



**BHASKARACHARYA NATIONAL INSTITUTE FOR  
SPACE APPLICATIONS AND GEO-INFORMATICS**  
WEEKLY PROGRESS REPORT (23/02/2026 – 27/02/2026)

WEEK 11

PROJECT NAME	DIGITAL TOWN PLATFORM
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**PROJECT DESCRIPTION :**

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

**GROUP MEMBER :**

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**GROUP ID :**

**2025G152**

**GROUP GUIDE :**

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23/02/2026	<b>Marketplace Backend Implementation</b> <ul style="list-style-type: none"> <li>• Implemented Product schema and CRUD APIs for product management.</li> <li>• Developed Cart functionality allowing users to manage item quantities.</li> <li>• Designed Order schema with seller-wise grouping of purchased items.</li> <li>• Implemented order lifecycle logic (placed → accepted → completed).</li> <li>• Added cancellation request workflow and soft-delete functionality.</li> </ul>
24/02/2026	<b>Authentication &amp; Authorization Enhancements</b> <ul style="list-style-type: none"> <li>• Integrated centralized axiosInstance for automatic JWT token handling.</li> <li>• Resolved 401 Unauthorized errors in Marketplace APIs. Fixed Vite proxy routing configuration.</li> <li>• Strengthened role-based middleware for protected routes. Conducted integration testing across modules.</li> </ul>
25/02/2026	<b>Role-Based UI Switching Implementation</b> <ul style="list-style-type: none"> <li>• Implemented toggleSellerMode logic inside AuthContext.</li> <li>• Added “Switch to Seller Dashboard” functionality in Profile page.</li> <li>• Configured isolated /seller route for seller interface.</li> <li>• Ensured Navbar hides dynamically in seller mode.</li> <li>• Prevented UI conflicts with Admin routes.</li> </ul>
26/02/2026	<b>Marketplace Frontend Integration</b> <ul style="list-style-type: none"> <li>• Developed ProductCard component.</li> <li>• Integrated Add-to-Cart functionality with backend API.</li> <li>• Implemented defensive UI rendering for undefined states.</li> <li>• Debugged token-related authorization issues. Improved frontend error handling.</li> </ul>

<b>27/02/2026</b>	<b>Module Integration &amp; Final Testing</b> <ul style="list-style-type: none"> <li>• Verified seller approval updates database roles and status correctly.</li> <li>• Ensured login/profile APIs return updated role information. Refined role-switch logic for UI consistency.</li> <li>• Conducted cross-module testing between Marketplace, Services, and Admin.</li> <li>• Corrected minor UI alignment issues.</li> </ul>
<b>28/02/2026</b>	<b>4<sup>th</sup> Saturday</b>
<b>22/02/2026</b>	<b>Holiday (Sunday)</b>

<b>Next Week Plan</b>	<ul style="list-style-type: none"> <li>• <b>Design and Implement Seller Analytics Dashboard</b> Develop a dedicated seller analytics dashboard under /seller/analytics to visualize order trends and product-level performance insights using aggregated order data.</li> <li>• <b>Location-Based Demand Analysis Engine</b> 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.</li> <li>• <b>Demand Heatmap &amp; Insights Visualization</b> 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.</li> </ul>
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**Github link:**

**[https://github.com/MeetanshuP/Digital\\_Town\\_Management](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
<hr/>	
Total Items	3
Subtotal	₹200
Payment: Cash on Delivery	
<div>Place Order</div>	

**Seller Dashboard**

Switch to Buyer Mode [Logout](#)

My Products

Orders

### My Products

Add Product


Title

Price

Fruits

Choose File 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

Page 4

My Products

Orders

## Seller Orders

## Order #78e27c

3/2/2020, 11:07:05 AM

placed

Buyer:  
Email: demouser1@gmail.comCabbage  
Qty: 2

₹120

Carrots  
Qty: 1

₹80

Total

₹200

Accept

Cancel

## Order #e9cblb

2/26/2020, 12:30:50 PM

accepted

Buyer:  
Email: demouser1@gmail.comCabbage  
Qty: 2

₹120



Banana