<u>Front-End UI/UX Mini Project</u>

<u>MUSIC FESTIVAL</u>

1. Title Page

- **Project Title**: Sunburn Music Festival

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- **Course**: UI/UX Design Fundamentals

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- **Institution**: Christ University

- **Date of Submission**: 24/09/2025

2. Abstract

This project focuses on developing a fully responsive and interactive website for the **Sunburn Festival 2025**, designed to deliver an engaging and immersive digital experience for festival-goers. The primary goal was to create a platform where visitors could easily access all essential information about the festival, including artist lineups, performance schedules, ticketing options, and multimedia content. To achieve this, a **video background hero section** was implemented on the landing page, providing an immediate visual impact and setting the festival's energetic tone.

The website features a comprehensive **artist lineup showcase**, displaying performers with images, performance times, and interactive modals containing detailed biographies, allowing fans to learn more about their favorite artists. A **dynamic schedule page** was included, offering a day-wise breakdown of performances across multiple stages, making it easy for attendees to plan their festival experience. Additionally, the **ticket booking section** enables users to select ticket types, quantities, and view total costs in real-time, enhancing the overall user experience.

A **gallery section** was incorporated to highlight previous editions of the festival, providing visitors with a glimpse of the event's vibrant atmosphere. By leveraging **HTML5, CSS3, JavaScript, jQuery, and Bootstrap**, the website ensures responsiveness and accessibility across all devices, including desktops, tablets, and mobile phones. Overall, the project successfully combines **aesthetic design, interactive functionality, and responsive layout**, creating a professional online presence that effectively promotes the Sunburn Festival 2025 and engages the audience.

3. Objectives

- **Design a visually engaging and responsive event website.**
  Create a bold and modern festival identity using typography, imagery, and motion effects while ensuring layouts adapt across phones, tablets, and desktops.

- **Implement structured HTML5 for semantic clarity.**
  Use semantic tags (header, nav, section, article, footer) for logical organization, better accessibility, and SEO-friendly design.

- **Use Bootstrap for responsive layout and grid system.**
  Apply Bootstrap 5□s grid, utilities, and breakpoints to build mobile-first layouts while combining with custom CSS for fine styling.

- **Showcase artist lineup with interactive modals.**
  Display artists in responsive cards, with modals providing bios, images, and performance details for quick access.

- **Provide a day-wise schedule with smooth navigation.**
  Use tabbed schedules (Day 1 / Day 2) and smooth scrolling for clear, intuitive access to timings and stage details.

- **Integrate a dynamic ticket booking section with multiple tiers.**
  Offer General, VIP, and Platinum options with real-time price updates and form validation for a realistic booking experience.

- **Include an interactive gallery to enhance user experience.**
  Create a responsive gallery with hover/zoom effects, giving users an immersive look at festival highlights.

- **Ensure accessibility and mobile-friendliness.**
  Maintain good color contrast, alt text, and touch-friendly navigation to ensure inclusivity and reliable performance across devices.

4. Scope of the Project

This project focuses on the **front-end development** of the *Sunburn Festival 2025* promotional website, aimed at simulating a real-world event platform that is visually appealing, interactive, and responsive across devices.

The website includes the following key sections:

- **Hero Section** with video background, title, tagline, and call-to-action.

- **Artist Lineup** in responsive cards with interactive modals for bios and details.

- **Event Schedule** with day-wise tabbed navigation for timings and stages.

- **Ticket Booking** with multiple tiers (General, VIP, Platinum) and real-time price updates.

- **Photo Gallery** showcasing high-resolution images with hover effects.

- **Footer** containing navigation links, contact info, and social media icons.

Technically, the site adapts to desktops, tablets, and mobiles using **Bootstrap's grid system, media queries, and custom CSS**.

5. Tools & Technologies Used

Technology	Purpose
HTML5	Content structure and semantic markup.
CSS3	Styling, animations, and custom themes.
Bootstrap 5	Grid system and responsive UI components.
JavaScript (ES6)	Dynamic interactions and DOM manipulation.
jQuery	Simplified animations and event handling.
VS Code	Code editor used for development.
Chrome DevTools	Debugging and responsive design testing.

