, customer management, and comprehensive reporting into a single, streamlined platform. This system not only automates routine tasks and reduces manual errors but also enhances customer service by ensuring quick and accurate transactions. By adopting this technology, pharmacies can significantly improve their operational efficiency, maintain optimal stock levels, comply with healthcare regulations, and ultimately provide better service to their customers.

4.MOTIVATION

- The motivation behind developing the Online Medicine Store is provides a digital platform to simplify and automate the essential processes of a Medicine Store. This project focuses on building an integrated system that manages core areas such as user can purchase medicines, seller can add medicines, and other operations.
- By automating and integrating key functions, Online Medicine Store aims to streamline operations, reduce errors, and improve customer service.

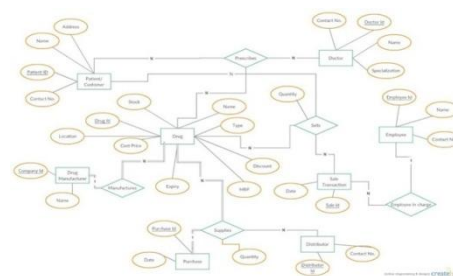
5.PURPOSE

The Online Medicine Store covers several essential functions to streamline and improve pharmacy operations. It includes inventory management for tracking stock levels, managing purchase orders, and setting alerts for low stock and expired items. The system handles sales processing efficiently, supporting various payment methods, generating receipts, and applying discounts and promotions. It maintains detailed customer profiles, including prescription records and refill schedules, and supports loyalty programs. Comprehensive reporting and analytics provide insights into sales, inventory, and financial performance. The system ensures compliance with regulatory requirements and

secures sensitive data through role-based access control. Additionally, it supports user management with different access levels and integrates with other systems like electronic health records (EHR) and point-of-sale (POS) systems. Designed for scalability, the system can accommodate the need.

6.ER DIAGRAM ARCHITECTURE

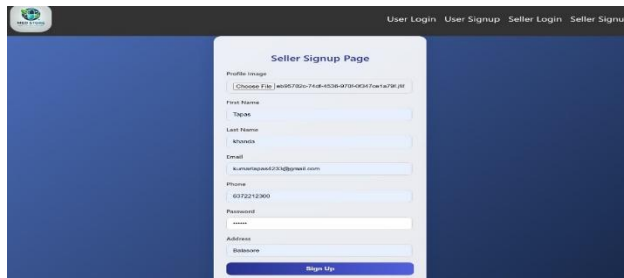
It is a data model for describing the data or information aspects of a business domain in its process requirements in an abstract way that lends itself to ultimately (things) and the relationships that can exist among them, and the databases. An being implemented in database such as relational database. The main components of ER models are entities entity is a thing that exists either physically or logically. An entity may be physical object such a house, a car, an event as a house sale or a car service, or a concept such as former transaction or order (they exist logically). Although the term entity is the most common used, following then we should really distinguish between an entity and an entity type. An entity type is a category. An entity, strictly speaking is an instance of a given entity type. There are usually many instances of an entity type. Because the term entity type is somewhat cumbersome, most people tend to use the term entity as a synonym for this term.



7. TECHNOLOGIES USED

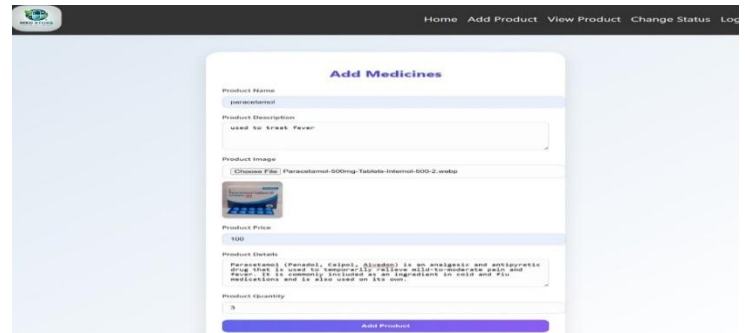
- **HTML** - HyperText Markup Language (HTML) is the standard markup language used to create web pages. HTML is a combination of Hypertext and Markup language. Hypertext defines the link between webpages. A markup language is used to define the text document within the tag to define the structure of web pages. It is used for documents designed to be displayed in a web browser. It defines the content and structure of web content. It is often assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript. It is also the basic scripting language used by web browsersto render pages on the world wide web. HyperText allows a user to click a link and be redirected to a new page referenced by that link.
- **CSS** - Cascading Style Sheets (CSS) is a stylesheet language used to describe the presentation of a document written in HTML or XML (including XML dialects such as SVG, MathML or XHTML). CSS describes how elements should be rendered on screen, on paper, in speech, or on other media. CSS, or Cascading Style Sheets, is the secret sauce that styles all the websites you visit. It's a simple language that controls how HTML elements (like text, images, and buttons) are displayed on a webpage. With CSS, you can change the font size and color, add backgrounds, and control the layout, transforming a basic webpage into a visually appealing and user-friendly experience.
- **REACT.JS**- ReactJS is a **component-based** JavaScript library used to build dynamic and interactive user interfaces. It simplifies the creation of single-page applications (SPAs) with a focus on performance and maintainability.
- **MONGO DB**-MongoDB is a powerful, open-source **NoSQL database** that offers a **document-oriented data model**, providing a flexible alternative to traditional relational databases. Unlike SQL databases, MongoDB stores data in BSON format, which is similar to JSON, enabling efficient and scalable data storage and retrieval.
- **EXPRESS.JS**- Express.js is a minimal and flexible [Node.js](#) web application framework that provides a list of features for building web and mobile applications easily. It simplifies the development of server-side applications by offering an easy-to-use API for routing, middleware, and HTTP utilities.
- **JAVASCRIPT**- JavaScript is a versatile, dynamically typed programming language used for interactive web applications, supporting both client-side and server-side development, and integrating seamlessly with [HTML](#), [CSS](#), and a rich standard library.

