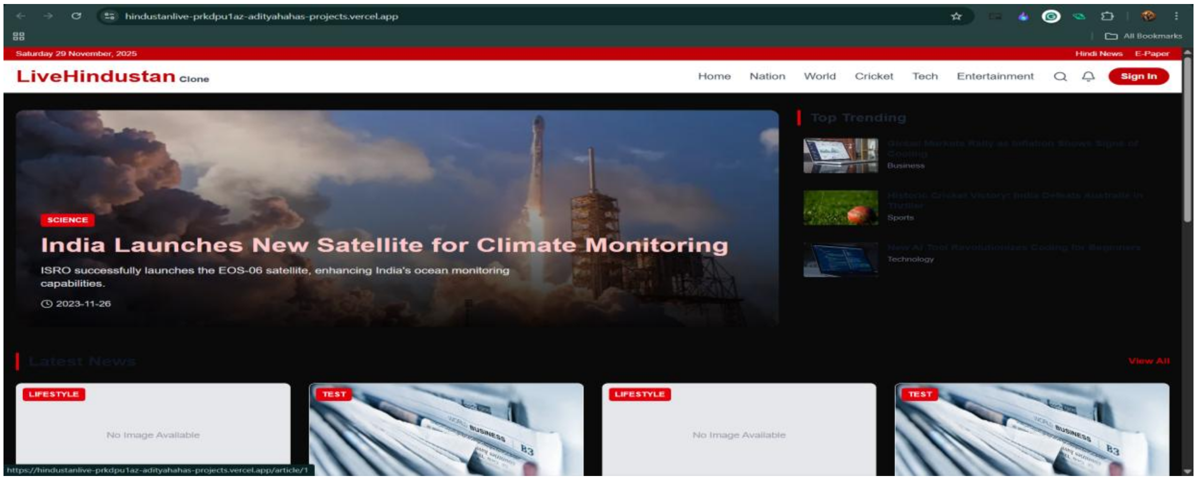
Name: Aditya Gupta **Project:** Hindustan Live Clone

Part B – Explanation + Documentation

1. Design Document

Wireframe & Layout Description

- **Header:** A dual-layer navigation bar. The top bar is "News Red" with date/time. The main white navbar contains the logo ("LiveHindustan"), primary navigation links, and user tools.
- **Hero Section:** A 2-column asymmetric layout.
  - **Left (Featured):** Displays the first article from data.js with a large background image.
  - **Right (Top Trending):** A sidebar listing articles 2 and 3 for high-density scanning.
- **Latest News Grid:** A responsive card grid displaying the remaining articles.
- **Footer:** Dark blue section with "Quick Links", "Categories", and a "Subscribe" form.



hindustanlive-prkdpu1az-adityahahas-projects.vercel.app

Saturday 29 November, 2025

SCIENCE

India Launches New Satellite for Climate Monitoring

ISRO successfully launches the EOS-06 satellite, enhancing India's ocean monitoring capabilities.

