



**BHASKARACHARYA NATIONAL INSTITUTE FOR
SPACE APPLICATIONS AND GEO-INFORMATICS**
WEEKLY PROGRESS REPORT (23/02/2026 – 01/03/2026)

WEEK 11

PROJECT NAME	DIGITAL TOWN PLATFORM
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PROJECT DESCRIPTION :

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

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23/02/2026	<p>Marketplace Backend Implementation</p> <ul style="list-style-type: none"> 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	<p>Authentication & Authorization Enhancements</p> <ul style="list-style-type: none"> 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	<p>Role-Based UI Switching Implementation</p> <ul style="list-style-type: none"> 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	<p>Marketplace Frontend Integration</p> <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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	4 th Saturday
22/02/2026	Holiday (Sunday)

Next Week Plan	<ul style="list-style-type: none"> 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.
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Github link:

https://github.com/MeetanshuP/Digital_Town_Management

SCREEN SHOTS :

VillageConnect

Home News Services Market Grievance Events

Demo

Marketplace



Carrots
₹80

- 1 +



Cabbage
₹60

- 2 +



Banana
₹120

Add to Cart

Cart Summary

Carrots × 1	₹80
Cabbage × 2	₹120
Total Items	3
Subtotal	₹200

Payment: Cash on Delivery

Place Order

Seller Dashboard

Switch to Buyer Mode Logout

My Products

Add Product

Title Price Fruits No file chosen

Add Product



Banana
₹ 120
Status available

Toggle Availability **Delete**



Cabbage
₹ 60
Status available

Toggle Availability **Delete**



Carrots
₹ 80
Status available

Toggle Availability **Delete**

[My Products](#)[Orders](#)**Seller Orders****Order #78e27c**
3/2/2026, 11:07:05 AMBuyer:
Email: demouser1@gmail.com**Cabbage**

Qty: 2

placed

₹120

**Carrots**

Qty: 1

₹80

Total

₹200

[Accept](#)[Cancel](#)**Order #e9cb1b**
2/26/2026, 12:30:50 PMBuyer:
Email: demouser1@gmail.com**Cabbage**

Qty: 2

accepted

₹120

**Banana**