

Music Festival Website

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Abstract

This project presents a comprehensive website for the Lollapalooza music festival, offering a digital hub for festival attendees, music fans, organizers, and press. The primary objective is to deliver all festival information—lineup, artist details, schedule, ticketing, and essential updates—through an interactive, responsive, and visually engaging web experience. The platform features a dark theme aesthetic, interactive artist modals, a real-time countdown timer, and seamless navigation between the home and schedule pages. The site is optimized for both desktop and mobile, ensuring accessibility for all users. Core technologies include HTML5, CSS3, and modern web development best practices, while development and debugging utilize tools like VS Code and Chrome DevTools. The final outcome is a user-centric, easily navigable site that enhances event planning and engagement for music lovers.

Objectives

- Design a visually appealing, user-friendly interface inspired by modern UI/UX principles.
- Develop a fully responsive layout adaptable to any device.
- Present artists and schedule information in an organized, interactive manner.
- Create a seamless navigation experience for users.

Scope of the Project

- Focused strictly on front-end design and implementation.
- No JavaScript or server-side integration (core features may use minimal JS for modals/timers).
- Designed for desktop, tablet, and mobile devices.
- Uses only open-source tools and pure code (no external libraries).

Tools & Technologies Used

Tool/Technology	Purpose
HTML5	Markup and content structure
CSS3	Styling and layout management
VS Code	Code editor
Chrome DevTools	Testing and debugging

HTML Structure Overview

- Used semantic tags: `<header>`, `<nav>`, `<main>`, `<section>`, `<footer>`.
- Structured into reusable sections: About, Projects (Lineup), Contact.
- Navigation menu implemented with `` and anchor links for smooth scrolling.

CSS Styling Strategy

- Used external CSS file (e.g., `assets/css/style.css`).
- Codebase organized with comments and logical sections.

- Techniques employed:
 - Flexbox and Grid for robust, adaptable layouts.
 - Media Queries for device responsiveness and accessibility.
 - CSS Variables for theme customization.
 - Hover effects and transitions.
 - Mobile-first design approach.

Key Features

Feature	Description
Responsive Design	Adapts seamlessly to all screen sizes
Smooth Navigation	Fixed top nav with anchor links
Project Cards	Flex-based layout with hover effects
Contact Form (non-functional)	Placeholder layout for inputs and button
Accessible Fonts & Colors	High contrast and readable typography

Challenges Faced & Solutions

Challenge	Solution
Overlapping elements on small screens	Used media queries to stack elements
Difficulty aligning items using float	Shifted to Flexbox and Grid
Typography scaling issue	Used relative units (em/rem) instead of px

Outcome

- Achieved a clean, consistent, and visually engaging front-end layout.
- All key components function as intended using just HTML and CSS.
- Learned about layout responsiveness and UI hierarchy in depth.

Future Enhancements

- Add JavaScript for interactivity (form validation, dynamic content).
- Integrate animations or transitions.
- Backend integration for form submission.
- Theme toggler (light/dark mode).

Sample Code

This section reflects important bits from all the codes.

index.html

```
~~~  
<div class="col-md-3 col-sm-6">  
  <div class="artist-card" data-bs-toggle="modal" data-bs-target="#artistModal" data-artist="1">  
    <div class="artist-image">  
        
    </div>  
    <div class="artist-info">  
      <h3>Artist Name</h3>  
      <p class="performance-time"><i class="fas fa-clock me-2"></i>Time & Date</p>  
    </div>  
  </div>  
</div>  
~~~
```

schedule.html

```
~~~  
<div class="schedule-item bg-dark border border-secondary p-3 mb-3">  
  <div class="d-flex justify-content-between align-items-center">  
    <div>  
      <h4 class="text-light mb-1">Artist Name</h4>  
      <p class="text-muted mb-0">Time Range</p>  
      <small class="text-muted">Genre</small>  
    </div>  
    <button class="btn btn-outline-primary btn-sm" data-bs-toggle="modal"  
          data-bs-target="#artistModal" data-artist="1">  
      <i class="fas fa-info-circle"></i>  
    </button>  
  </div>  
</div>  
~~~
```

main.js

~~~

```
var artistData = {
  1: {
    name: 'Slipknot',
    bio: 'Artist biography here...',
    date: 'Saturday, 8:00 PM',
    stage: 'Main Stage',
    genre: 'Genre here',
    image: 'assets/images/artists/artist-1.jpg'
  }
};
```

