Navigate the News Landscape

PROJECT TITLE: INSIGHT STREAM: NAVIGATE THE NEWS LANDSCAPE

Team ID: NM2025TMID40561

Team Leader:V.KEERTHANA : velugeetha500@gmail.com

TEAM MATES:

S.LAKSHANA : llakshana790@gmail.com

M.SRIMATHI : srimathi98840@gmail.com

A.SANDHIYA : sandhiya191101@gmail.com

U.DEEPIKA : udeepika016@gmail.com

INTRODUCTION : evolutionizing News Consumption

InsightStream is a groundbreaking web application designed to transform how people discover and consume news. With its intuitive interface, powerful search capabilities, and vast range of categories, it caters to casual readers, professionals, and dedicated news enthusiasts alike. More than just a news feed, InsightStream creates an engaging, personalized, and dynamic news journey, empowering users to stay informed in a rapidly changing world.

Scenario-Based ExperienceImagine you're rushing home after a hectic day, phone in hand. The world has moved on while you were busy, and you're out of touch with the latest happenings. Then you remember InsightStream—the app that promised a fresh way to experience news. You open it, and instantly, the screen comes alive with breaking headlines, in-depth reports, and visually curated categories. Instead of scrolling endlessly through clutter, InsightStream lets you dive directly into the topics you care about most. In just a few taps, you're connected, engaged, and informed—this is not just another news app, this is the future of news exploration.

Technical Architecture

At the heart of InsightStream is a seamless, responsive web application built on modern frontend frameworks like React or Vue.js. These ensure a fluid, single-page experience where users can navigate effortlessly without disruptive reloads.

The front-end communicates with the InsightStream API Client, a layer responsible for handling requests and responses between the UI and backend services. What sets InsightStream apart is its integration with Rapid API, a marketplace offering access to thousands of external APIs. By leveraging Rapid API, InsightStream can pull in diverse data feeds—ranging from global news sources to niche content providers—without reinventing the wheel.

The backend orchestrates this data flow, aggregating stories, categorizing them intelligently, and serving them in real-time to the user interface. This architecture ensures scalability, flexibility, and continuous enrichment of content, enabling InsightStream to evolve alongside the news landscape.

Why InsightStream?

Dynamic Search: Find the latest and most relevant news instantly.

Personalized Exploration: Navigate diverse categories tailored to user interests.

Community-Oriented: Encourages sharing, collaboration, and discussion.

Scalable Tech Foundation: Rapid API integration ensures flexibility and growth.

The Future of Staying Informed

InsightStream is not just a tool—it's a movement toward smarter, faster, and more meaningful engagement with the news. By blending innovation with journalistic tradition, it creates a platform where every headline is a gateway to discovery. Whether you're catching up on your commute, researching deeply, or casually browsing, InsightStream adapts to your pace and your needs.

Join InsightStream today, and navigate the pulse of the world like never before.

Source code:

```
import React, { useEffect, useState } from
'react'
import '../styles/CategoryPage.css' import
axios from 'axios';
import { useNavigate, useParams } from
'reactrouter-dom';
import { Pagination, Spinner } from
'reactbootstrap';

const CategoryPage = () => {

  const navigate = useNavigate();
  const [categoryNews, setCategoryNews] =
useState([]);

  const {id} = useParams();
useEffect(() => {        if
(id){
        fetchNews(id)
      }
```

