

Medicare Shopping Website - Project Documentation

1. Title & Introduction Section

Slide 1: Title Slide

College/Institution: [Your College Name Here]

Medicare Shopping Website

A Comprehensive E-Commerce Solution for Healthcare Products

Slide 2: Presenter Information

Presented By: [Your Name]

Slide 3: Abstract

Project Summary: "Medicare" is a robust, web-based e-commerce application designed to streamline the purchase of medicines and healthcare products. It provides a seamless platform for users to browse, search, and order medical supplies while offering administrators powerful tools to manage inventory, orders, and products.

Key Technologies:

- **Frontend:** React.js, Tailwind CSS
- **State Management:** React Context API
- **Data Handling:** LocalStorage (Prototype) / JSON Mock Data

Conclusion: The system is designed to be efficient, user-friendly, and responsive. Its modular architecture allows for easy scalability and future enhancements, such as integration with real-time payment gateways and backend databases.

Slide 4: Introduction

Overview: This web-based application addresses the need for accessible healthcare by bringing the pharmacy to the user's fingertips. It bridges the gap between suppliers and consumers through a digital interface.

Technical Stack:

- **Coding Languages:** JavaScript (ES6+), HTML5, CSS3
- **Database:** LocalStorage (Client-side persistence for prototype) / Mock JSON Data

User Roles:

1. **Admin:** Manages the entire platform, including product catalog, order processing, and system settings.
2. **User (Customer):** Browses products, manages cart, places orders, and tracks delivery status.

2. Modules Section

Slide 5: Admin Module

The Admin module grants privileged access to control system operations. Key features include:

- **Dashboard:** View real-time statistics (Total Users, Orders, Revenue).
- **Product Management:** Add, edit, or delete medicines and health products.
- **Order Management:** View, approve, or reject customer orders.
- **Prescription Verification:** Review and approve uploaded prescriptions.
- **Settings:** Configure system-wide preferences and profile settings.

Slide 6: User Module

The User module focuses on a smooth shopping experience. Key capabilities include:

- **Browse & Search:** Search medicines by category, name, or health concern.
- **Product Details:** View detailed information (ingredients, dosage, usage) and reviews.
- **Cart & Wishlist:** Manage selected items and save favorites for later.
- **Checkout:** Securely place orders with address management.
- **Order History:** Track the status of current and past orders.
- **Prescription Upload:** Upload doctor's prescriptions for verified purchase.

3. Requirements Section

Slide 7: Hardware Configuration (Client Side)

Component	Minimum Requirement	Recommended
Processor	Intel Core i3 or equivalent	Intel Core i5 or higher
RAM	4 GB	8 GB
Hard Disk	256 GB HDD/SSD	512 GB SSD
Display	1366 x 768 Resolution	1920 x 1080 (Full HD)
Internet	2 Mbps BroadBand	10 Mbps or higher

Slide 8: Hardware Configuration (Server Side)

(For Hosting/Deployment)

Component	Minimum Requirement	Recommended
Processor	Dual Core CPU	Quad Core vCPU
RAM	2 GB	4 GB
Storage	20 GB SSD	40 GB SSD
Architecture	x86_64	x86_64

Slide 9: Software Requirement (Client)

Component	Requirement
Operating System	Windows 10/11, macOS, or Linux
Web Browser	Google Chrome, Firefox, Safari, or Edge (Latest Versions)

Slide 10: Software Requirement (Server/Development)

Component	Requirement
Operating System	Linux (Ubuntu/Debian) or Windows Server
Web Server	Nginx or Apache (for serving static build)

Component	Requirement
Runtime Environment	Node.js (for development/build tools)
Database	LocalStorage (<i>Current</i>) / MongoDB/MySQL (<i>Future</i>)

4. Diagrams Section

Slide 11: Use Case Diagram (Admin)

```

usecaseDiagram
    actor Admin
    rectangle "Medicare System" {
        usecase "Login" as UC1
        usecase "Manage Products" as UC2
        usecase "Manage Orders" as UC3
        usecase "Verify Prescriptions" as UC4
        usecase "View Dashboard" as UC5
    }
    Admin --> UC1
    Admin --> UC2
    Admin --> UC3
    Admin --> UC4
    Admin --> UC5

```

Slide 12: Use Case Diagram (User)

```

usecaseDiagram
    actor User
    rectangle "Medicare System" {
        usecase "Register/Login" as UC1
        usecase "Search Products" as UC2
        usecase "Add to Cart" as UC3
        usecase "Place Order" as UC4
        usecase "Upload Prescription" as UC5
        usecase "Write Review" as UC6
    }
    User --> UC1
    User --> UC2
    User --> UC3
    User --> UC4
    User --> UC5
    User --> UC6

```

Slide 13: Class Diagram

```
classDiagram
    class User {
        +int id
        +string username
        +string email
        +string password
        +string role
        +login()
        +register()
    }
    class Product {
        +int id
        +string name
        +float price
        +string category
        +string description
        +int stock
        +updateStock()
    }
    class Order {
        +string id
        +int userId
        +date date
        +float total
        +string status
        +updateStatus()
    }
    class Cart {
        +int userId
        +List~Product~ items
        +addItem()
        +removeItem()
        +checkout()
    }

    User "1" --> "*" Order : places
    User "1" --> "1" Cart : has
    Order "1" --> "*" Product : contains
    Cart "1" --> "*" Product : contains
```