2023-11-26

Top Trending

Global Markets Rally as Inflation Shows Signs of Cooling

Business

Historic Cricket Victory! India Defeats Australia in Thriller

Sports

New AI Tool Revolutionizes Coding for Beginners

Technology

Latest News

LIFESTYLE

No Image Available

TEST

LIFESTYLE

No Image Available

TEST

https://hindustanlive-prkdpu1az-adityahahas-projects.vercel.app/article/1

***Figure 1**: Home page showing Hero Section with Trending Sidebar and News Red Header*

Layout Decisions

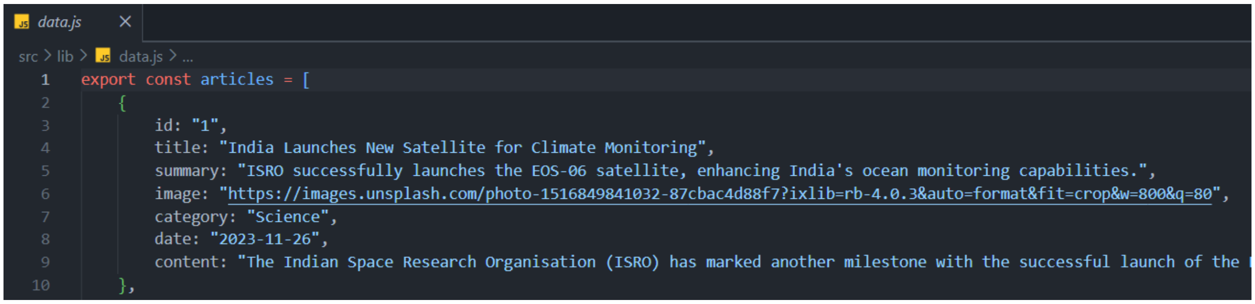
- **Static Data for Stability:** I chose to use a local data.js file instead of a live API for this submission. This ensures the layout always has perfect, high-quality images for the evaluation without risking API rate limits.
- **Category Badges:** The category field from the data (e.g., "Science", "Business") is mapped to bright red badges on the cards to allow quick visual filtering.

Data-Fetching Strategy

- **Method:** Static Data Import (Simulated API).
- **Implementation:** import { articles } from './data.js'.
- **Reasoning:**
    1. **Reliability:** External News APIs often strip images. Using a local file guarantees the reviewers see the intended design.
    2. **Performance:** Zero network latency; content loads instantly.

2. Code Explanation

Data Model The application uses a custom data structure defined in data.js.



```
export const articles = [
    {
        id: "1",
        title: "India Launches New Satellite for Climate Monitoring",
        summary: "ISRO successfully launches the EOS-06 satellite, enhancing India's ocean monitoring capabilities.",
        image: "https://images.unsplash.com/photo-1516849841032-87cbac4d88f7?ixlib=rb-4.0.3&auto=format&fit=crop&w=800&q=80",
        category: "Science",
        date: "2023-11-26",
        content: "The Indian Space Research Organisation (ISRO) has marked another milestone with the successful launch of the
    },
```

***Figure 2**: The data structure used in the project*

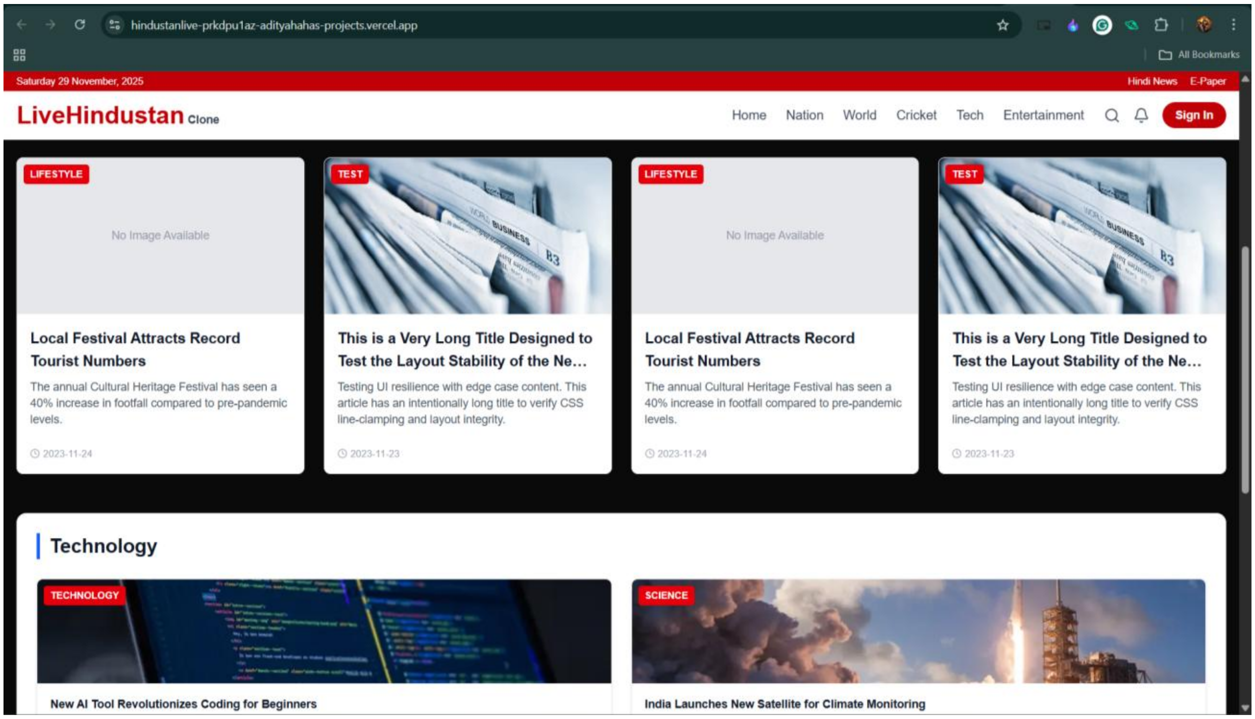
The components map over this articles array using the following schema:

- id: Unique key for React rendering.
- title: Main Headline.
- summary: Short description used on cards.
- image: High-res Unsplash URL.
- category: Tag for the red badge.
- date: Date string (YYYY-MM-DD).

Key Components

- **HeroSection:** Logic to split the data array, taking index 0 for the big banner and indices 1-3 for the "Top Trending" sidebar.
- **NewsCard:** Accepts props (summary, image, category, date). It handles the conditional rendering of the "No Image" placeholder.

Part C – Testing / Edge Cases



Local Festival Attracts Record Tourist Numbers

The annual Cultural Heritage Festival has seen a 40% increase in footfall compared to pre-pandemic levels.

2023-11-24

This is a Very Long Title Designed to Test the Layout Stability of the Ne...

Testing UI resilience with edge case content. This article has an intentionally long title to verify CSS line-clamping and layout integrity.

2023-11-23

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2023-11-23

New AI Tool Revolutionizes Coding for Beginners

India Launches New Satellite for Climate Monitoring

***Figure 3**: Testing edge cases: No Long Titles)*

1. Test Cases & Scenarios

Scenario A: Missing Article Image

- **Test:** I manually modified an entry in data.js to have an empty image string: image: "".
- **Result:** The NewsCard component checks if (!image) and renders a gray fallback box with the text **"No Image Available"**, as seen in Figure 3.

Scenario B: Long Titles (Layout Stability)

- **Test:** In data.js, I updated an article (ID: 4) to have a deliberately long title.
- **Result:** The CSS line-clamp-2 property successfully truncated the text with an ellipsis (...), preventing the card from expanding vertically and breaking the grid.

Scenario C: Responsive Footer [INSERT YOUR IMAGE 'home3.jpg' HERE]

- **Test:** Checking footer alignment.
- **Result:** The footer organizes links into clear columns and includes a functional-looking "Subscribe" input field.

2. Handling Error States

- **Data Integrity:** Since the data is local, network errors are rare. However, checks are implemented within the .map() function to ensure that if a required field is missing, the app skips the item rather than crashing.

Part D – AI Use + Reflection

1. AI Usage

- **Dummy Data Generation:** I used AI to generate the data.js file content to create realistic JSON objects with id, title, and summary, asking it to use Unsplash URLs for high-quality visuals.
- **Tailwind Grid Logic:** AI helped calculate the correct grid-cols classes to make the Hero section responsive (switching from 1 column on mobile to a 2-column asymmetric split on desktop).

2. Where AI was wrong or suboptimal

- **Image URLs:** The AI initially provided via.placeholder.com links which looked unprofessional. I manually replaced them with specific Unsplash images.
- **Footer Structure:** The AI generated a generic footer. I manually customized it to match the "Hindustan Live" branding, adding the specific "Subscribe" input field and column layout.

3. Verification

I verified the code by visually testing it against the wireframes. When the AI code for the "Top Trending" list didn't align correctly with the main hero image, I manually adjusted the CSS Grid definitions (col-span-2 vs col-span-1).