8.RESULTS



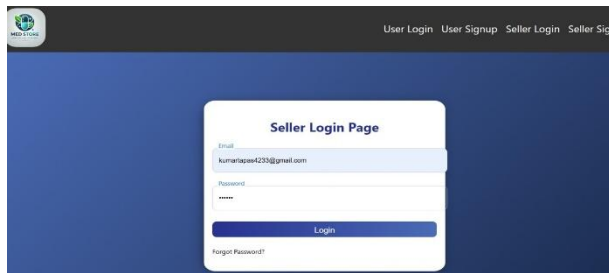
The screenshot shows the 'Seller Signup Page' of a web application. The page has a dark blue header with navigation links: 'User Login', 'User Signup', 'Seller Login', and 'Seller Signup'. The main content area is a light blue box with the title 'Seller Signup Page'. It contains a 'Profile Image' section with a 'Choose File' button and a file path. Below this are input fields for 'First Name' (filled with 'Tajak'), 'Last Name' (filled with 'Kumar'), 'Email' (filled with 'kumarrajeev423@gmail.com'), 'Phone' (filled with '6372212300'), 'Password' (masked with dots), and 'Address' (filled with 'Bokaro'). A 'Sign Up' button is at the bottom.

(SIGN-UP PAGE)



The screenshot shows the 'Add Medicines' page. The header has links: 'Home', 'Add Product', 'View Product', 'Change Status', and 'Log'. The main form is titled 'Add Medicines' and includes fields for 'Product Name' (filled with 'Paracetamol'), 'Product Description' (filled with 'Used for fever, Pain'), 'Product Image' (with a 'Choose File' button and a file path), 'Product Price' (filled with '100'), and 'Product Details' (a text area with a description of Paracetamol). There is also a 'Product Quantity' field (filled with '5') and an 'Add Product' button at the bottom.

(ADD MEDICINES PAGE)



The screenshot shows the 'Seller Login Page'. The header has links: 'User Login', 'User Signup', 'Seller Login', and 'Seller Signup'. The main form is titled 'Seller Login Page' and contains input fields for 'Email' (filled with 'kumarrajeev423@gmail.com') and 'Password' (masked with dots). There is a 'Login' button and a 'Forgot Password?' link at the bottom.

(SIGN-IN PAGE)



The screenshot shows the 'User Signup Page'. The header has links: 'User Login', 'User Signup', 'Seller Login', and 'Seller Signup'. The main form is titled 'User Signup Page' and contains input fields for 'Profile Image' (with a 'Choose File' button and a file path), 'First Name' (filled with 'Souvik'), 'Last Name' (filled with 'Nayak'), 'Email' (filled with 'souvik@gmail.com'), 'Phone' (filled with '7894204748'), 'Password' (masked with dots), 'Address' (filled with 'Cuttack'), and a 'Sign Up' button at the bottom.

(USER SIGNUP PAGE)

9.CONCLUSION

The Online Medicine Store has proven to be a valuable tool in enhancing the efficiency and accuracy of pharmacy operations. By streamlining inventory management, sales processing, and customer service, the system addresses many challenges faced by traditional pharmacy management methods. The real-time tracking of stock, automated alerts for low inventory and expirations, and comprehensive reporting tools contribute to better decision-making and operational efficiency. Despite initial hurdles such as implementation costs and the need for staff training, the system's overall impact includes reduced manual errors, improved customer satisfaction, and compliance .

10.FUTURE SCOPE

- i. Future developments in the Online Medicine Store should focus on integrating advanced features and technologies that significantly enhance the system's functionality and user experience.
- ii. Implementing touch-based interfaces and mobile applications can provide pharmacists with quick and efficient ways to manage inventory, process sales, and access customer information

on-the-go. These advancements will streamline daily operations and support the development of smarter, technology-driven pharmacy services

11.FERENCES

1. W3Schools – HTML, CSS, REACT.JS
URL: <https://www.w3schools.com/>
Description: Reference for learning and implementing core web technologies used in the project.
2. MDN Web Docs (HTML/CSS/JS)
URL: <https://developer.mozilla.org/>
Description: Useful for understanding modern frontend standards and accessibility best practices.