~~~

~~~

```
$('#artistModal').on('show.bs.modal', function (event) {
  var button = $(event.relatedTarget);
  var artistNumber = button.data('artist');
  var modal = $(this);
  var artist = artistData[artistNumber];
  modal.find('#modalArtistName').text(artist.name);
  // ... updates all modal content
});
```

~~~

~~~

```
function updateCountdown() {
  var festivalDate = new Date('2025-09-26T18:00:00');
  var now = new Date();
  var diff = festivalDate - now;
  // ... calculates and displays days/hours/minutes/seconds
}
setInterval(updateCountdown, 1000);
```

~~~

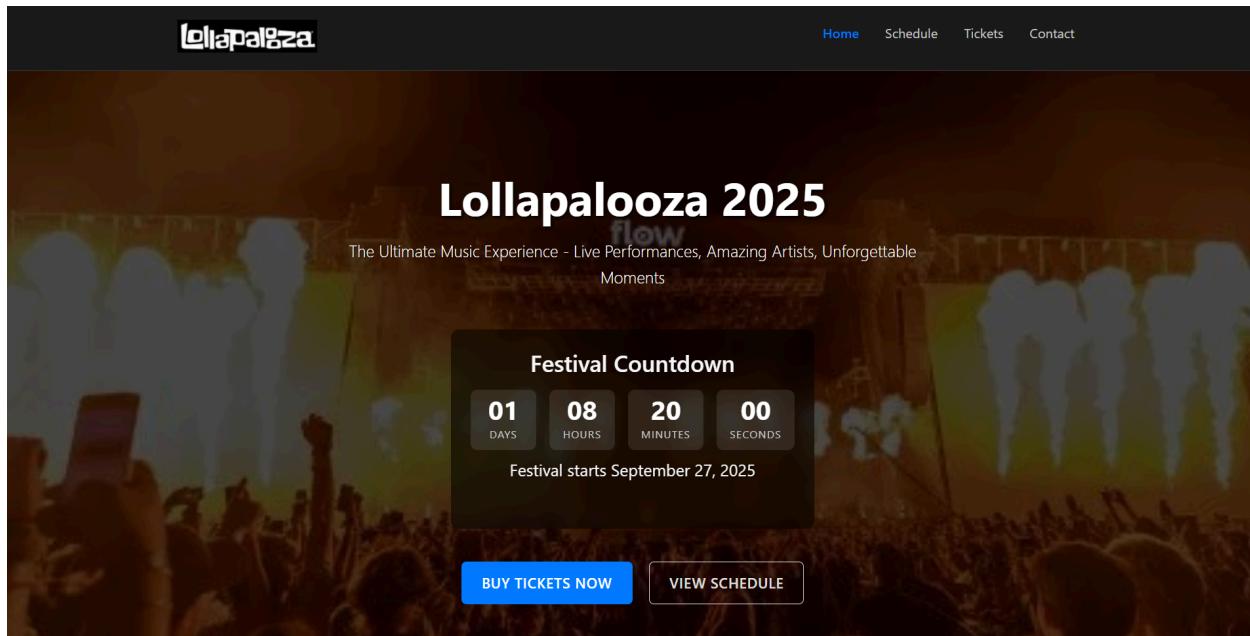
style.css

~~~

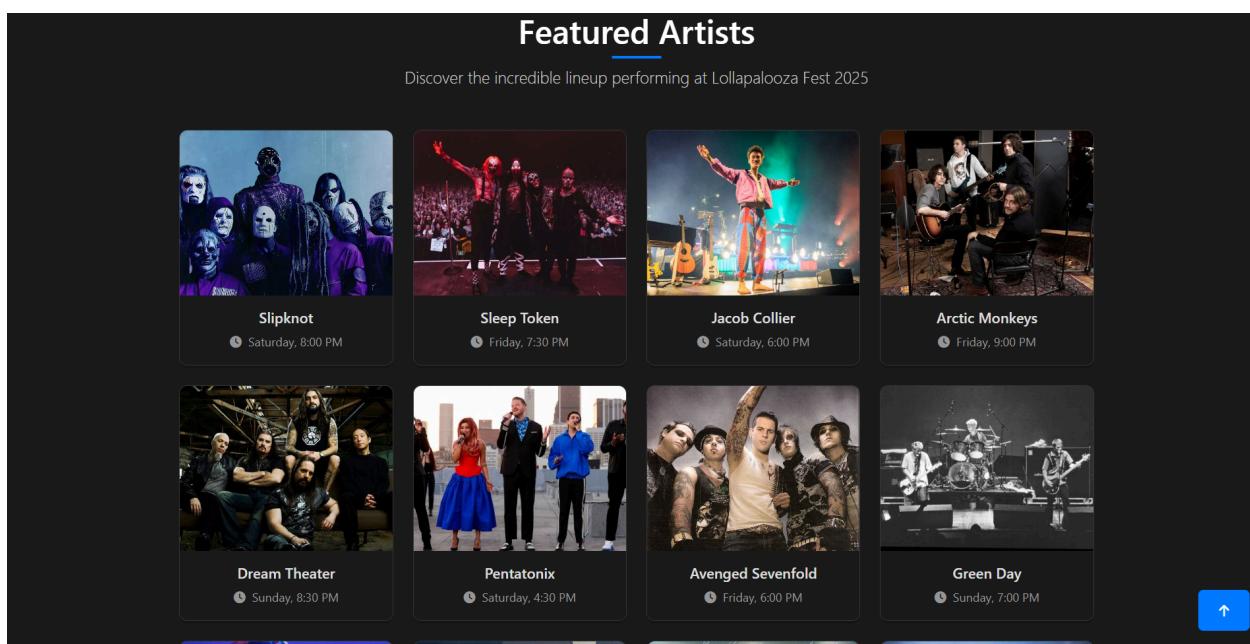
```
:root {
  --bs-body-bg: #121212;
  --bs-body-color: #e0e0e0;
  --bs-gray-100: #1a1a1a;
  --bs-gray-200: #2a2a2a;
  --bs-gray-300: #3a3a3a;
}
```

