

FRONT-END UI/UX MINI PROJECT

1. Local News Portal

Submitted By:

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Course - UI/UX Design Fundamentals

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Date of Submission - 13/08/2025

2. Abstract

The *Local News Portal Template* is a responsive, multi-page news aggregator website designed to provide timely and organized updates to a local community audience. The portal consists of five distinct sections — **Home, Sports, Finance, Contact, and About Us** — each focusing on a specific category or functionality. Built using **HTML5, Tailwind CSS, and vanilla JavaScript**, the website implements mobile-first design principles, accessibility features, and interactive components without relying on external frameworks for JavaScript functionality.

Key highlights include an **animated breaking news ticker**, **CSS-only category tabs**, **responsive iframes for embedded media**, **priority+ navigation pattern**, and components like weather widgets and event tables. This project demonstrates the integration of semantic HTML, responsive CSS, and lightweight JavaScript to produce a user-friendly, accessible, and visually engaging platform.

3. Objectives

- Build a **multi-page, category-oriented news portal** with clear navigation and consistent branding.
- Design **responsive layouts** adaptable to different devices and screen sizes.

- Apply **CSS animations** for visual engagement without relying on heavy JavaScript libraries.
- Implement **accessibility best practices**, such as semantic HTML and reduced motion alternatives.
- Provide reusable UI patterns (cards, modals, banners) that can scale for future features

4. Scope of the Project

The scope of the *Local News Portal Template* encompasses the design and development of a multi-page, responsive news website tailored for local community updates. It includes the creation of five interconnected pages — Home, Sports, Finance, Contact, and About Us — each serving a distinct purpose while maintaining a cohesive visual and structural identity. The project covers implementing category-specific layouts, interactive news cards with modal previews, a breaking news ticker, weather and event sections, and a contact form with animated confirmation feedback. The scope also involves ensuring the website is fully functional across various devices and screen sizes, adhering to mobile-first principles, and applying accessibility best practices to make the content usable for a wide audience. While the current version is static and serves as a design template, the project’s structure allows for easy integration of dynamic data sources, APIs, or CMS platforms in future iterations.

5. Tools & Technologies Used

Tool/Technology	Purpose
HTML5	Structuring the content and semantic layout of the website.
Tailwind CSS	Providing utility-first responsive styling and consistent design across pages.
Google Fonts (Playfair Display, Roboto)	Enhancing readability and aesthetic appeal with distinct heading and body fonts.
JavaScript (Vanilla)	Implementing interactive components such as modals, tab switching, and form feedback.
Mobile-First Design	Ensuring optimal performance and layout on mobile devices before scaling to larger screens.
CSS Grid & Flexbox	Creating responsive and flexible layouts for news cards, navigation, and content sections.
Static HTML Hosting	Preparing the project for deployment on platforms like GitHub Pages or Netlify.
VS Code	Writing and editing the project code.

Chrome DevTools	Testing, debugging, and ensuring responsive design across devices
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6. HTML Structure Overview

The HTML files are organized into semantic sections to ensure clarity, maintainability, and accessibility. The main structure across all pages includes:

1. **<header> – Navigation Bar**

Contains the site title “*The Daily Lens*” and a navigation menu linking to the different sections of the site (Home, Sports, Finance, Contact, About Us). Uses Tailwind CSS for responsive styling, with a horizontal menu on desktops and a menu icon on smaller screens.

2. **Main Content Section (<main> or <div> container)**

Varies depending on the page:

- **Home, Sports, and Finance Pages** – Feature a grid of news cards, each containing a category tag, image, and headline. Clicking a card triggers a modal with more details.
- **Contact Page** – Contains a contact form with input fields for name, email, and message, along with a submission button. Displays a success animation on submission.
- **About Us Page** – Includes an introduction to the portal, a mission statement, and a responsive team section with profile images and role descriptions.

3. **Interactive Elements**

JavaScript-powered features include:

- Modals for detailed news previews (Home, Sports, Finance).
- Tab/category switching (where applicable).
- Success popup animation on contact form submission.

4. **<footer> – Footer Section**

Displays copyright information in a simple, centered format. Present on every page for consistency.

The structure uses semantic tags like `<header>`, `<nav>`, `<section>`, and `<footer>` where appropriate, with responsive layouts achieved using Tailwind CSS utility classes and occasional custom CSS.

7. CSS Styling Strategy

The news portal uses a **clean, modern color palette** with category-specific accents (green for Finance, blue for Contact, neutral grays for general content) to create a professional yet approachable look. The styling prioritizes **visual hierarchy, readability, and responsiveness**.