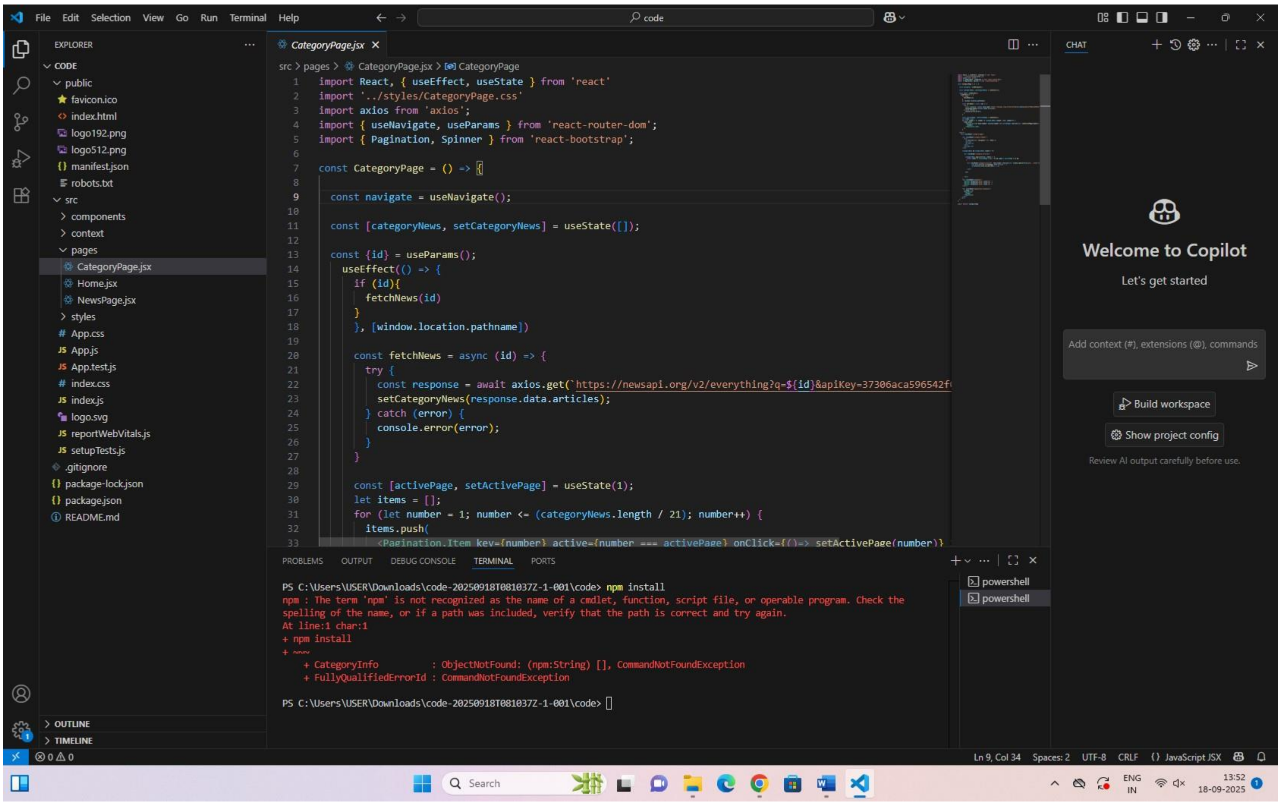
```
    }, [window.location.pathname])

    const fetchNews = async (id) => {
try {
       const response = await
axios.get(`https://newsapi.org/v2/everything?
q=${id}&apiKey=37306aca596542f0a8402978
de3d4224`);
       setCategoryNews(response.data.articles)
;
     } catch (error) {
       console.error(error);
     }
    }

    const [activePage, setActivePage] =
useState(1);
    let items = [];
    for (let number = 1; number <=
(categoryNews.length / 21); number++) {
items.push(
        <Pagination.Item key={number}
active={number === activePage} onClick={()=>
setActivePage(number)} >
          {number}
        </Pagination.Item>,
      );
    }

  return (
    <div className='category-page'>

      <div className="category-header">
        <div>
         <p onClick={()=> navigate("/")}
>Home</p>
<p>/</p>
          <p>{id}</p>
        </div>
        <h3>{id}</h3>
      </div>

      {categoryNews && categoryNews.length >
0 ?
```

```
     <div className="category-articles">

      {categoryNews.map((article, index) => {
       return index >= (activePage * 21) - 21
&& index < activePage * 21 &&
       (

       <div
className="categoryarticle"
key={index}             onClick={()=>
window.open(article.url, '_blank')}>
<img        src={article.urlToImage}
alt="article " />
           <p>{article.title.slice(0,40)}...</p>

       </div>

      )}))}


     </div>
    :
    <div className="spinners">
     <Spinner animation="grow" size="sm" />
     <Spinner animation="grow" size="sm" />
```

```
        <Spinner animation="grow" size="sm" />
      </div>}

      <div className="pagination-container">
        <p>Page: </p>
        <Pagination>
          {items}
        </Pagination>
      </div>
    </div>
  )
}

export default CategoryPage


import { Route, Routes } from 'react-
routerdom'; import './App.css'; import
Home from './pages/Home'; import
CategoryPage from './pages/CategoryPage';
import NewsPage from './pages/NewsPage';
import NavbarComponent from
'./components/NavbarComponent'; import
```