~~~

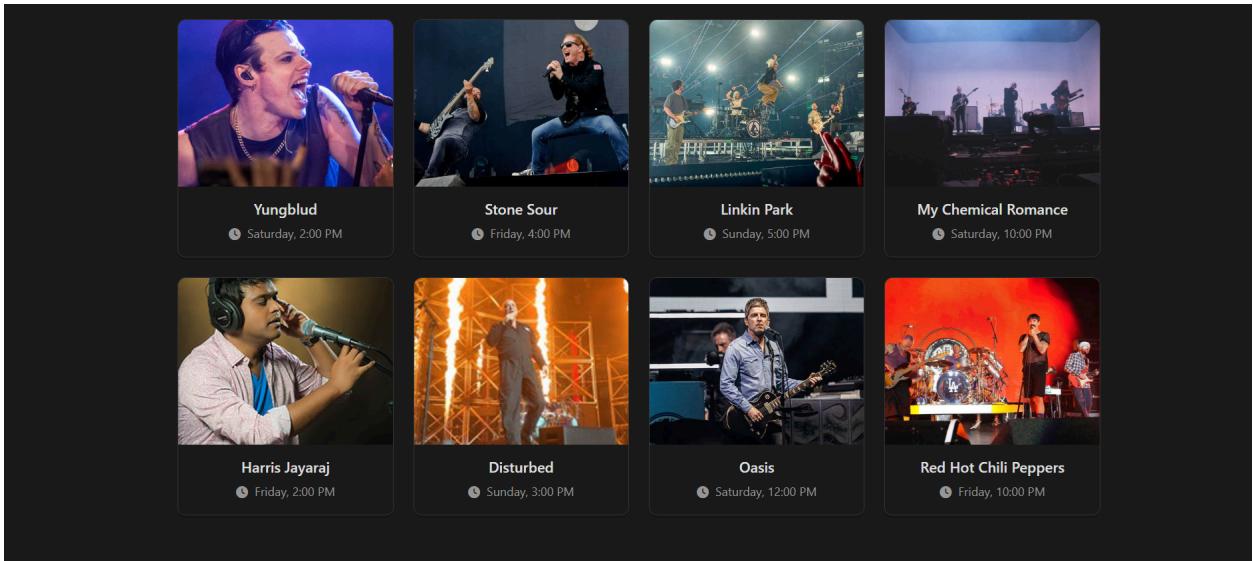
Screenshots of Final Output



The screenshot shows the Lollapalooza 2025 homepage. At the top, there's a navigation bar with links for Home, Schedule, Tickets, and Contact. The main title "Lollapalooza 2025" is prominently displayed in the center, with the subtitle "The Ultimate Music Experience - Live Performances, Amazing Artists, Unforgettable Moments" underneath. Below the title is a "Festival Countdown" section showing "01 DAYS", "08 HOURS", "20 MINUTES", and "00 SECONDS". A message below the countdown states "Festival starts September 27, 2025". At the bottom of this section are two buttons: "BUY TICKETS NOW" in blue and "VIEW SCHEDULE" in white.



The screenshot shows the "Featured Artists" page. The title "Featured Artists" is at the top, followed by a subtext "Discover the incredible lineup performing at Lollapalooza Fest 2025". Below this, there are eight artist cards arranged in two rows of four. Each card includes a small photo, the artist's name, and their performance time. The artists listed are Slipknot (Saturday, 8:00 PM), Sleep Token (Friday, 7:30 PM), Jacob Collier (Saturday, 6:00 PM), Arctic Monkeys (Friday, 9:00 PM), Dream Theater (Sunday, 8:30 PM), Pentatonix (Saturday, 4:30 PM), Avenged Sevenfold (Friday, 6:00 PM), and Green Day (Sunday, 7:00 PM). A blue arrow icon is located in the bottom right corner of the page.



Get Your Tickets Now!

Don't miss out on the biggest music event of the year. Limited tickets available.

- General Admission: ₹999
- VIP Experience: ₹12499 (Includes premium seating & backstage access)
- Weekend Pass: ₹10099
- Group Discounts Available