Slide 14: ER Diagram

```
erDiagram
    USER ||--o{ ORDER : places
```

```

USER ||--o{ REVIEW : writes
PRODUCT ||--o{ ORDER_ITEM : "included in"
ORDER ||--|{ ORDER_ITEM : contains
PRODUCT ||--o{ REVIEW : has

USER {
    int id PK
    string email
    string password
    string role
}
PRODUCT {
    int id PK
    string name
    float price
    int stock
    string category
}
ORDER {
    string id PK
    int user_id FK
    float total
    string status
    date order_date
}
ORDER_ITEM {
    string order_id FK
    int product_id FK
    int quantity
    float price
}

```

Slide 15: Data Flow Diagram (DFD) Analysis

Definition: A Data Flow Diagram (DFD) maps out the flow of information for any process or system. It uses defined symbols like rectangles, circles and arrows to show data inputs, outputs, storage points and the routes between each destination.

Slide 16: Zero Level DFD (Context Diagram)

```

graph LR
    User[User] -- Orders/Requests --> System(Medicare System)
    Admin[Admin] -- Management/Updates --> System
    System -- Order Status/Products --> User
    System -- Reports/Data --> Admin

```

Slide 17: First Level DFD (Admin)

```
graph TD
    Admin[Admin] -->|Login| P1(Process: Auth)
    P1 -->|Session| D1[Dashboard]
    Admin -->|Product Details| P2(Process: Manage Products)
    P2 -->|Update| DB[(Product DB)]
    Admin -->|Status Update| P3(Process: Manage Orders)
    P3 -->|Update| DB2[(Order DB)]
```

Slide 18: First Level DFD (User)

```
graph TD
    User[User] -->|Search| P1(Process: Browse)
    P1 -->|Query| DB[(Product DB)]
    User -->|Select Item| P2(Process: Add to Cart)
    P2 -->|Cart Data| D1[Cart Store]
    User -->|Checkout| P3(Process: Place Order)
    P3 -->|Order Details| DB2[(Order DB)]
```

Slide 19: Second Level DFD (Order Processing)

```
graph TD
    User[User] -->|1. Select Items| Cart[Cart Management]
    Cart -->|2. Review Cart| Checkout[Checkout Process]
    Checkout -->|3. Enter Address| Validation{Validate Details}
    Validation -->|Invalid| Checkout
    Validation -->|Valid| Order[Order Generation]
    Order -->|4. Save Order| DB[(Order DB)]
    Order -->|5. Update Stock| ProductDB[(Product DB)]
    Order -->|6. Notify Admin| Admin[Admin Dashboard]
```

5. Testing & Showcase Section

Slide 20: Implementation and System Testing

Testing Strategy: We employed a rigorous testing approach to ensure system reliability:

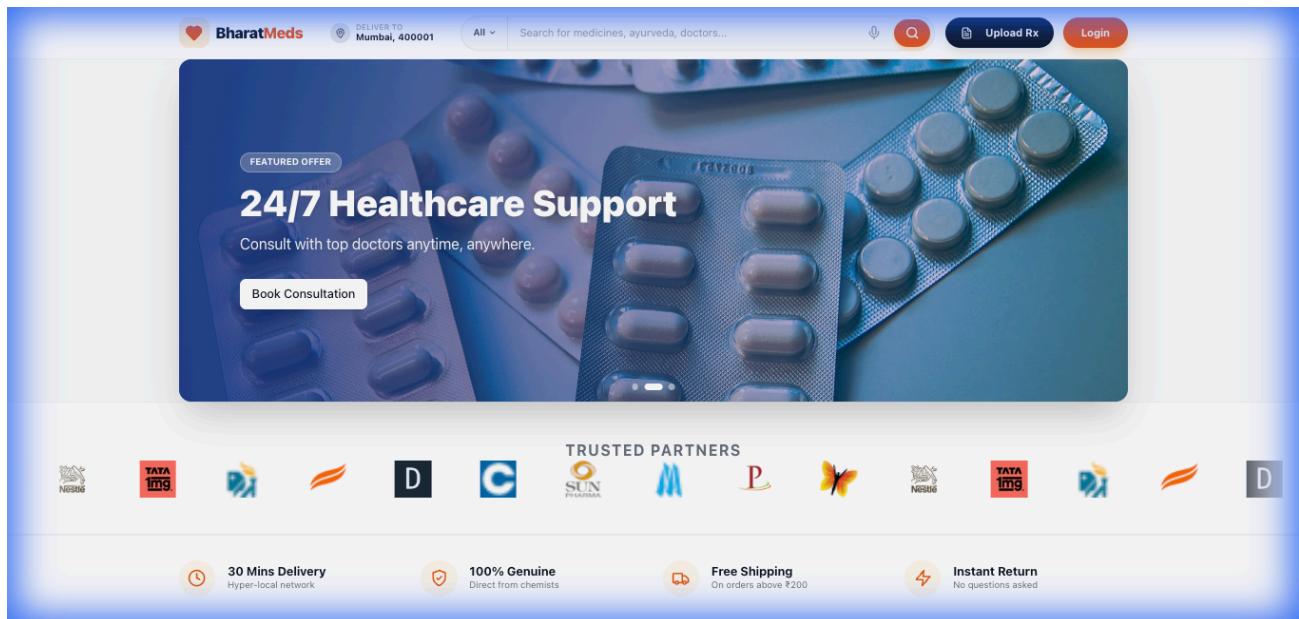
- 1. Unit Testing:** Individual components (e.g., `ProductCard`, `CartItem`) were tested in isolation to verify their logic and rendering.

