

NEW PROJECT SET - WEB SOFTWARE DEVELOPMENT (MERN STACK) — STARTUP REALITY FOCUS

Real Startup Use Cases – Hands-on Product Building

Project 1 — Hyperlocal Service Marketplace (Urban Company Clone)

Problem Statement:

Develop a service booking platform where users can hire local professionals (plumbers, electricians, beauticians, etc.) with live tracking, ratings, and secure payment options.

Use Case:

Build a small-scale Urban Company-style platform to understand hyperlocal service logistics and provider-user management.

Key Modules:

- User Registration (OTP-based optional)
- Location-based Service Search & Booking
- Service Provider Profiles
- Ratings & Reviews System
- Booking History (User & Provider)
- Admin Panel (Service/Provider/Booking Management)
- Razorpay or Stripe Payment Gateway Integration

Week-wise Development Plan:

Week	Backend (Node.js + Express)	Frontend (React.js)
Week 1	JWT Authentication (User, Provider, Admin roles) Bcrypt Password Hashing	React Setup Auth UI Homepage & Service Listings
Week 2	Service APIs: List, Book, Manage Appointments	API Integration Booking Forms Payment Page
Mid Project	Authentication, Service Listings, and Booking API	Basic booking flow and service

Week	Backend (Node.js + Express)	Frontend (React.js)
Review	integration completed	search implemented
Week 3	Booking Status APIs (Scheduled, Completed, Cancelled)	Booking History Dashboard Ratings & Reviews UI
Week 4	Payment Gateway Integration API Cleanup & Testing	Responsive UI Admin Dashboard
Final Project Review	All modules functional: <ul style="list-style-type: none"> - Auth & Role Access - Booking & Ratings - Admin Panel - Payments 	Fully responsive frontend: <ul style="list-style-type: none"> - User & Admin dashboards - Booking flow - Payment flow

Project 2 — Niche E-commerce Platform for Handmade Products (Desi Etsy)

Problem Statement:

Build a mini marketplace where local artisans can register, list handmade products, and customers can purchase them online.

Use Case:

Create a “Desi Etsy” for rural/urban handmade product sellers to explore niche e-commerce functionality.

Key Modules:

- Artisan Registration & Product Management
- Product Categories & Smart Filters
- Shopping Cart & Order Checkout
- Razorpay Payment Integration
- Admin Panel (Artisan Verification & Product Approval)

Week-wise Development Plan:

Week	Backend (Node.js + Express)	Frontend (React.js)
Week 1	User/Artisan Auth APIs Artisan Approval APIs	Product Listings + Filter UI Artisan Dashboard
Week 2	Product CRUD APIs (Artisan side)	Cart Functionality

Week	Backend (Node.js + Express)	Frontend (React.js)
	Admin Product Approval	Checkout Pages
Mid Project Review	Auth, product listing, approval flow, and cart APIs completed	Add-to-cart, filtering, and checkout frontend functional
Week 3	Order APIs Status Updates (Packed, Shipped, Delivered) Payment APIs	Order History Page Responsive UI Fixes
Week 4	Admin Dashboard APIs Final Testing & Deployment Readiness	Admin Panel UI SEO Optimization
Final Project Review	All modules functional: - Product CRUD & Orders - Payment Integration - Admin Controls	Complete frontend: - Mobile Responsive - Artisan/Admin Dashboards - SEO Ready

Project 3 — On-demand Home Cook Food Delivery Platform

Problem Statement:

Create a platform where home chefs upload daily meal menus and users nearby can order home-cooked food for delivery or pickup.

Use Case:

Hyperlocal food delivery app focused on fresh, homemade meals and real-time order tracking.

Key Modules:

- Home Chef Registration & Daily Menu Upload
- User Registration with Location Detection
- Ordering System (Cart, Checkout, Status Tracking)
- Optional Delivery Integration
- Admin Panel for Order & Menu Monitoring

Week-wise Development Plan:

Week	Backend (Node.js + Express)	Frontend (React.js)
Week 1	Auth APIs (User, Chef) Meal Menu Management APIs	Meal Listing UI Chef Dashboard for Menu Upload

Week	Backend (Node.js + Express)	Frontend (React.js)
Week 2	Cart APIs Order Processing Workflows	Order Confirmation Screen Basic Live Tracking View
Mid Project Review	Menu, cart, and ordering workflows implemented	Cart, order page, and chef dashboard connected to APIs
Week 3	Delivery Status APIs Payment Gateway Integration	Order Tracking UI Optional Notifications Setup
Week 4	Admin APIs Deployment Optimization	Final UI Polish Progressive Web App (PWA) Support
Final Project Review	All modules functional: - Chef/User Dashboard - Menu Management - Orders + Payment	Responsive PWA-ready frontend: - Order & Menu Flow - Admin & Chef UIs

Overall Project Summary

Project	Business Type	Technology Focus
Hyperlocal Service Marketplace	Services Booking	React.js, Node.js, MongoDB, Payments
Handmade Products Marketplace	E-commerce for Artisans	Full MERN Stack, Marketplace Dynamics
Home Cook Food Delivery Platform	Hyperlocal Food Business	Full MERN Stack, Real-time Ordering & Delivery

Common Features Across All Projects

- Secure JWT-based Authentication (User, Admin, Provider Roles)
- MongoDB Schema Design and Data Modeling
- RESTful API Development using Express.js
- Protected Routes and Component-based React Architecture
- Razorpay/Stripe Payment Gateway Integration
- Mobile-Responsive, Component-Driven UI Design
- Admin Dashboards for Centralized Management
- Full-Stack Deployment (Frontend and Backend)