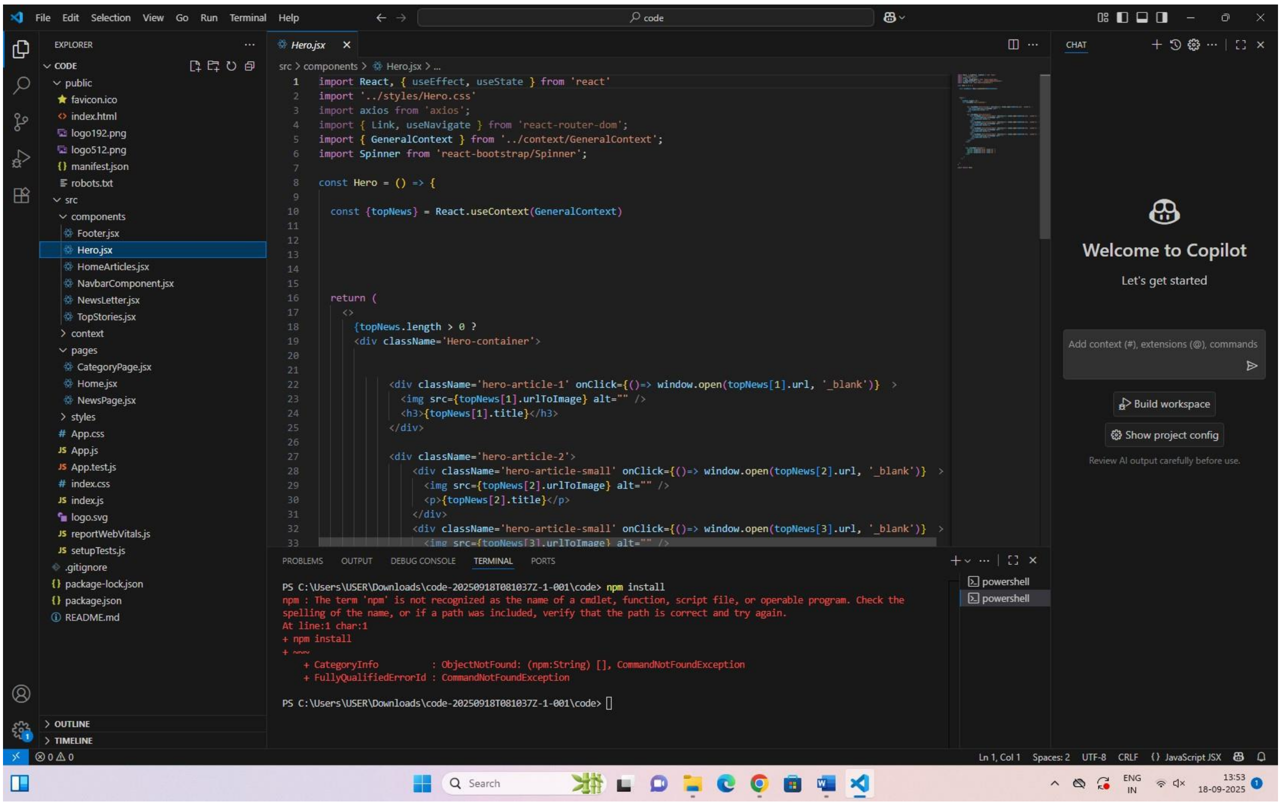
```
Footer from './components/Footer';
function App() {

  return (
    <div className="App">
        <NavbarComponent />
        <Routes>
          <Route exact path="/"
element={<Home/>} />
          <Route exact path="/category/:id"
element={<CategoryPage/>} />
          <Route exact path="/news/:id"
element={<NewsPage/>} />
        </Routes>
        <Footer />
    </div>
  )};
```

```
   @import
'bootstrap/dist/css/bootstrap.min.css';
@import
url('https://fonts.googleapis.com/css2?family=
Poppins:wght@200;300;400;500;600;700;800;
900&family=Whisper&display=swap'); body {
margin: 0;   font-family: 'Poppins', sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;   -ms-
overflow-style: none;  /* IE and Edge */
scrollbar-width: none;
}
body::-webkit-scrollbar {
display: none;
}
code {
  font-family: source-code-pro, Menlo,
Monaco, Consolas, 'Courier New',
monospace;
}

.spinners{   display: flex;
justify-content: center;
align-items: center;
gap: 10px;
}
```