- 2. Integration Testing:** Modules were tested together (e.g., "Add to Cart" flow updating the Context state) to ensure seamless data flow.
- 3. System Testing:** End-to-end scenarios (Login -> Browse -> Order -> Admin Approval) were executed to validate the complete workflow.

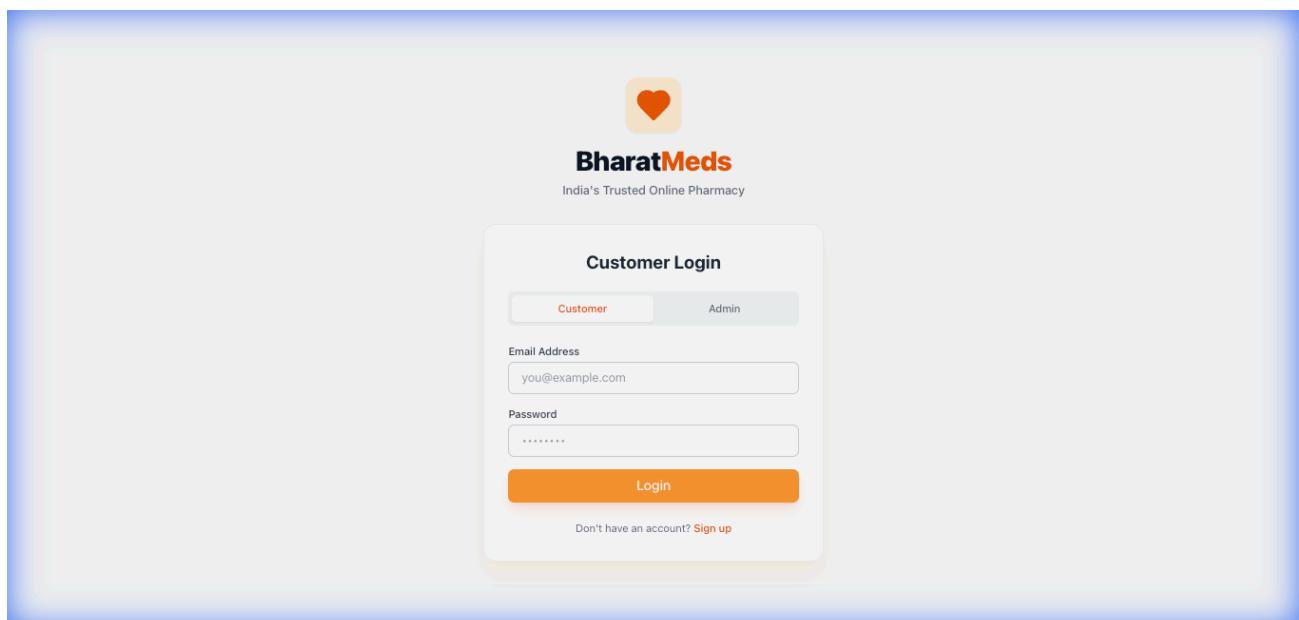
Slides 21-34: Project Screens

(Screenshots will be inserted below)