Key Styling Approaches:

1. **Layout Management** – Primarily uses **Tailwind CSS grid and flexbox utility classes** to organize content into responsive columns. News cards adapt their layout depending on screen size, ensuring optimal presentation on both mobile and desktop.
2. **Typography** – Combines Google Fonts **Playfair Display** for headings (serif, elegant, high contrast) and **Roboto** for body text (sans-serif, clean, readable). Heading styles are bold and large to draw attention, while body text remains clear and consistent.
3. **Color Scheme** – Uses **gradient backgrounds** for thematic pages (e.g., green gradient for Finance, blue gradient for Contact), paired with high-contrast text overlays for legibility. Category tags use bold colors that match their theme.
4. **Component Styling** –
 - **News Cards:** Rounded corners, image zoom-on-hover, and gradient overlays for text readability.
 - **Category Tags:** Bold uppercase text, pill-shaped background for quick recognition.
 - **Modals:** Smooth scale animations, backdrop overlays, and scrollable content areas.
 - **Contact Form Success Animation:** SVG checkmark animation triggered on form submission.
5. **Responsive Design** – Tailwind's responsive classes (md:, lg:) handle layout shifts, collapsing navigation into a hamburger menu on small screens and switching multi-column grids to single-column stacking on mobile devices.
6. **User Interaction** – Hover effects on buttons, cards, and navigation links provide clear visual feedback. Transitions are smooth, avoiding sudden visual changes to improve the browsing experience.

8. Key Features

Feature	Description
Responsive Design	Adapts seamlessly to all screen sizes using CSS Grid and Flexbox.
Category-Specific Pages	Separate HTML files for Sports, Finance, Contact, and About Us, each with its own theme and styling.
Animated Breaking News Banner	CSS animations create a scrolling ticker effect for urgent headlines.
News Cards with Hover Effects	Interactive cards zoom images and lift content on hover for a dynamic feel.
Modal News Preview	Clicking a news card opens a modal with the full title, image, and description without leaving the page.
Contact Form with Success Animation	Includes an SVG checkmark animation triggered on submission for user feedback.
Theme-Specific Gradients	Unique gradient backgrounds for each section to visually distinguish categories.
Mobile-Friendly Navigation	Collapsible hamburger menu for small screens, ensuring easy access to all pages.
Google Fonts Integration	Playfair Display for headings and Roboto for body text, enhancing readability and style.
High Contrast and Accessibility Considerations	Ensures clear text visibility with proper heading hierarchy and responsive font sizes.

9. Challenges Faced & Solutions

Challenge	Solution
Ensuring responsiveness across different devices	Used Tailwind CSS responsive utilities and grid layouts to make the site adapt to mobile, tablet, and desktop screens.
Implementing Modal Pop-Ups for News Previews	Added custom JavaScript to dynamically fetch and display the selected news card's title, image, and description in a modal, with click-to-close functionality.
Maintaining Consistent Styling Across Multiple Pages	Created a common navigation bar and footer layout, reused Tailwind CSS utility classes, and applied consistent typography with Google Fonts.
Animating the Breaking News Ticker Smoothly	Used CSS keyframe animations with controlled speed and loop settings to create a readable, continuously scrolling ticker.
Balancing Aesthetics with Accessibility	Applied high-contrast colors, ensured text scalability with relative units, and maintained proper heading hierarchy for screen reader compatibility.

10.Outcome

The *Local News Portal* project successfully delivers a responsive, multi-page news platform designed to provide local community updates in an engaging and accessible format. Each section, from the animated breaking news banner to the category-specific pages, ensures that information is presented clearly and attractively. The use of Tailwind CSS streamlined styling while maintaining visual consistency across pages, and interactive elements such as hover effects, modal pop-ups, and the animated contact form enhanced user engagement. The final outcome is a well-structured, mobile-friendly, and aesthetically pleasing template that can be easily adapted for real-world news publishing needs.

11.Future Enhancements

To improve functionality and user experience, the following enhancements can be considered for future versions of the portal:

- **Backend Integration** – Connect the portal to a CMS or database to manage news content dynamically instead of relying on static HTML.
- **User Authentication** – Implement login and registration features to allow journalists and editors to submit or edit articles securely.
- **Search Functionality** – Add a search bar with filtering by category, date, or keyword to improve content discoverability.
- **Live News Feeds** – Integrate real-time API feeds for breaking news, weather, and market updates.
- **Commenting System** – Allow readers to comment on articles and engage in discussions while moderating content for safety.
- **Theme Customization** – Offer light/dark mode toggles and adjustable font sizes for better user accessibility.
- **Multimedia Support** – Include video news segments, image galleries, and audio clips to diversify content delivery.