6. HTML Structure Overview

- **Header** – Navigation bar with links to Home, Lineup, Schedule, Tickets, Gallery, and Contact.
- **Hero Section** – Fullscreen landing area with video background, title, tagline, and CTA button.
- **Lineup** – Artist cards with modals for detailed bios and performance slots.
- **Schedule** – Day-wise schedule using tabbed navigation.
- **Tickets** – Ticket tiers (General, VIP, Platinum) with booking form and real-time updates.
- **Gallery** – Responsive grid of festival images with hover effects.
- **Footer** – Contact info, links, and social media icons.

7. CSS Styling Strategy
- Used external stylesheet (**styles.css**) for modular design.
- **Flexbox & Grid** for responsive layouts.
- **Gradient overlays** and **CSS variables** for theme consistency.
- **Hover effects** (scale, glow, shadow) and **animations** (pulse, fade, bounce) for interactivity.
- Customized **scrollbars**, responsive typography, and styled modals for a modern look.

7. Key Features

Feature	Description
Hero Section	Video background with bold festival title, tagline, and **Get Tickets** CTA
Artist Lineup	Responsive artist cards with images, genre, time slot, and **interactive modals**
Event Schedule	**Day-wise schedule** using tab navigation with clear stage/time details
Ticket Booking	Multiple pricing tiers with real-time **price calculation** in booking modal
Photo Gallery	Responsive grid with hover effects to showcase high-quality festival images
Countdown Timer	Live countdown to the festival start, updating in real time
Footer	Contact info, quick links, and social media icons in a structured layout

8. Challenges Faced & Solutions

Challenge	Details
Video Optimization	**Ensuring the hero background video runs smoothly across devices and networks.**
Modal Performance	**Maintaining smooth opening/closing of artist and ticket modals without lag.**
Responsive Schedule	**Keeping the day-wise schedule aligned and readable on smaller screens.**
Dynamic Ticketing	**Implementing real-time ticket price updates with proper form validation.**
Image Optimization	**Reducing gallery image load time while keeping quality intact.**
Countdown Accuracy	**Syncing the countdown timer correctly with the event date and time.**
Cross-Device Layout	**Ensuring footer, navbar, and grids adapt cleanly across all screen sizes.**

9. Outcome

The Sunburn Festival 2025 website successfully demonstrates the use of modern front-end technologies to build a visually engaging, responsive, and interactive event platform. The site adapts smoothly across devices with Bootstrap's grid system and custom CSS, while JavaScript enhances interactivity through countdown timers, modals, and dynamic ticket booking. The inclusion of features like a hero video background, artist lineup, day-wise schedule, and immersive photo gallery creates a professional festival experience.

Overall, the project met its primary objectives of delivering a responsive, accessible, and user-friendly promotional website. Although backend integration, real-time payments, and live streaming were outside the current scope, the front-end structure is scalable and ready for such future enhancements.

10.Future Enhancements

- Backend integration for dynamic content.
- Secure payment gateway for tickets.
- User accounts & authentication.
- Live streaming for virtual access.
- Advanced analytics & tracking.
- Progressive Web App (PWA) support.
- Accessibility and multilingual features.
- Lightbox and video support in gallery.