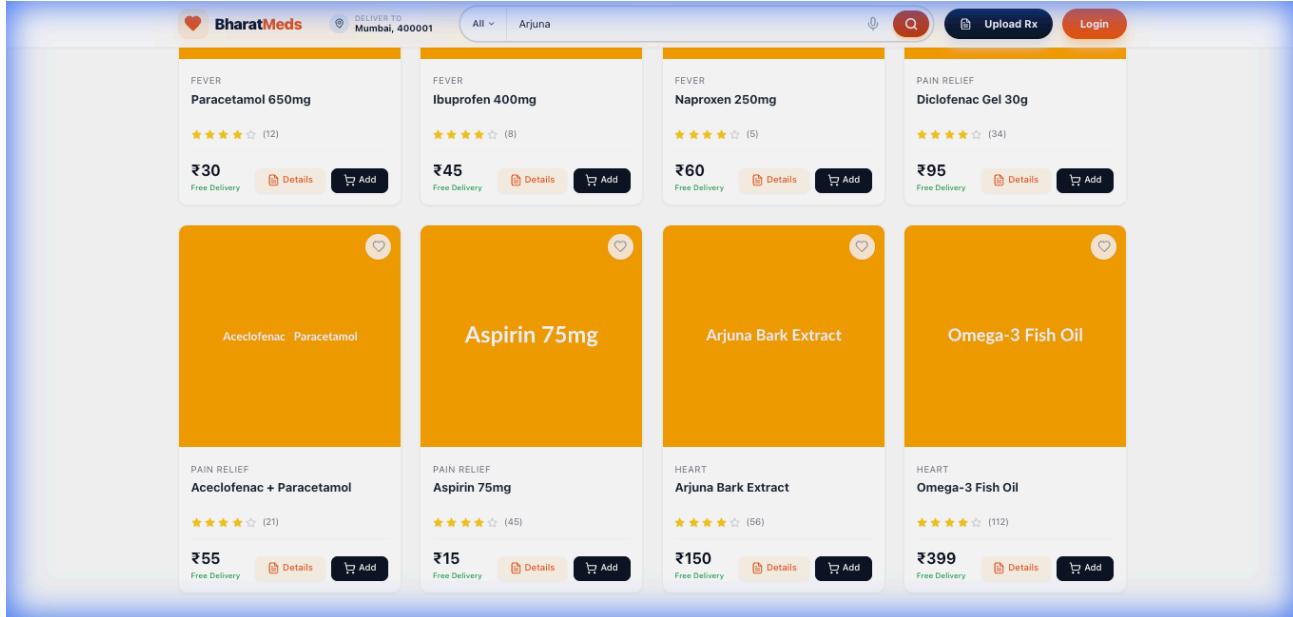
Homepage



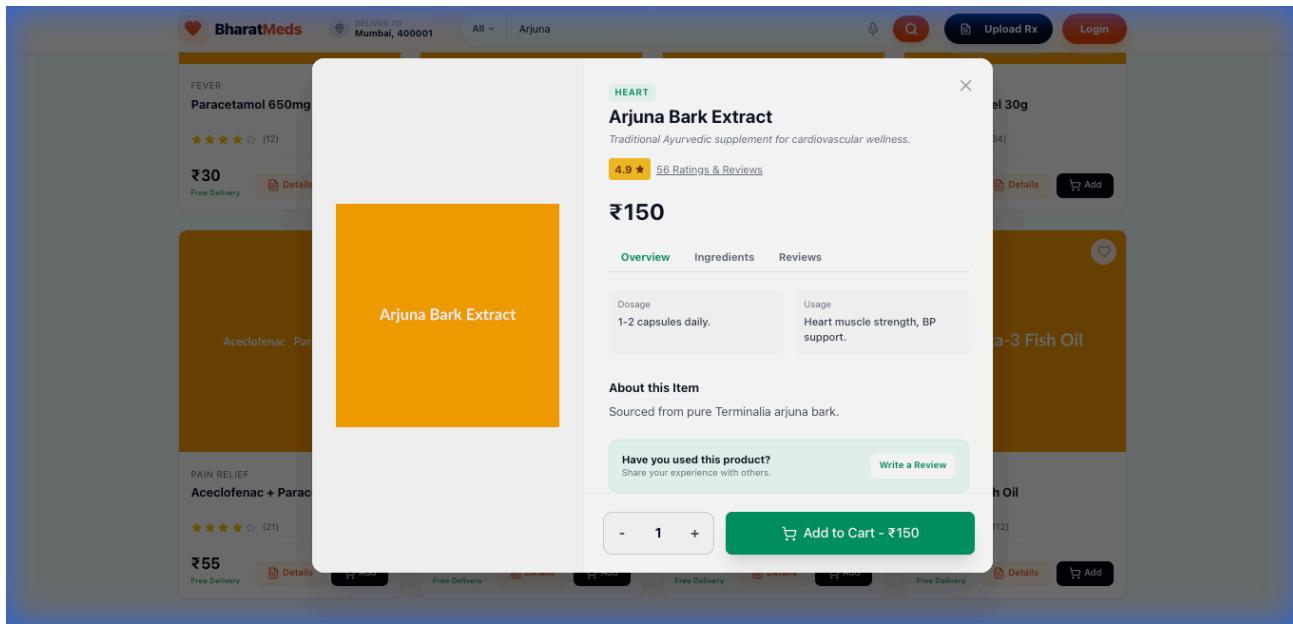
Login Screen



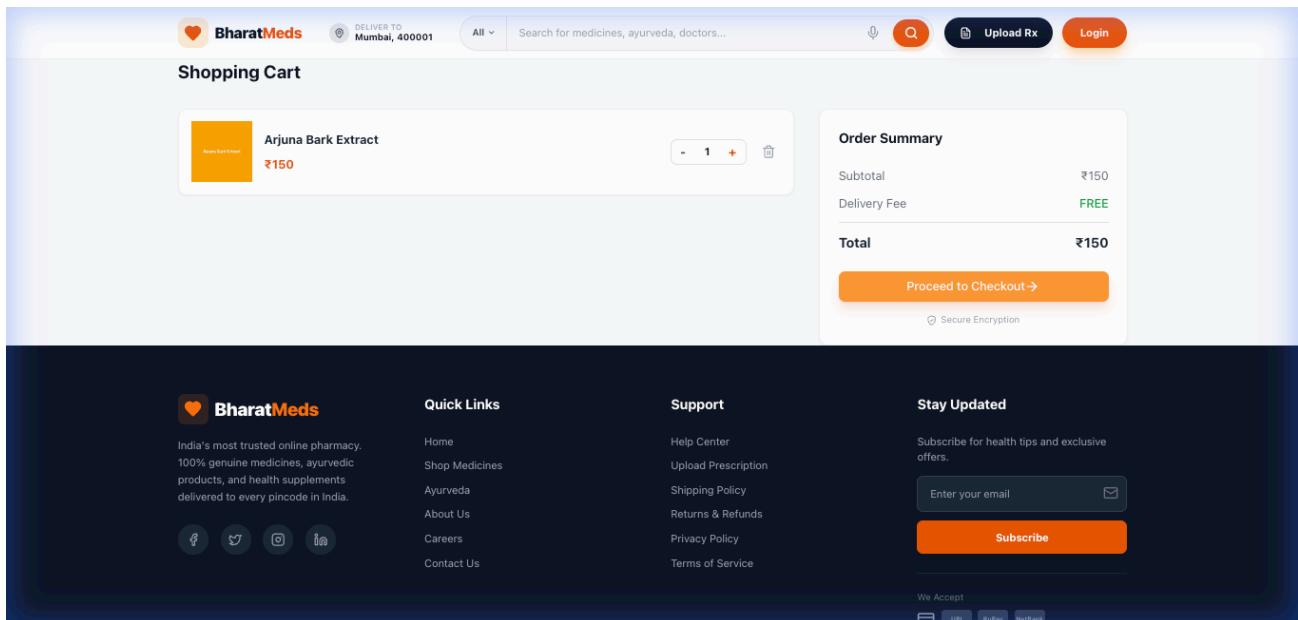
Product Search Results



Product Details Modal

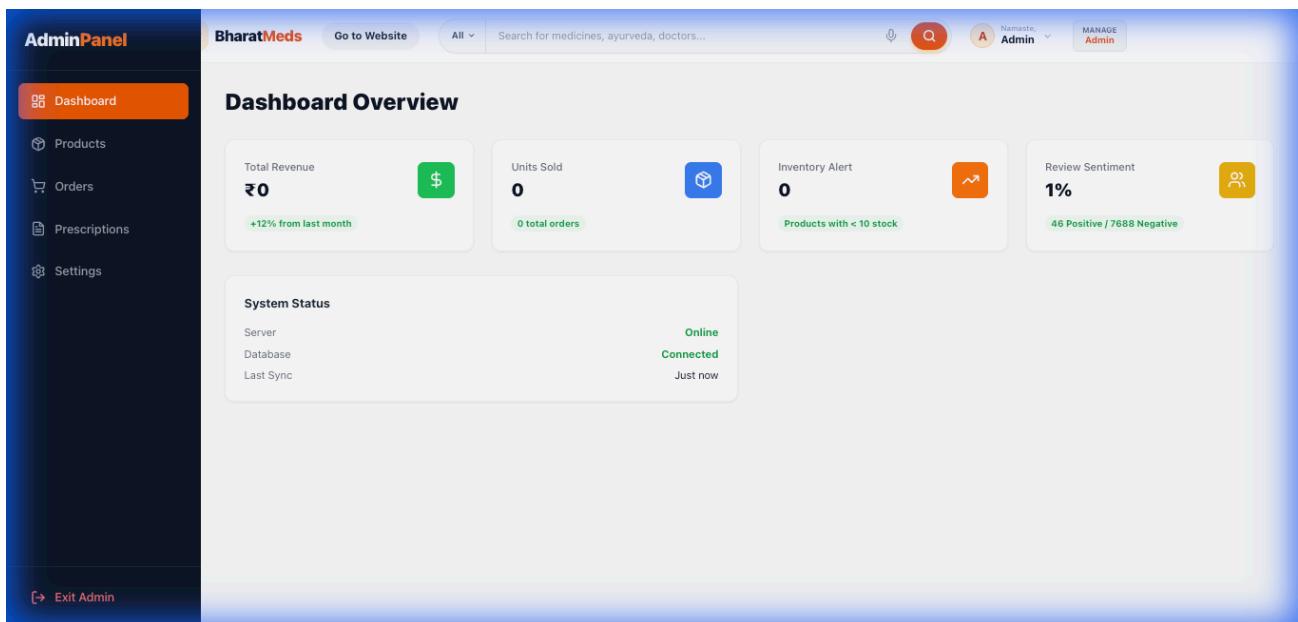


Cart Page



The screenshot shows the BharatMeds shopping cart page. At the top, there's a header with the BharatMeds logo, delivery information to Mumbai, a search bar, and buttons for 'Upload Rx' and 'Login'. Below the header is a 'Shopping Cart' section containing a single item: 'Arjuna Bark Extract' at ₹150. The quantity is set to 1. To the right is an 'Order Summary' box showing a subtotal of ₹150, a free delivery fee, and a total of ₹150. A 'Proceed to Checkout' button is present. At the bottom of the page is a dark footer with links for Quick Links (Home, Shop Medicines, Ayurveda, About Us, Careers, Contact Us), Support (Help Center, Upload Prescription, Shipping Policy, Returns & Refunds, Privacy Policy, Terms of Service), and a 'Stay Updated' section for email subscriptions.