12. Sample Code

Below is a snippet of the HTML structure for the index page.

```
<!DOCTYPE html>
```

```
<html lang="en">

<head>

  <meta charset="UTF-8" />

  <meta name="viewport" content="width=device-width, initial-scale=1.0" />

  <title>The Daily Lens</title>

  <script src="https://cdn.tailwindcss.com"></script>

  <link rel="preconnect" href="https://fonts.googleapis.com" />

  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin />

  <link

href="https://fonts.googleapis.com/css2?family=Playfair+Display:wght@700&family=Roboto:wght@400&display=swap"

    rel="stylesheet"

  />

  <style>

    /* Custom styles for the abstract layout */

    body {

      font-family: 'Roboto', sans-serif;

      background-color: #f3f4f6; /* bg-gray-100 */

      background-image: radial-gradient(at top, #dbeafe, #f3f4f6); /* Blue gradient for Home theme */

    }

    .news-card {

      position: relative;

      overflow: hidden;

      border-radius: 0.5rem;

      transition: box-shadow 0.3s ease;
```

```
    min-height: 300px;
}
.news-card:hover {
    box-shadow: 0 10px 25px rgba(0, 0, 0, 0.2);
}
.news-card img {
    width: 100%;
    height: 100%;
    object-fit: cover;
    transition: transform 0.4s ease;
}
.news-card:hover img {
    transform: scale(1.05);
}
.news-card-content {
    position: absolute;
    bottom: 0;
    left: 0;
    right: 0;
    padding: 1.5rem;
    background: linear-gradient(to top, rgba(0, 0, 0, 0.95), rgba(0, 0, 0, 0));
    color: white;
    transition: transform 0.3s ease;
}
.news-card:hover .news-card-content {
    transform: translateY(-10px);
}
```



```
}  
  
.news-card-content h3 {  
  font-family: 'Playfair Display', serif;  
  font-size: 2rem;  
  font-weight: 700;  
  line-height: 1.2;  
  margin-bottom: 0.5rem;  
}  
  
.news-card-content p {  
  font-size: 0.9rem;  
  opacity: 0.8;  
  line-height: 1.4;  
}  
  
.category-tag {  
  position: absolute;  
  top: 1rem;  
  right: 1rem;  
  padding: 0.25rem 0.75rem;  
  border-radius: 9999px;  
  font-size: 0.75rem;  
  font-weight: bold;  
  color: white;  
  text-transform: uppercase;  
  z-index: 10;  
}  
  
.tag-politics {
```

```
background-color: #e74c3c;
}

.tag-sports {
background-color: #f9a826;
}

.tag-finance {
background-color: #2ecc71;
}


/* Modal Styles */
.modal {
position: fixed;
top: 0;
left: 0;
width: 100%;
height: 100%;
background-color: rgba(0, 0, 0, 0.8);
display: flex;
align-items: center;
justify-content: center;
z-index: 1000;
opacity: 0;
visibility: hidden;
transition: opacity 0.3s ease, visibility 0.3s ease;
}

.modal.active {
```

```
opacity: 1;
visibility: visible;
}
.modal-content {
background-color: white;
border-radius: 0.5rem;
width: 90%;
max-width: 600px;
max-height: 90vh;
display: flex;
flex-direction: column;
transform: scale(0.95);
transition: transform 0.3s ease;
position: relative;
}
.modal.active .modal-content {
transform: scale(1);
}
.modal-body img {
width: 100%;
max-height: 300px;
object-fit: cover;
border-top-left-radius: 0.5rem;
border-top-right-radius: 0.5rem;
}
.modal-text-content {
```

```
padding: 1.5rem;

overflow-y: auto; /* Allow scrolling for long text */
}

.modal-text-content h2 {

font-family: 'Playfair Display', serif;

font-size: 2rem;

margin-bottom: 1rem;

}

.close-button {

position: absolute;

top: 1rem;

right: 1rem;

background: none;

border: none;

font-size: 2rem;

color: #fff;

cursor: pointer;

z-index: 1001;

}

</style>

</head>

<body class="bg-gray-100">

<!-- Navbar -->

<nav class="bg-white shadow-md sticky top-0 z-50">

<div class="container mx-auto px-6 py-4 flex items-center justify-between">

<div>
```

```
<a
  href="Index.html"
  class="text-2xl font-bold text-gray-800"
  style="font-family: 'Playfair Display', serif"
  >The Daily Lens</a
>
</div>
<div
  class="hidden md:flex items-center space-x-4"
  id="nav-links"
>
  <a href="Index.html" class="text-blue-500 font-bold">Home</a>
  <a href="sports.html" class="text-gray-600 hover:text-blue-500">Sports</a>
  <a href="Finance.html" class="text-gray-600 hover:text-blue-500">Finance</a>
  <a href="Contact.html" class="text-gray-600 hover:text-blue-500">Contact</a>
  <a href="About_Us.html" class="text-gray-600 hover:text-blue-500">About Us</a>
</div>
<div class="md:hidden">
  <button
    id="menu-button"
    class="text-gray-600 hover:text-blue-500 focus:outline-none"
    aria-label="Toggle menu"
    aria-expanded="false"
  >
    <svg
      class="h-6 w-6"
```

```
    fill="none"

    stroke-linecap="round"

    stroke-linejoin="round"

    stroke-width="2"

    viewBox="0 0 24 24"

    stroke="currentColor"

  >

    <path d="M4 6h16M4 12h16m-7 6h7"></path>

  </svg>

</button>

</div>

</div>

</nav>

<!-- Main Content -->

<div class="container mx-auto px-6 py-8">

  <h2 class="text-3xl font-bold text-gray-800 mb-6">Top Stories</h2>

  <!-- Abstract Grid Layout -->

  <div class="grid grid-cols-1 md:grid-cols-4 auto-rows-[300px] gap-6">

    <a

      href="#"

      class="news-card md:col-span-2 md:row-span-2"

      data-title="PM Modi Flags-Off Bengaluru Metro Yellow Line"

      data-img="metro.jpg"
```

