Roadmap for Business & Commerce Platform Development

Phase 1: MVP (Core Functionalities) - 2 to 3 Months

1. User Authentication & Access Control

- OTP Login (Firebase Authentication / Twilio for SMS OTP)
- Role-based Authentication (Admin, Vendor, Customer, Employee, etc.)

2. Product & Service Listing

- Vendors can add/edit products/services
- Customers can browse, filter, and search products/services
- Categories & Subcategories for structured listings

3. Order Management & Payments

- Add to Cart & Checkout
- Payment Gateway Integration (Stripe/Razorpay/PayPal)
- Order tracking & history

4. Vendor Dashboard

- Sales analytics & performance tracking
- Order management (view, accept, cancel orders)
- Product inventory management

5. Customer Dashboard

- View order history
- Manage wishlist & favorites
- Search & Filter products/services

6. WhatsApp & Email Notifications (Basic)

- Order confirmation & status updates via WhatsApp
- Email receipts & alerts (using SendGrid/AWS SES)

7. Admin Panel (Basic)

- Manage users (Vendors, Customers)
- Approve/reject business registrations
- View analytics

Phase 2: Advanced Vendor & Customer Features - 2 Months

8. Advanced Search & Filters

- Search by keywords, category, price range, etc.
- AI-powered camera search (Google Vision API or OpenCV)
- Voice search (Google Speech API)

9. WhatsApp & SMS Notifications (Advanced)

- Personalized reminders for customers (like Zomato)
- WhatsApp message templates for promotions & offers
- Twilio SMS integration for important updates

10. Business IMDB (Ranking System)

- Vendors get ranked based on sales, ratings, and activity
- Business verification & badges

11. Vendor Inventory Management & Budget Control

- Track stock levels
- Set budgets for advertising & promotions

12. Reviews & Ratings System

- Customers can rate vendors & products
- Review moderation system for admins

13. Event Management & Bookings

- Vendors can list and manage events (business expos, product launches)
- Customers can book slots for appointments & events

14. Employee Panel

- Manage region-specific vendors & customers
- Handle on-ground support

Phase 3: Expansion & Monetization - 3 Months

15. Live Product Selling

- Vendors can stream live sales events (Agora API/WebRTC)
- Customers can buy in real time

16. Business Group Creation

- Vendors can create groups for networking
- Customers can follow businesses for updates

17. Vendor & Customer Referral Programs

- Referral codes for discounts & commissions
- Direct Business Registration Commissions

18. Auctions & Expiring Materials Sale

- Vendors can list auctions for limited-time deals
- Customers can bid on products/services

19. Ads & Sponsored Listings

- Vendors can pay to promote products
- Sponsored listings appear higher in search results

20. B2B Commission & Partnerships

- Vendors can collaborate for bulk orders
- Commission model for B2B deals

Phase 4: AI, Insights & Scalability - 3+ Months

21. AI-Powered Customer Support

- Chatbot integration (OpenAI API / Rasa)
- Automated order tracking responses

22. Service Tracking

- Live tracking of services & deliveries
- Customer ETA notifications

23. Advanced Customer Insights & Analytics

- Personalized recommendations (AI-driven)
- Festival season insights & business trends

24. ARP Tele-calling Panel

- Manage incoming leads & customer queries
- Integrated CRM for lead management

Technology Stack

Frontend (React)

- React.js + Redux
- Tailwind CSS / Material UI
- WebRTC (For Live Selling)

Backend (Node.js + Express + MongoDB/MySQL)

- Node.js with Express.js
- MongoDB / MySQL for database
- Redis (Caching for performance)

Authentication

- Firebase Auth (OTP login)
- JWT (User authentication & role management)

Messaging & Notifications

- Twilio (WhatsApp & SMS)
- SendGrid / AWS SES (Emails)
- Firebase Cloud Messaging (Push Notifications)

Payments

- Razorpay / Stripe / PayPal

Search & AI

- ElasticSearch / Algolia
- OpenAI (Chatbot)
- Google Vision API (Image Search)

Hosting & Deployment

- **Frontend:** Vercel / AWS Amplify
- **Backend:** AWS EC2 / DigitalOcean
- **Database:** AWS RDS (for MySQL) or MongoDB Atlas
- **File Storage:** AWS S3