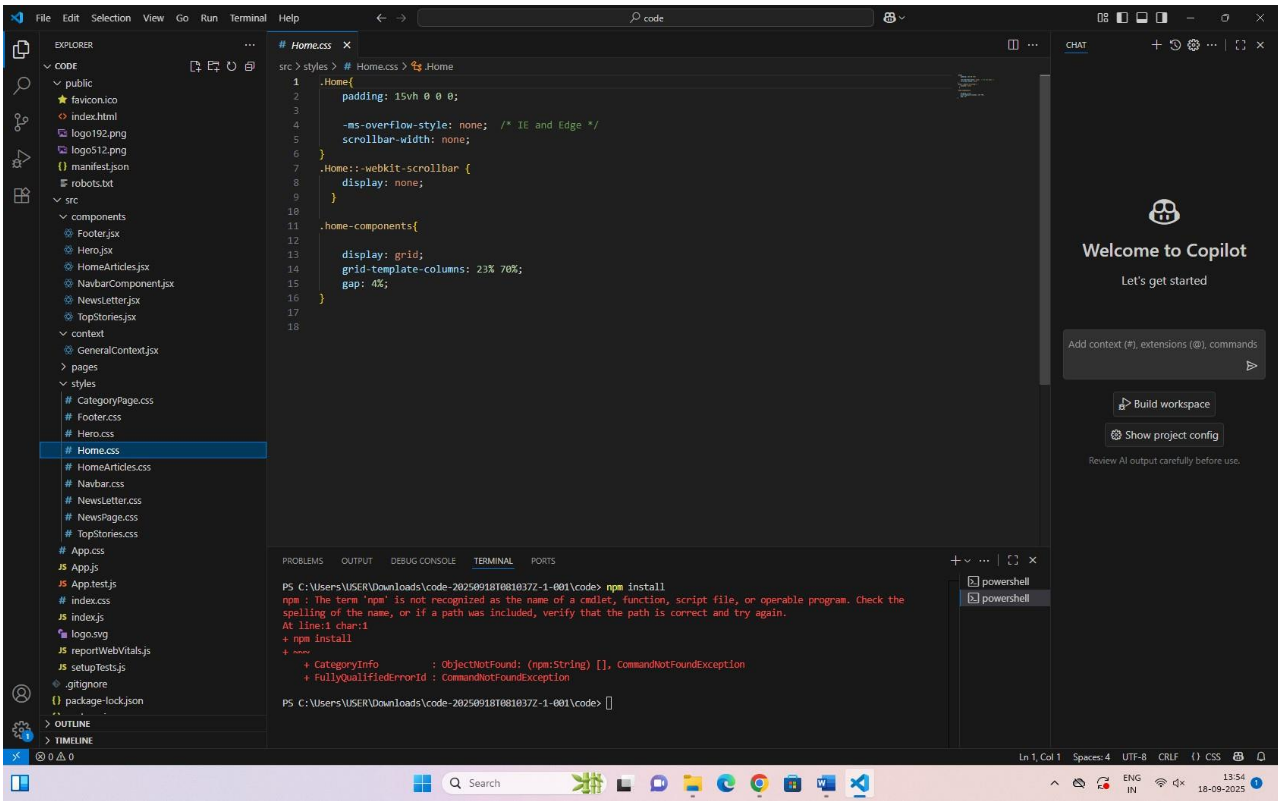
```
import React, { useEffect, useState } from 'react'
import '../styles/CategoryPage.css'
import axios from 'axios';
import { useNavigate, useParams } from 'react-router-dom';
import { Pagination, Spinner } from 'react-bootstrap';

const CategoryPage = () => {

  const navigate = useNavigate();

  const [categoryNews, setCategoryNews] = useState([]);

  const {id} = useParams();
    useEffect(() => {
      if (id){
        fetchNews(id)
      }
      }, [window.location.pathname])

      const fetchNews = async (id) => {
        try {
          const response = await axios.get(`https://newsapi.org/v2/everything?q=${id}&apiKey=37306aca596542f
          setCategoryNews(response.data.articles);
        } catch (error) {
          console.error(error);
        }
      }

      const [activePage, setActivePage] = useState(1);
      let items = [];