[PURCHASE TICKETS](#)



Festival Schedule

Plan your perfect weekend with our detailed schedule

Friday

Saturday

Sunday

Friday Schedule

[Main Stage](#)

[Side Stage](#)

<p>Harris Jayaraj</p> <p>2:00 PM - 3:00 PM</p> <p>Genre: Indian Film Music</p>		<p>Local Opening Acts</p> <p>1:00 PM - 2:00 PM</p> <p>Various Genres</p>	
<p>Stone Sour</p> <p>4:00 PM - 5:00 PM</p> <p>Genre: Hard Rock</p>		<p>Acoustic Sessions</p> <p>3:00 PM - 4:00 PM</p> <p>Unplugged Performances</p>	
<p>Avenged Sevenfold</p> <p>6:00 PM - 7:00 PM</p> <p>Genre: Heavy Metal</p>		<p>Jazz Collective</p> <p>5:00 PM - 6:00 PM</p> <p>Jazz/Blues</p>	
<p>Sleep Token</p> <p>7:30 PM - 8:30 PM</p> <p>Genre: Progressive Rock</p>		<p>Electronic Lounge</p> <p>8:00 PM - 9:00 PM</p> <p>Electronic/Chillout</p>	
<p>Arctic Monkeys</p> <p>9:00 PM - 10:00 PM</p> <p>Genre: Indie Rock</p>		<p>Late Night DJ Set</p> <p>11:00 PM - 1:00 AM</p> <p>Dance/House</p>	
<p>Red Hot Chili Peppers</p> <p>10:00 PM - 11:00 PM</p> <p>Genre: Funk Rock</p>			

Conclusion

This project serves as a digital platform for the Lollapalooza music festival, showcasing event information, artist lineup, and schedule in a user-centric and visually engaging format. The hands-on implementation strengthened skills in responsive design, layout structuring, and UI/UX best practices, enriching understanding of web development using HTML and CSS. The project also highlighted the importance of accessibility, maintainable code, and adaptability across devices.

References

- GitHub Link of the Project: <https://github.com/Aarxn-Jibz/Frontend/tree/main/Project4>
- L&T LMS: <https://learn.Intedutech.com/Landing/MyCourse>