data-desc="In a major boost to urban infrastructure, Prime Minister Narendra Modi inaugurated the much-awaited Yellow Line of the Namma Metro in Bengaluru. The new line is expected to significantly ease traffic congestion in the city's tech corridor. During the event, the PM also flagged off new Vande Bharat trains, reinforcing the government's commitment to modernizing India's railway network."

>

<div class="category-tag tag-politics">Politics</div>

<div class="news-card-content">

<h3>PM Modi Flags-Off Bengaluru Metro Yellow Line</h3>

<p>PM Modi inaugurates the Yellow Line and flags off new Vande Bharat trains.</p>

</div>

<a

href="#"

class="news-card md:col-span-2 md:row-span-1"

data-title="Crypto Market Cap Hits New High of \$3.94 Trillion"

data-img="Crypto.jpg"

data-desc="The global cryptocurrency market cap has reached a staggering \$3.94 trillion, with major coins like Bitcoin and Ethereum seeing significant gains over the past quarter. This surge is largely driven by increased institutional investment and wider adoption of digital currencies in mainstream finance. However, regulators are watching closely, and the long-term stability of the market remains a topic of intense debate among financial analysts."

>

<div class="category-tag tag-finance">Finance</div>

<div class="news-card-content">

<h3>Crypto Market Cap Hits New High of \$3.94 Trillion</h3>

</div>

<a

href="#"

class="news-card md:col-span-1 md:row-span-2"

data-title="Man United's Landmark Signing Shakes Up Premier League"

data-img="ManUnited1.jpg"

data-desc="Manchester United has officially announced a landmark signing that is set to send shockwaves through the Premier League. The record-breaking deal brings one of the world's most sought-after talents to Old Trafford. We analyze the tactical implications, the financial details, and the fan reaction to this blockbuster transfer."

>

<div class="category-tag tag-sports">Sports</div>

<div class="news-card-content">

<h3 style="font-size: 1.6875rem; line-height: 1.2;">

Man United's Landmark Signing Shakes Up Premier League

</h3>

</div>

<a

href="#"

class="news-card md:col-span-1 md:row-span-1"

data-title="India vs England Test Series Recap"

data-img="cricket.jpg"

data-desc="The five-match test series between India and England was a rollercoaster of emotions, with both teams showcasing exceptional talent and resilience. From stunning centuries to game-changing bowling spells, the series had it all. We break down the key moments and standout performances."