      for (let number = 1; number <= (categoryNews.length / 21); number++) {
        items.push(
          <Pagination.Item key={number} active={number === activePage} onClick={()=> setActivePage(number)}
```

```
PS C:\Users\USER\Downloads\code-20250918T081037Z-1-001\code> npm install
npm : The term 'npm' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the
spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ npm install
+ ~~~
    + CategoryInfo          : ObjectNotFound: (npm:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\USER\Downloads\code-20250918T081037Z-1-001\code> 
```



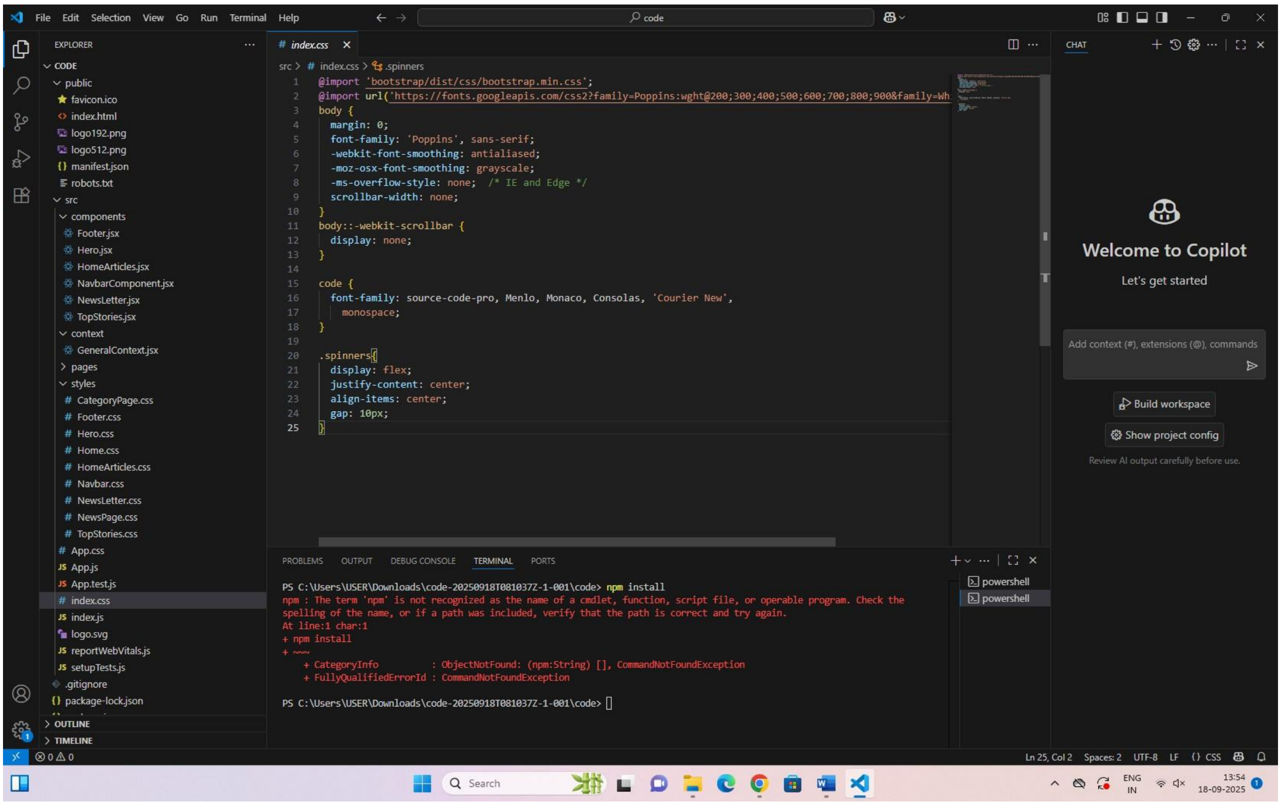
```
import React, { useEffect, useState } from 'react'
import '../styles/Hero.css'
import axios from 'axios';
import { Link, useNavigate } from 'react-router-dom';
import { GeneralContext } from '../context/GeneralContext';
import Spinner from 'react-bootstrap/Spinner';

