



**BHASKARACHARYA NATIONAL INSTITUTE FOR SPACE  
APPLICATIONS AND GEO-INFORMATICS**

**WEEKLY PROGRESS REPORT (16/02/2026 – 22/02/2026)**

**WEEK 11**

**PROJECT NAME**

**DIGITAL TOWN PLATFORM**

**PROJECT DESCRIPTION :**

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

**GROUP MEMBER :**

**Vandit Muniya, Mitanshu Parmar**

**GROUP ID :**

**2025G152**

**GROUP GUIDE :**

**Dr. MANOJ PANDYA**

**GROUP COORDINATOR :**

**SIDHDHARTH PATEL**

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**NEHA FOTEDAR**

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**COLLEGE NAME :**

**DHARMSINH DESAI UNIVERSITY, NADIAD**

16/02/2026	<ul style="list-style-type: none"> <li>• <b>Vandit Muniya: Absent.</b></li> <li>• <b>Mitanshu Parmar: Initiated implementation of interactive manual location selection. Integrated useMapEvents from react-leaflet to capture map click events and enabled draggable functionality for the “Your Location” marker. Structured onUserLocationChange prop flow for parent-child communication.</b></li> </ul>
17/02/2026	<ul style="list-style-type: none"> <li>• <b>Vandit Muniya: Implemented handleManualLocationChange in Services.jsx to update currentLatLng state based on user interaction. Connected updated coordinates with service-fetching workflow and ensured smooth state updates.</b></li> <li>• <b>Mitanshu Parmar: Integrated reverse-geocoding API (/api/location/reverse-geocode) to dynamically fetch city/area name from selected coordinates and update UI location display.</b></li> </ul>
18/02/2026	<ul style="list-style-type: none"> <li>• <b>Vandit Muniya: Ensured integration between map interaction and backend location APIs. Verified that useEffect dependency on currentLatLng automatically triggers fetchNearbyPlaces after manual location change.</b></li> <li>• <b>Mitanshu Parmar: Performed frontend testing for multiple scenarios (marker dragging, map clicks, rapid coordinate updates) and validated stable rendering without unnecessary re-renders.</b></li> </ul>
19/02/2026	<ul style="list-style-type: none"> <li>• <b>Vandit Muniya: Resolved undefined coordinates issue in ServiceMap.jsx by standardizing backend GeoJSON response format and ensuring consistent location.coordinates structure.</b></li> <li>• <b>Mitanshu Parmar: Added validation checks before marker rendering to prevent crashes due to missing or invalid location data. Conducted edge-case testing.</b></li> </ul>