>

<div class="category-tag tag-sports">Sports</div>

<div class="news-card-content">

<h3>India vs England Test Series Recap</h3>

</div>

<a

href="#"

class="news-card md:col-span-2 md:row-span-1"

data-title="Operation Sindoor: A High-Stakes Strategic Mission"

data-img="OPSindoor.jpg"

data-desc="Details have emerged about 'Operation Sindoor,' a high-stakes strategic mission with significant international implications. The covert operation, which involved multiple agencies, has been hailed as a major success in intelligence circles. While official comments are limited, sources indicate the mission was critical for national security."

>

<div class="category-tag tag-politics">Politics</div>

<div class="news-card-content">

<h3>Operation Sindoor: A High-Stakes Strategic Mission</h3>

</div>

</div>

</div>

<!-- Footer -->

<footer class="bg-white mt-8 py-4">

<div class="container mx-auto px-6 text-center text-gray-600">

© 2025 The Daily Lens. All rights reserved.

</div>

</footer>

<!-- News Preview Modal -->

<div id="news-modal" class="modal" role="dialog" aria-modal="true" aria-labelledby="modal-title" aria-describedby="modal-desc">

<div class="modal-content">

<button id="close-modal-button" class="close-button" aria-label="Close modal">×</button>

<div class="modal-body">

</div>

<div class="modal-text-content">

<h2 id="modal-title"></h2>

<p id="modal-desc" class="text-gray-700 leading-relaxed"></p>

</div>

</div>

</div>

<script>

```
document.addEventListener('DOMContentLoaded', () => {

  const newsCards = document.querySelectorAll('.news-card');

  const modal = document.getElementById('news-modal');

  const modalImg = document.getElementById('modal-img');

  const modalTitle = document.getElementById('modal-title');

  const modalDesc = document.getElementById('modal-desc');

  const closeModalButton = document.getElementById('close-modal-button');

  newsCards.forEach((card) => {

    card.addEventListener('click', (e) => {

      e.preventDefault();

      const title = card.dataset.title;

      const img = card.querySelector('img').src;

      const desc = card.dataset.desc;

      modalTitle.textContent = title;

      modalImg.src = img;

      modalDesc.textContent = desc;

      modal.classList.add('active');

      // Disable scrolling when modal is open

      document.body.style.overflow = 'hidden';

    });

  });

});
```

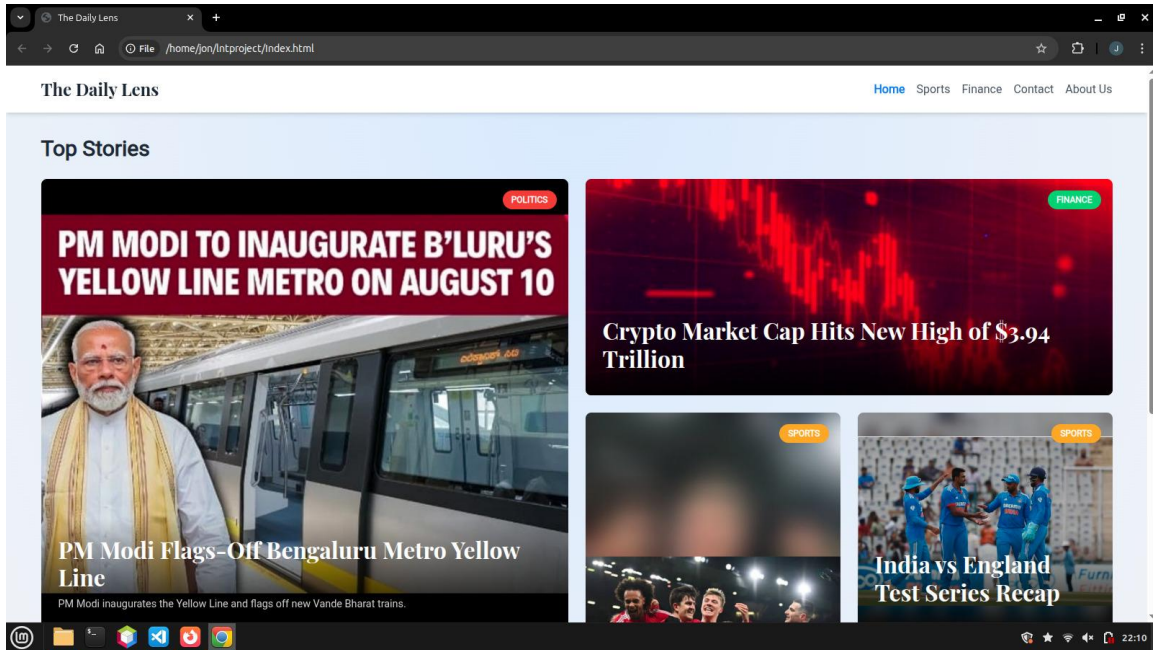
```
const closeModal = () => {  
  modal.classList.remove('active');  
  // Enable scrolling again  
  document.body.style.overflow = "";  
};  
  
closeModalButton.addEventListener('click', closeModal);  
  
modal.addEventListener('click', (e) => {  
  if (e.target === modal) {  
    closeModal();  
  }  
});  
  
// Mobile menu toggle  
const menuButton = document.getElementById('menu-button');  
const navLinks = document.getElementById('nav-links');  
  
menuButton.addEventListener('click', () => {  
  navLinks.classList.toggle('hidden');  
  
  // Update aria-expanded attribute for accessibility  
  const expanded = menuButton.getAttribute('aria-expanded') === 'true';  
  menuButton.setAttribute('aria-expanded', String(!expanded));  
});  
});
```