Admin Dashboard



The screenshot shows the BharatMeds Admin Dashboard. On the left is a sidebar with 'AdminPanel' and links for 'Dashboard' (which is active and highlighted in orange), 'Products', 'Orders', 'Prescriptions', and 'Settings'. The main area features a 'Dashboard Overview' section with four cards: 'Total Revenue' (₹0, +12% from last month), 'Units Sold' (0, 0 total orders), 'Inventory Alert' (0, Products with < 10 stock), and 'Review Sentiment' (1%, 46 Positive / 7688 Negative). Below this is a 'System Status' box showing 'Online Connected' for Server, Database, and Last Sync. At the bottom left is a 'Exit Admin' link.

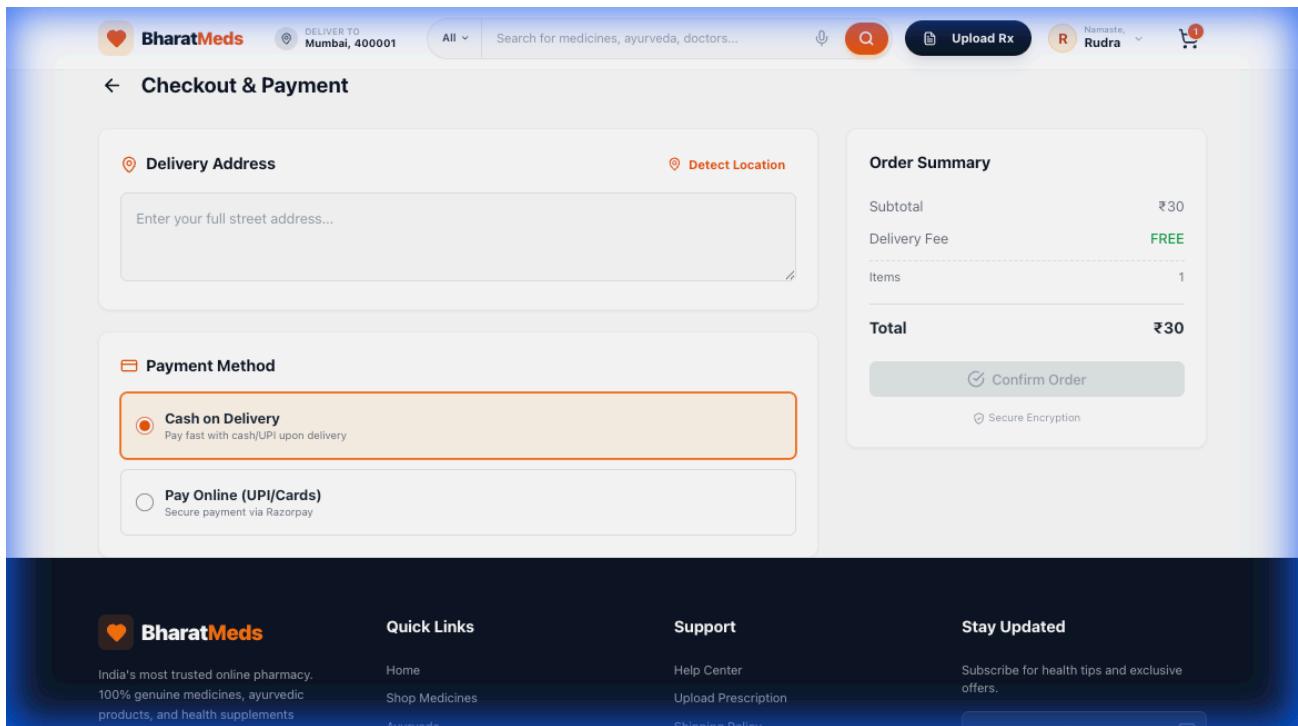
Admin Order Management

The screenshot shows the 'Orders' section of the Admin Panel. On the left, a sidebar menu includes 'Dashboard', 'Products' (which is highlighted in orange), 'Orders' (also highlighted in orange), 'Prescriptions', and 'Settings'. The main content area has a header 'Recent Orders' with filters for 'All', 'Pending', 'Accepted', 'Delivered', and 'Cancelled'. A table below shows columns for ORDER ID, CUSTOMER, ITEMS, TOTAL, STATUS, and ACTION. A message 'No orders found.' is displayed.