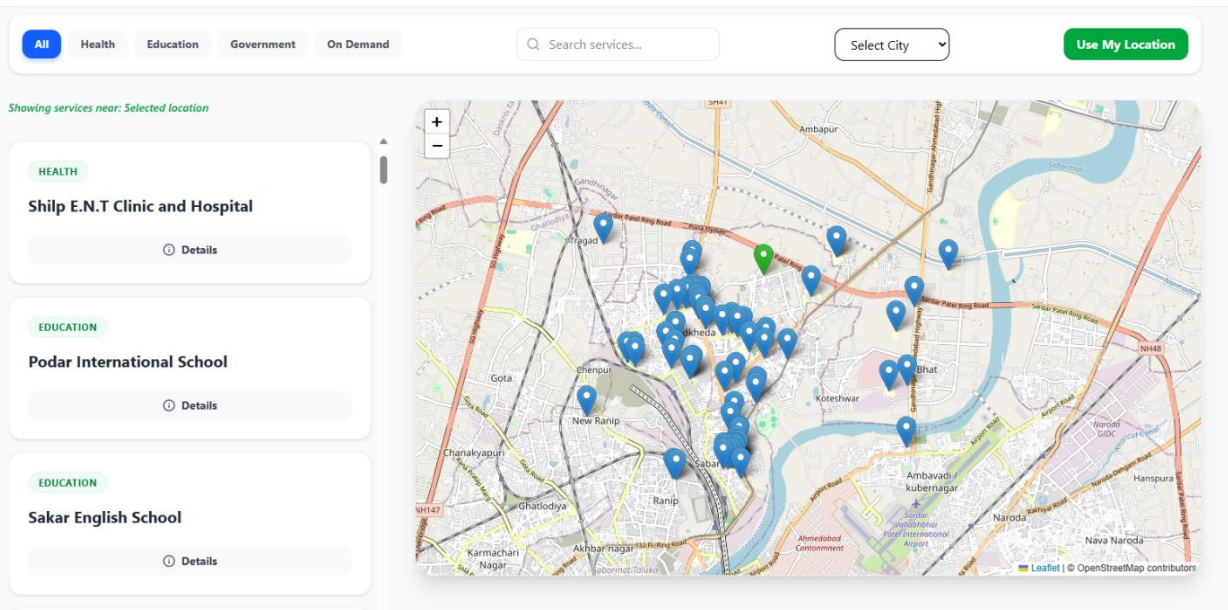
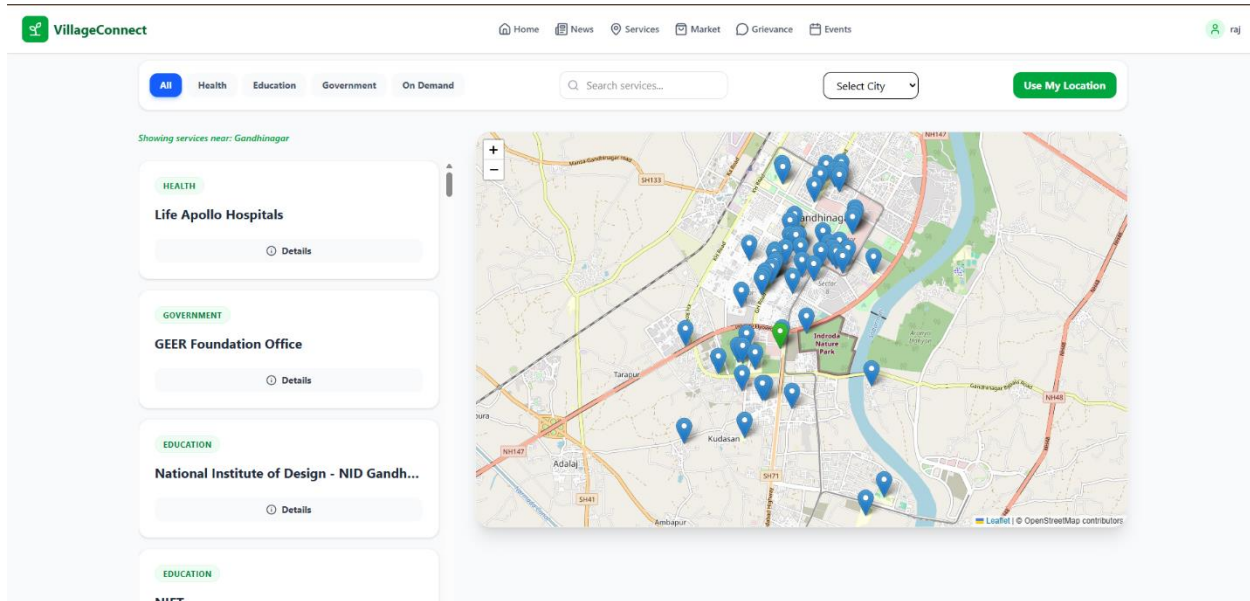
20/02/2026	<ul style="list-style-type: none"> <li>• <b>Vandit Muniya:</b> Refined Service Provider role architecture (user, service_provider, admin) and implemented controlled role upgrade logic in backend. Improved authorization structure for scalability.</li> <li>• <b>Mitanshu Parmar:</b> Implemented and tested role-based middleware for secure access to service-provider-specific routes. Verified route protection and permission handling.</li> </ul>
21/02/2026	<ul style="list-style-type: none"> <li>• <b>Vandit Muniya:</b> Optimized geospatial radius-based service fetching logic and improved controller-level error handling. Refactored service response schema for better frontend compatibility.</li> <li>• <b>Mitanshu Parmar:</b> Conducted API response validation for location-based service retrieval, verified distance calculations, and confirmed consistency of returned service data.</li> </ul>
22/02/2026	Holiday (Sunday)

Next Week Plan	<ul style="list-style-type: none"> <li>• Continue development of the Marketplace module by refining seller workflows, improving dashboard experience, and stabilizing cart and order management logic.</li> <li>• Enhance role-based access control to properly manage Buyer, Seller, Service Provider, and Admin functionalities without conflicts</li> <li>• Improve admin-side management features, including reviewing and handling seller applications more efficiently.</li> </ul>
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**Github link:**

[https://github.com/MeetanshuP/Digital\\_Town\\_Management](https://github.com/MeetanshuP/Digital_Town_Management)

## SCREEN SHOTS :



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