</script>

</body>

</html>

13. Screenshots of Final Output



The Daily Lens

Home Sports Finance Contact About Us

Top Stories

YELLOW LINE METRO ON AUGUST 10

PM Modi Flags-Off Bengaluru Metro Yellow Line

In a major boost to urban infrastructure, Prime Minister Narendra Modi inaugurated the much-awaited Yellow Line of the Namma Metro in Bengaluru. The new line is expected to significantly ease traffic congestion in the city's tech corridor. During the event, the PM also flagged off new Vande Bharat trains, reinforcing the government's commitment to modernizing India's railway network.

PM Modi inaugurates the Yellow Line and flags off new Vande Bharat trains

India vs England Test Series Recap

The Daily Lens

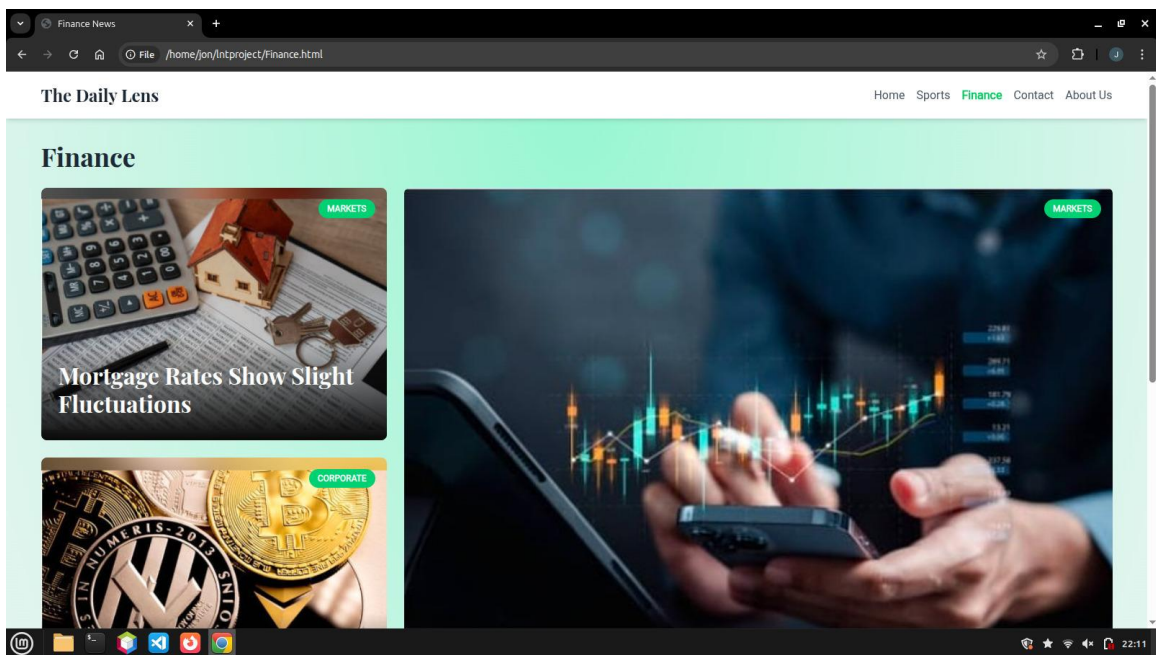
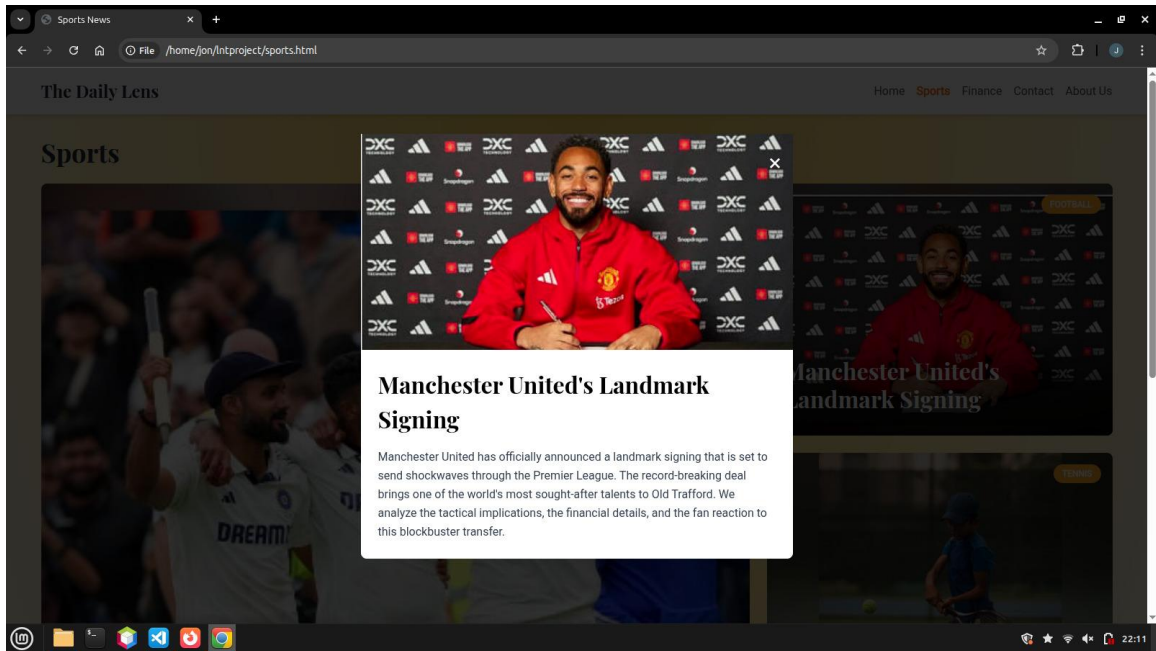
Home Sports Finance Contact About Us