Admin Product Management

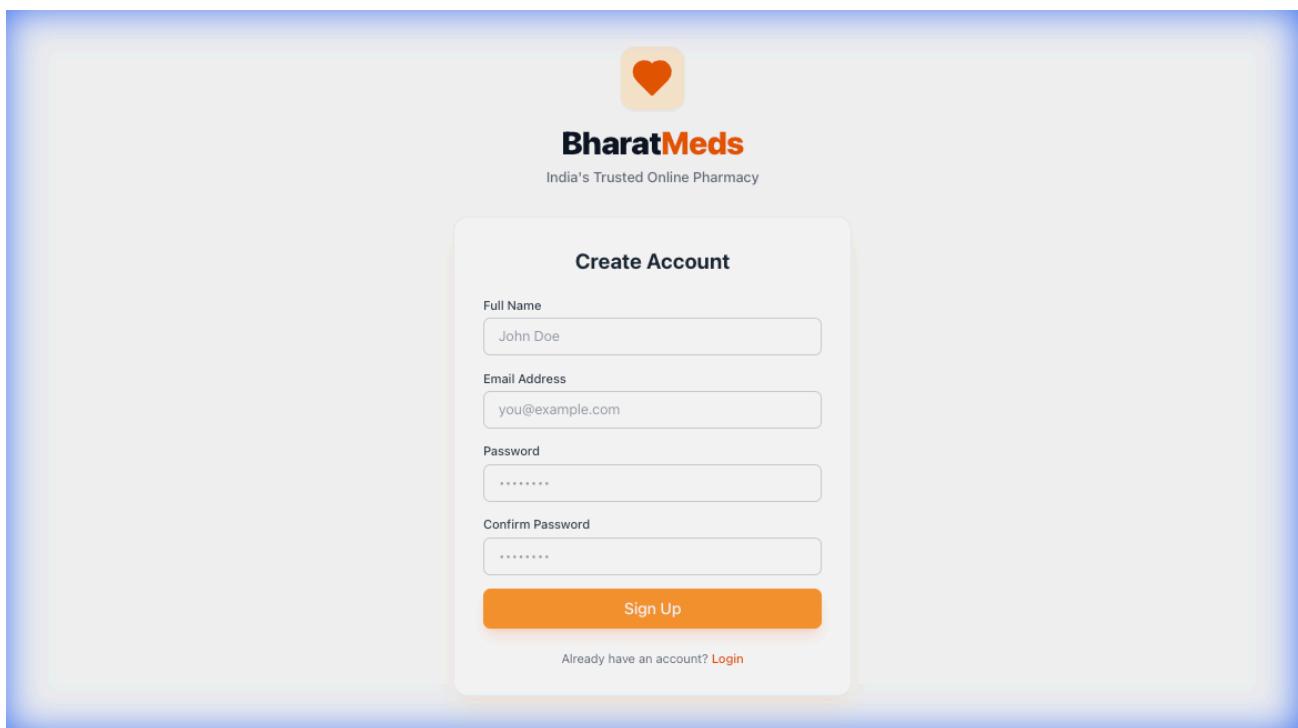
The screenshot shows the 'Products' section of the Admin Panel. The sidebar menu is identical to the previous screenshot. A modal window titled 'Add New Product' is open, prompting for 'Product Name' (e.g., Paracetamol 500mg), 'Price (₹)' (0.00), 'Category' (Select Category), 'Image URL' (https://example.com/image.jpg), 'Description' (Product description...), and 'Stock Quantity' (50). An 'In Stock' button is visible. In the background, a list of existing products like Paracetamol 650mg, Ibuprofen 400mg, Naproxen 250mg, Diclofenac Gel 3%, Aceclofenac + P, Aspirin 75mg, and Arjuna Bark Extract is shown with their respective stock levels (all 50 in stock) and edit/delete icons.

Checkout Page



The screenshot shows the BharatMeds Checkout & Payment page. At the top, there's a header with the BharatMeds logo, delivery location set to Mumbai, 400001, a search bar, and various navigation links like 'Upload Rx' and 'Namaste, Rudra'. Below the header, a back arrow leads to 'Checkout & Payment'. The main area is divided into two sections: 'Delivery Address' and 'Order Summary'. The 'Delivery Address' section has a placeholder 'Enter your full street address...'. The 'Order Summary' section shows a subtotal of ₹30, a delivery fee of FREE, and 1 item. A total of ₹30 is displayed. Below these sections is a 'Payment Method' section with two options: 'Cash on Delivery' (selected) and 'Pay Online (UPI/Cards)'. A 'Confirm Order' button is at the bottom right, along with a note about secure encryption.

Registration Page



The screenshot shows the BharatMeds Registration page. The header features the BharatMeds logo and the tagline 'India's Trusted Online Pharmacy'. Below the header is a large 'Create Account' form. The form fields include 'Full Name' (with 'John Doe' entered), 'Email Address' (with 'you@example.com' entered), 'Password' (a masked input field), and 'Confirm Password' (a masked input field). At the bottom of the form is an orange 'Sign Up' button. Below the form, a link says 'Already have an account? [Login](#)'.

About Us Page

Bringing Health to Every Indian Home

BharatMeds is India's most trusted digital healthcare platform. We are on a mission to make quality healthcare accessible, affordable, and authentic for a billion Indians.

