



**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

COLLEGE GUIDE NAME :

NEHA FOTEDAR

COLLEGE GUIDE No. :

NOT ASSIGNED

COLLEGE GUIDE EMAIL. :

Nehafotedar.ce@ddu.ac.in

COLLEGE NAME :

DHARMSINH DESAI UNIVERSITY, NADIAD

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

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

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

Github link:

https://github.com/MeetanshuP/Digital_Town_Management

SCREEN SHOTS :

VillageConnect

All Health Education Government On Demand Search services... Select City Use My Location

Showing services near: Gandhinagar

HEALTH Life Apollo Hospitals Details

GOVERNMENT GEER Foundation Office Details

EDUCATION National Institute of Design - NID Gandh... Details

EDUCATION NIET Details

Showing services near: Selected location

HEALTH Shilp E.N.T Clinic and Hospital Details

EDUCATION Podar International School Details

EDUCATION Sakar English School Details

Leaflet © OpenStreetMap contributors

All Health Education Government On Demand

Search services... Select City Use My Location

Showing services near: Ambapur

HEALTH

Vishwas Kamdhenu Panchgavya Aarogya...

Details

GOVERNMENT

Tapovan Sanskar Peeth

Details

EDUCATION

Tapovan Sanskar Peeth

Details

All Health Education Government On Demand

Search services... Select City Use My Location

Showing services near: Selected location

GOVERNMENT

Tapovan Sanskar Peeth

Details

EDUCATION

SSIT (shree Swaminarayan institute of te...

Details

EDUCATION

Anand Niketan Sughad

Details