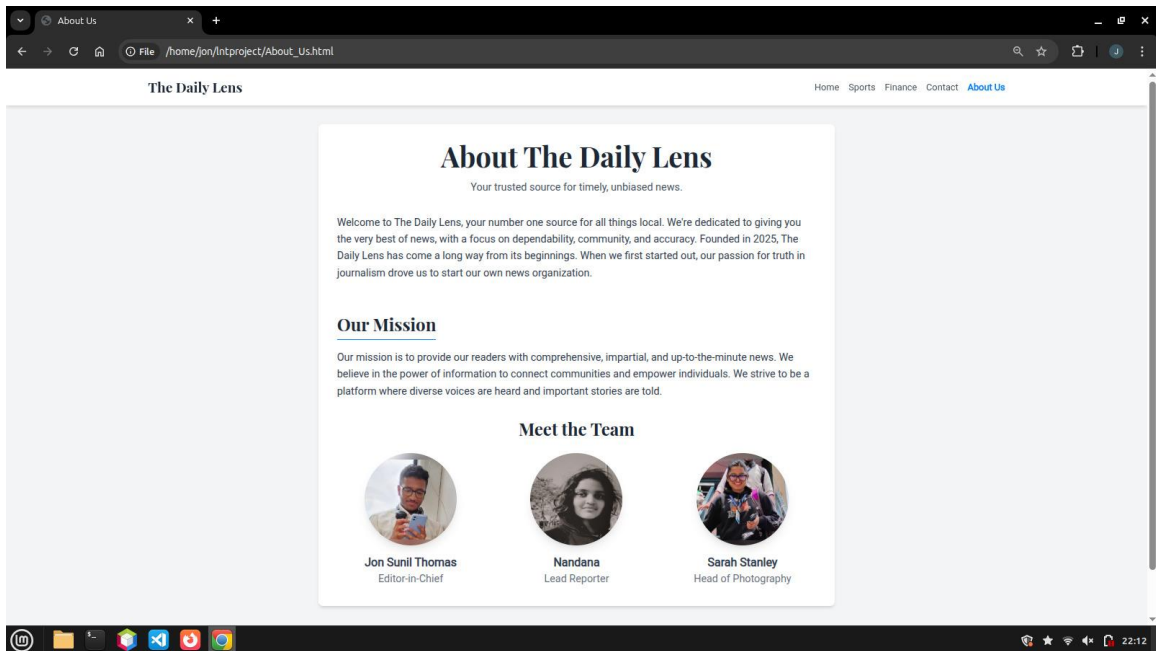
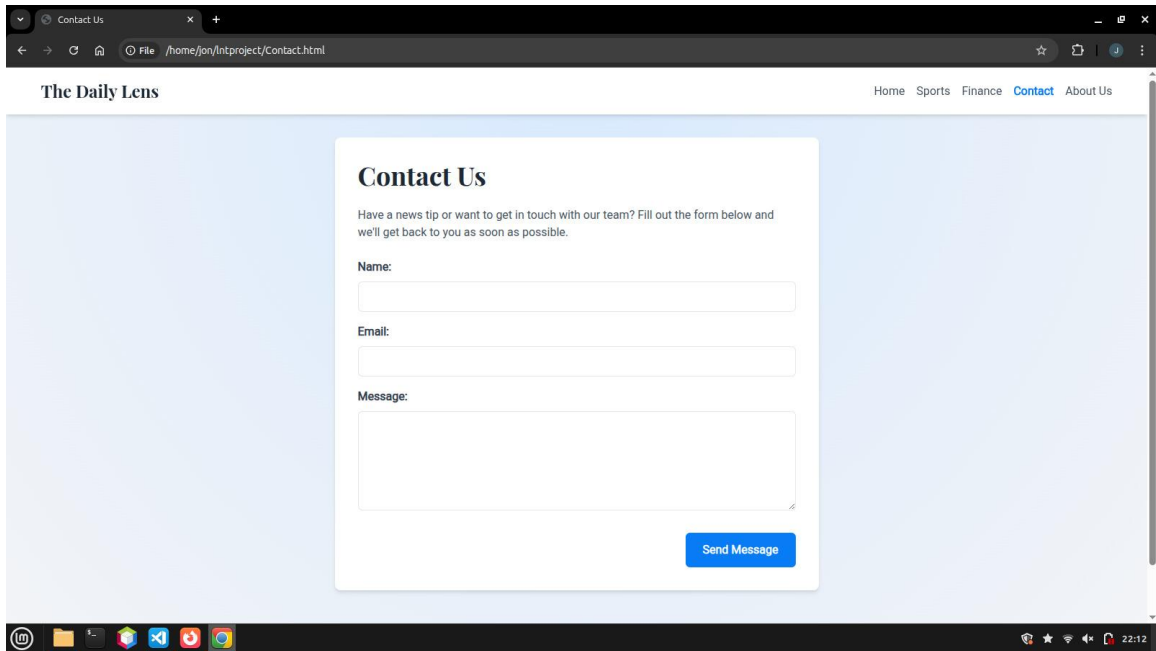
Sports