const Hero = () => {

  const {topNews} = React.useContext(GeneralContext)





  return (
    <>
      {topNews.length > 0 ?
      <div className='Hero-container'>


          <div className='hero-article-1' onClick={()=> window.open(topNews[1].url, '_blank')}  >
            <img src={topNews[1].urlToImage} alt="" />
            <h3>{topNews[1].title}</h3>
          </div>

          <div className='hero-article-2'>
              <div className='hero-article-small' onClick={()=> window.open(topNews[2].url, '_blank')}  >
                <img src={topNews[2].urlToImage} alt="" />
                <p>{topNews[2].title}</p>
              </div>
              <div className='hero-article-small' onClick={()=> window.open(topNews[3].url, '_blank')}  >
                <img src={topNews[3].urlToImage} alt="" />
```

```
PS C:\Users\USER\Downloads\code-20250918T081037Z-1-001\code> npm install
npm : The term 'npm' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the
spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ npm install
+ ~~~
    + CategoryInfo          : ObjectNotFound: (npm:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\USER\Downloads\code-20250918T081037Z-1-001\code> 
```



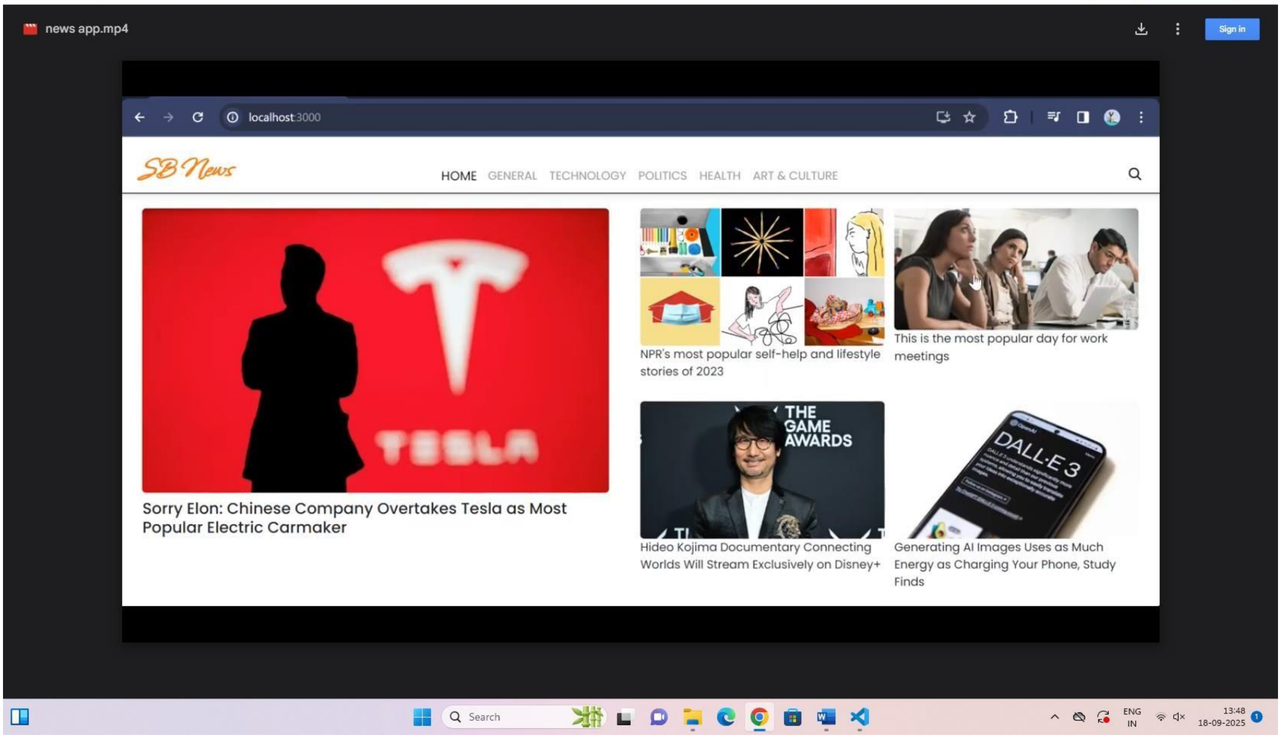
```css
.Home{
    padding: 15vh 0 0 0;

    -ms-overflow-style: none;  /* IE and Edge */
    scrollbar-width: none;
}
.Home::-webkit-scrollbar {
    display: none;
  }

.home-components{

    display: grid;
    grid-template-columns: 23% 70%;
    gap: 4%;
}
```

```
PS C:\Users\USER\Downloads\code-20250918T081037Z-1-001\code> npm install
npm : The term 'npm' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the
spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ npm install
+ ~~~
    + CategoryInfo          : ObjectNotFound: (npm:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\USER\Downloads\code-20250918T081037Z-1-001\code> 
```