1M+
HAPPY CUSTOMERS

20k+
PINCODES SERVED

50k+
PRODUCTS

4.8
APP RATING

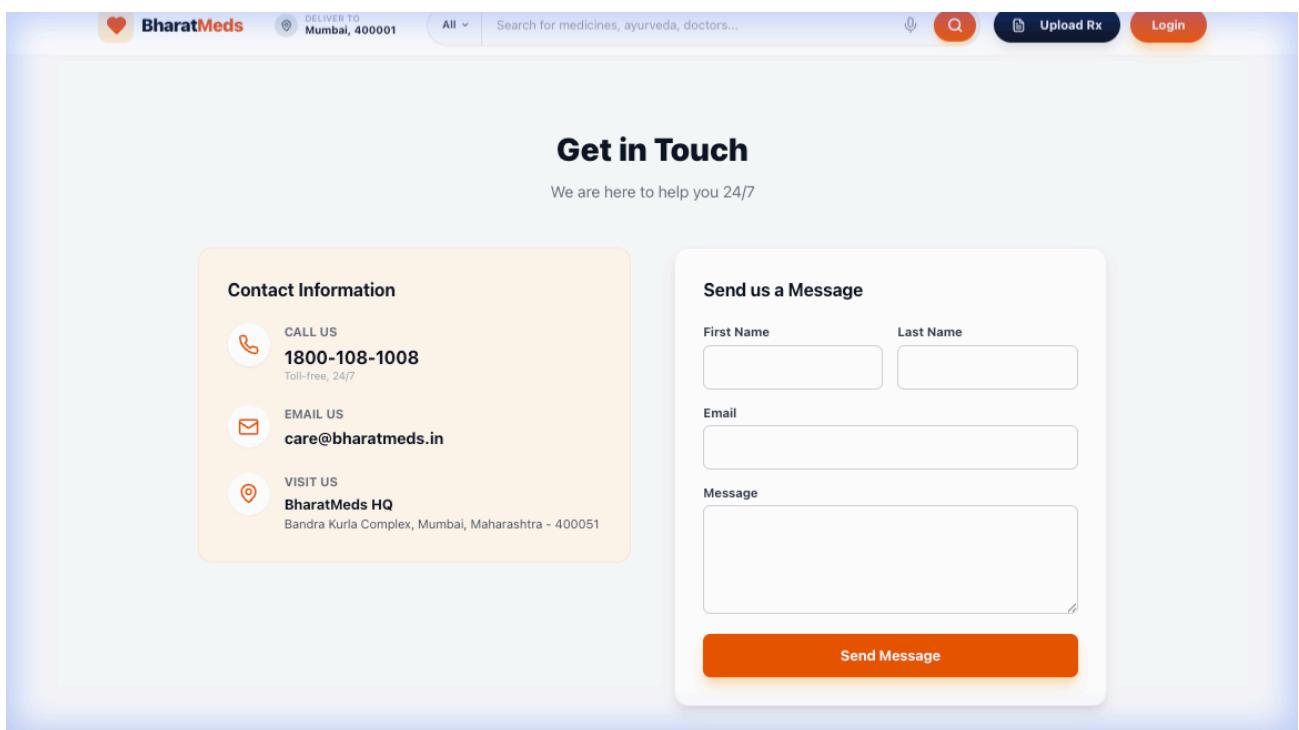


Why We Exist

At BharatMeds, we believe that access to medicines is a fundamental right. In a country as vast as India, getting genuine medicines on time can be a challenge. We are bridging this gap with technology.

100% Genuine Medicines

Contact Us Page



Get in Touch

We are here to help you 24/7

Contact Information

CALL US
1800-108-1008
Toll-free, 24/7

EMAIL US
care@bharatmeds.in

VISIT US
BharatMeds HQ
Bandra Kurla Complex, Mumbai, Maharashtra - 400051

Send us a Message

First Name Last Name

Email

Message

Send Message

Privacy Policy Page

Terms & Policies

Privacy Policy

Last updated: 2/15/2026

At BharatMeds, we take your privacy seriously. This policy describes how we collect, use, and handle your personal information.

- We collect information you provide directly to us (name, address, prescription).
- We use this information to process orders and improve our services.
- We do not sell your personal data to third parties.
- Your payment data is processed securely via PCI-DSS compliant partners.

Terms of Service

By using BharatMeds, you agree to the following terms:

- You must be at least 18 years old to use this service.
- Prescription medicines require a valid doctor's prescription.
- Prices are subject to change without notice.
- We reserve the right to refuse service to anyone.

Shipping & Returns

Shipping

6. Closing Section

Slide 35: Conclusion

Summary of Benefits:

- **Efficiency:** Automates the manual process of order taking and inventory tracking.
- **User Experience:** Provides a clean, modern interface for effortless navigation.
- **Accessibility:** Makes healthcare products available 24/7.
- **Scalability:** Built on a modular React architecture, ready for backend integration and mobile app expansion.

Slide 36: Bibliography & References

1. React Documentation: react.dev
2. Tailwind CSS: tailwindcss.com
3. Vite Build Tool: vitejs.dev
4. MDN Web Docs: developer.mozilla.org

Slide 37: Thank You

Thank You!

Questions?