CRICKET

Manchester United's Landmark Signing

TENNIS





14. Conclusion

The Local News Portal project successfully delivers a clean, responsive, and user-friendly platform that keeps the community informed about important local events and stories. Through an intuitive layout, dynamic content presentation, and interactive features such as modals for detailed news previews, the portal enhances user engagement and accessibility across devices. Leveraging modern web technologies like Tailwind CSS and JavaScript, the project demonstrates effective design and functionality integration tailored for local news dissemination. This portal lays a solid foundation for future enhancements such as backend

integration, user authentication, and personalized content delivery, ultimately aiming to become a trusted source of timely and relevant information for its audience.

15. References

- L&T LMS: <https://learn.intedutech.com/Landing/MyCourse>
- W3Schools – CSS Grid Layout: https://www.w3schools.com/css/css_grid.asp
- W3Schools – HTML <progress> Tag: https://www.w3schools.com/tags/tag_progress.asp
- Google Fonts – Marcellus & Playfair Display: <https://fonts.google.com/>
- Chart.js Documentation – Interactive Charts for Web: <https://www.chartjs.org/docs/latest/>
- FreeCodeCamp – Responsive Web Design Principles: <https://www.freecodecamp.org/news/responsive-web-design/>
- CSS-Tricks – Styling HTML5 <progress> Elements: <https://css-tricks.com/html5-progress-element/>