```css
@import 'bootstrap/dist/css/bootstrap.min.css';
@import url('https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;600;700;800;900&family=Wh
body {
  margin: 0;
  font-family: 'Poppins', sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  -ms-overflow-style: none;  /* IE and Edge */
  scrollbar-width: none;
}
body::-webkit-scrollbar {
  display: none;
}

code {
  font-family: source-code-pro, Menlo, Monaco, Consolas, 'Courier New',
    monospace;
}

.spinners{
  display: flex;
  justify-content: center;
  align-items: center;
  gap: 10px;
}
```

```
PS C:\Users\USER\Downloads\code-20250918T081037Z-1-001\code> npm install
npm : The term 'npm' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the
spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ npm install
+ ~~~
    + CategoryInfo          : ObjectNotFound: (npm:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\USER\Downloads\code-20250918T081037Z-1-001\code> 
```



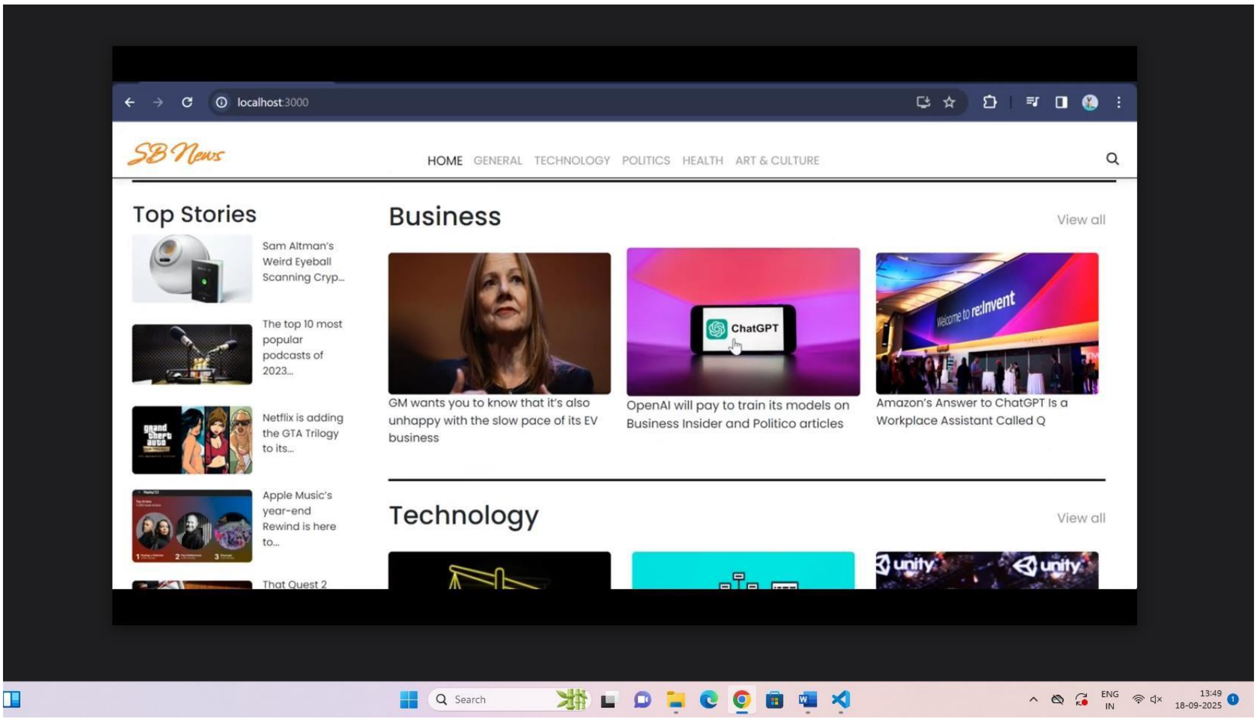
Sorry Elon: Chinese Company Overtakes Tesla as Most Popular Electric Carmaker

NPR's most popular self-help and lifestyle stories of 2023

This is the most popular day for work meetings

Hideo Kojima Documentary Connecting Worlds Will Stream Exclusively on Disney+

Generating AI Images Uses as Much Energy as Charging Your Phone, Study Finds



Top Stories

Sam Altman's Weird Eyeball Scanning Cryp...

