WEEK 11

PROJECT NAME	DIGITAL TOWN PLATFORM

PROJECT DESCRIPTION :

DESIGN TO PROVIDE TOWN-LEVEL INFORMATION, SERVICES,THROUGH A SINGLE SYSTEM

GROUP MEMBER :

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2025G152

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23/02/2026	**Marketplace Backend Implementation** • Implemented Product schema and CRUD APIs for product management. • Developed Cart functionality allowing users to manage item quantities. • Designed Order schema with seller-wise grouping of purchased items. • Implemented order lifecycle logic (placed → accepted → completed). • Added cancellation request workflow and soft-delete functionality.
24/02/2026	**Authentication & Authorization Enhancements** • Integrated centralized axiosInstance for automatic JWT token handling. • Resolved 401 Unauthorized errors in Marketplace APIs. Fixed Vite proxy routing configuration. • Strengthened role-based middleware for protected routes. Conducted integration testing across modules.
25/02/2026	**Role-Based UI Switching Implementation** • Implemented toggleSellerMode logic inside AuthContext. • Added "Switch to Seller Dashboard" functionality in Profile page. • Configured isolated /seller route for seller interface. • Ensured Navbar hides dynamically in seller mode. • Prevented UI conflicts with Admin routes.
26/02/2026	**Marketplace Frontend Integration** • Developed ProductCard component. • Integrated Add-to-Cart functionality with backend API. • Implemented defensive UI rendering for undefined states. • Debugged token-related authorization issues. Improved frontend error handling.

27/02/2026	**Module Integration & Final Testing** • **Verified seller approval updates database roles and status correctly.** • **Ensured login/profile APIs return updated role information. Refined role-switch logic for UI consistency.** • **Conducted cross-module testing between Marketplace, Services, and Admin.** • **Corrected minor UI alignment issues.**
28/02/2026	**4th Saturday**
22/02/2026	**Holiday (Sunday)**

Next Week Plan	• **Design and Implement Seller Analytics Dashboard Develop a dedicated seller analytics dashboard under /seller/analytics to visualize order trends and product-level performance insights using aggregated order data.** • **Location-Based Demand Analysis Engine Implement backend aggregation pipelines (MongoDB aggregation framework) to analyze order distribution by geographic regions (city/area/pincode) and identify high-demand zones for specific products.** • **Demand Heatmap & Insights Visualization Integrate location-based visualization (map-based heatmap or region clustering) on the frontend to help sellers identify demand concentration areas and make data-driven inventory decisions.**

Github link:

https://github.com/MeetanshuP/Digital_Town_Management

SCREEN SHOTS :

Seller Dashboard

Switch to Buyer Mode   Logout

My Products   Orders

Seller Orders

Order #78e27c
3/2/2026, 11:07:05 AM   placed

Buyer:
Email: demouser1@gmail.com

Cabbage
Qty: 2   ₹120

Carrots
Qty: 1   ₹80

Total   ₹200

Accept   Cancel

Order #e9cb1b
2/26/2026, 12:30:50 PM   accepted

Buyer:
Email: demouser1@gmail.com

Cabbage
Qty: 2   ₹120

Banana