WEEK 10

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 :

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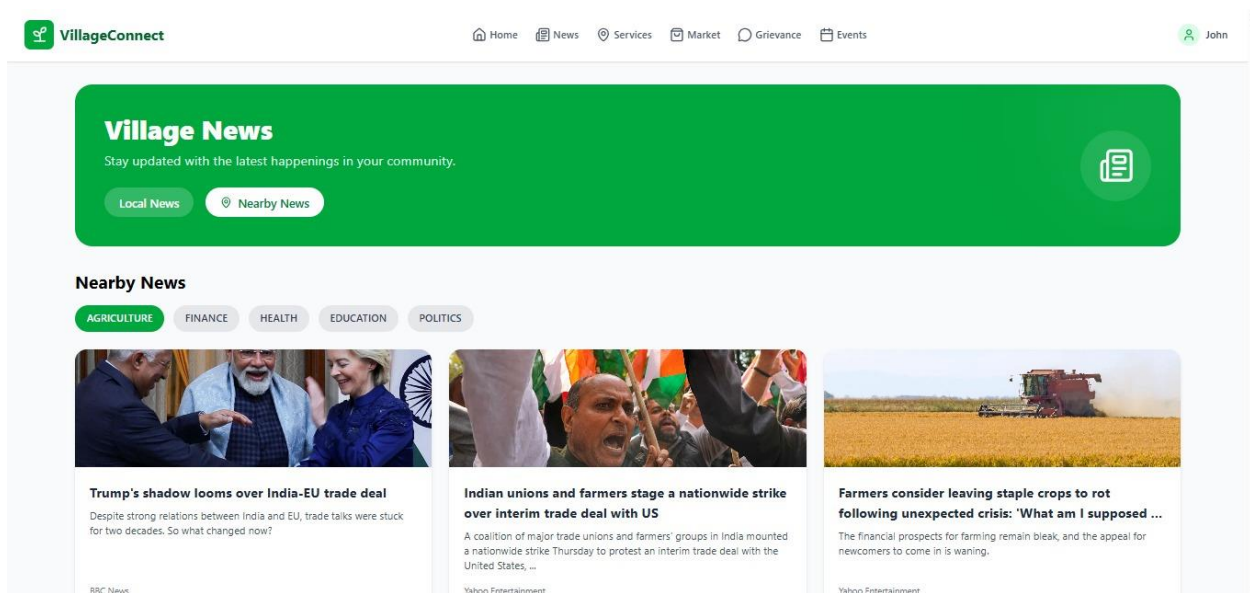|	
09/02/2026	• **Vandit Muniya: Planned the complete integration workflow for location-based news (Browser Geolocation → Reverse Geocoding → External News API → Backend Normalization → Frontend Rendering). Designed a category-based toggle system (Agriculture, Finance, Health, Education, Politics) and structured the backend route /api/news/location.** • **Mitanshu Parmar: Reviewed proposed system architecture and validated the logical flow between frontend geolocation capture and backend processing pipeline.**
10/02/2026	• **Vandit Muniya: Implemented backend controller function getLocationBasedNews. Integrated OpenStreetMap Nominatim API for reverse geocoding (latitude/longitude → city/state). Developed news.service.js to fetch data from NewsAPI and implemented category mapping logic aligning UI categories with API-supported parameters.** • **Mitanshu Parmar: Tested reverse geocoding responses and validated category mapping logic against different input scenarios to ensure correct API parameter transformation.**
11/02/2026	• **Vandit Muniya: Configured environment variables for secure NewsAPI key storage in backend .env. Integrated dotenv configuration in index.js. Debugged 500 Internal Server Errors caused by missing API keys and incorrect service imports.** • **Mitanshu Parmar: Assisted in backend testing, verified environment configuration, and validated successful API authentication after resolving server-side errors.**
12/02/26	• **Vandit Muniya: Diagnosed zero-result issue from NewsAPI /v2/top-headlines endpoint and revised API strategy to use /v2/everything endpoint. Modified query logic to keyword-based search (state + category).**

	Implemented improved error handling and response validation in service layer. Verified successful article retrieval with accurate count and structured response fields. • **Mitanshu Parmar:** Conducted API response testing with multiple state-category combinations and confirmed consistency of returned articles and response schema.
13/02/2026	• **Vandit Muniya:** Developed frontend component `LocationNews.jsx` for location-based news rendering. Implemented category toggle UI with dynamic state management. Integrated backend API through `newsApi.js` service file. Added defensive state handling (`Array.isArray` validation) to prevent runtime errors. Enhanced UI by replacing unordered list layout with responsive Tailwind-based card design. • **Mitanshu Parmar:** Performed frontend validation testing, verified category toggle functionality, and reviewed UI responsiveness across different test cases.
14/02/2026	**Holiday(second Saturday)**
15/02/2026	**Holiday (Sunday)**

Next Week Plan	• **Continue development of the Service Provider module, completing remaining backend workflows such as service provider registration, profile management, and service assignment logic.** • **Implement and finalize service provider–specific APIs, including:** • **Viewing assigned service requests** • **Accepting / rejecting service requests** • **Updating service status (Pending → In Progress → Completed)** • **Managing provider availability**

Github link:

https://github.com/MeetanshuP/Digital_Town_Management

SCREEN SHOTS :

VillageConnect

Home   News   Services   Market   Grievance   Events

John

Nearby News

AGRICULTURE   FINANCE   HEALTH   EDUCATION   POLITICS

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