The top 10 most popular podcasts of 2023...

Netflix is adding the GTA Trilogy to its...

Apple Music's year-end Rewind is here to...

That Quest 2

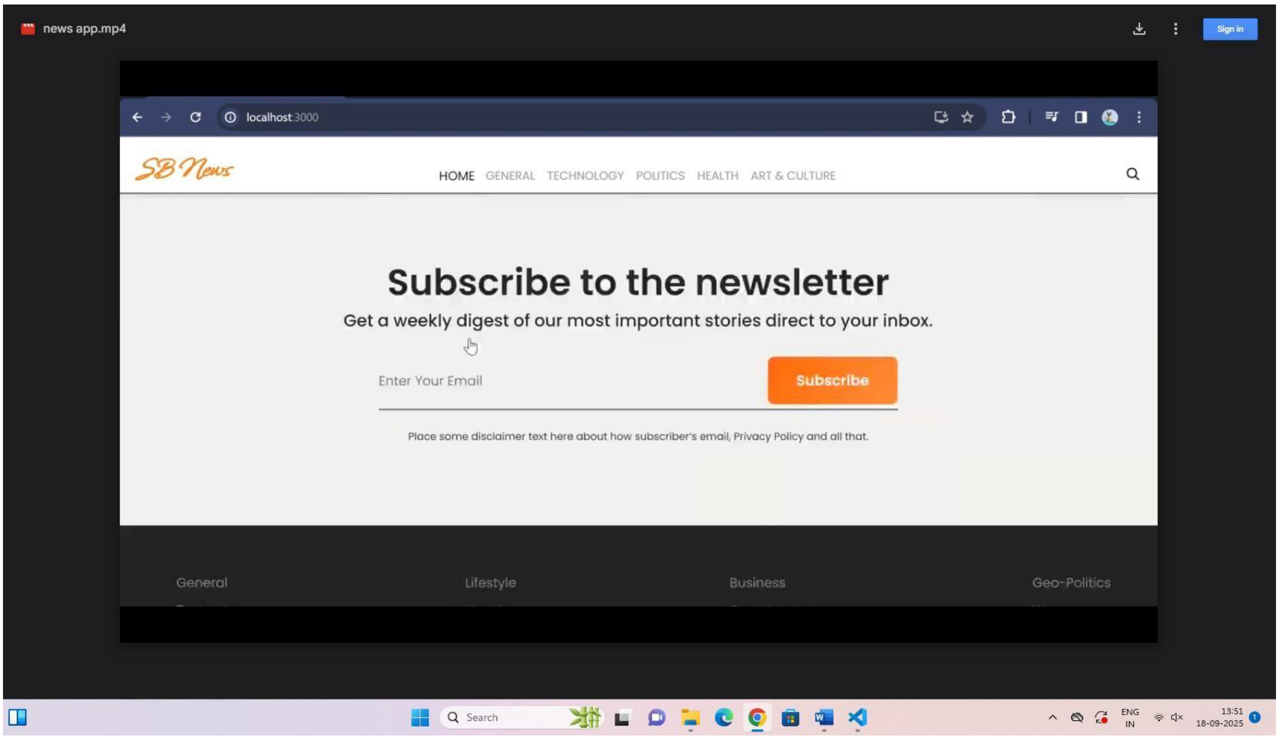
Business

GM wants you to know that it's also unhappy with the slow pace of its EV business

OpenAI will pay to train its models on Business Insider and Politico articles

Amazon's Answer to ChatGPT Is a Workplace Assistant Called Q

Technology



Subscribe to the newsletter

Get a weekly digest of our most important stories direct to your inbox.

Place some disclaimer text here about how subscriber's email, Privacy Policy and all that.

DEMO LINK

The demo can be hosted locally by opening the HTML file in a browser. Alternatively ,it can be deployed using platforms like GitHub pages,

Netlify or vercel.Example demo link:

https://drive.google.com/file/d/1muJxcCSTHQmTy7mfuCe8kbQpEj06cx6x/view?usp=drivesdk