11. Sample Code:

Appendix A: sample HTML Code

```html
1    <!DOCTYPE html>
2    <html lang="en">
3      <head>
4        <meta charset="UTF-8" />
5        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
6        <title>Sunburn Festival 2025 | Live Love Dance</title>
7        <link
8          href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
9          rel="stylesheet"
10       />
11       <link
12         href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.11.0/font/bootstrap-icons.css"
13         rel="stylesheet"
14       />
15       <link rel="stylesheet" href="styles.css" />
16     </head>
17     <body>
18       <div class="loader-wrapper" id="loader">
19         <div class="loader-content">
20           <div class="pulse-logo">SF</div>
21           <h3 style="color: #ffcc00">LOADING EXPERIENCE</h3>
22         </div>
23       </div>
24
25       <nav class="navbar" id="navbar">
26         <div class="container">
```

```html
24
25       <nav class="navbar" id="navbar">
26         <div class="container">
27           <div class="d-flex justify-content-between align-items-center w-100">
28             <a href="#" class="navbar-brand">SUNBURN</a>
29             <div class="d-flex align-items-center">
30               <a href="#home" class="nav-link">Home</a>
31               <a href="#lineup" class="nav-link">Lineup</a>
32               <a href="#schedule" class="nav-link">Schedule</a>
33               <a href="#tickets" class="nav-link">Tickets</a>
34               <a href="#gallery" class="nav-link">Gallery</a>
35               <a href="#contact" class="nav-link">Contact</a>
36             </div>
37           </div>
38         </div>
39       </nav>
40
41       <section class="hero-section" id="home">
42         <video class="video-background" autoplay muted loop playsinline>
43           <source src="video_20250924_095652_edit.mp4" type="video/mp4" />
44         </video>
45         <div class="video-overlay"></div>
46         <div class="hero-content">
47           <h1 class="hero-title">SUNBURN 2025</h1>
48           <p class="hero-subtitle">LIVE • LOVE • DANCE</p>
49           <a href="#tickets" class="cta-button">GET YOUR TICKETS NOW</a>
50         </div>
```

Apendix css sample code :

```css
1    * {
2      margin: 0;
3      padding: 0;
4      box-sizing: border-box;
5    }
6
7    body {
8      font-family: "Segoe UI", system-ui, -apple-system, sans-serif;
9      background: #0a0a0a;
10     color: #fff;
11     overflow-x: hidden;
12     position: relative;
13   }
14
15   /* Scrollbar styling */
16   ::-webkit-scrollbar {
17     width: 8px;
18   }
19
20   ::-webkit-scrollbar-track {
21     background: #1a1a1a;
22   }
23
24   ::-webkit-scrollbar-thumb {
25     background: linear-gradient(45deg, #ff6b00, #ffcc00);
26     border-radius: 10px;
27   }
```

```css
29   /* Loading Screen */
30   .loader-wrapper {
31     position: fixed;
32     top: 0;
33     left: 0;
34     width: 100%;
35     height: 100%;
36     background: #000;
37     z-index: 9999;
38     display: flex;
39     align-items: center;
40     justify-content: center;
41     transition: opacity 0.5s ease;
42   }
43
44   .loader-content {
45     text-align: center;
46   }
47
48   .pulse-logo {
49     width: 120px;
50     height: 120px;
51     background: linear-gradient(45deg, #ff6b00, #ffcc00);
52     border-radius: 50%;
53     animation: pulse 2s infinite;
54     margin: 0 auto 20px;
```

Appendix js code :

```javascript
// Artist data
const artistsData = {
  "DJ Aurora": {
    bio: "Renowned for her electrifying EDM sets, DJ Aurora has been dominating festival stages worldwide. Her unique blend of tra
    image:
      "https://images.unsplash.com/photo-1493225457124-a3eb161ffa5f?w=600&h=400&fit=crop",
    performance: "Day 1 • 8:00 PM • Main Stage",
  },
  "Echo Bay": {
    bio: "Echo Bay mesmerizes audiences with atmospheric indie-pop and powerful melodies. Their dreamy soundscapes combined with e
    image:
      "https://images.unsplash.com/photo-1470225620780-dba8ba36b745?w=600&h=400&fit=crop",
    performance: "Day 2 • 7:00 PM • Main Stage",
  },
  Starlite: {
    bio: "Starlite brings cosmic electro-pop with dazzling visuals for a complete sensory feast. Their innovative use of synthesiz
    image:
      "https://images.unsplash.com/photo-1516280440614-37939bbacd81?w=600&h=400&fit=crop",
    performance: "Day 2 • 5:30 PM • Sunset Stage",
  },
  "River Sound": {
    bio: "Fusing world rhythms with modern jazz, River Sound radiates feel-good vibes. Their multicultural approach to music bring
    image:
      "https://images.unsplash.com/photo-1459749411175-04bf5292ceea?w=600&h=400&fit=crop",
    performance: "Day 1 • 6:30 PM • Sunset Stage",
  },
  "Neon Dreams": {
```
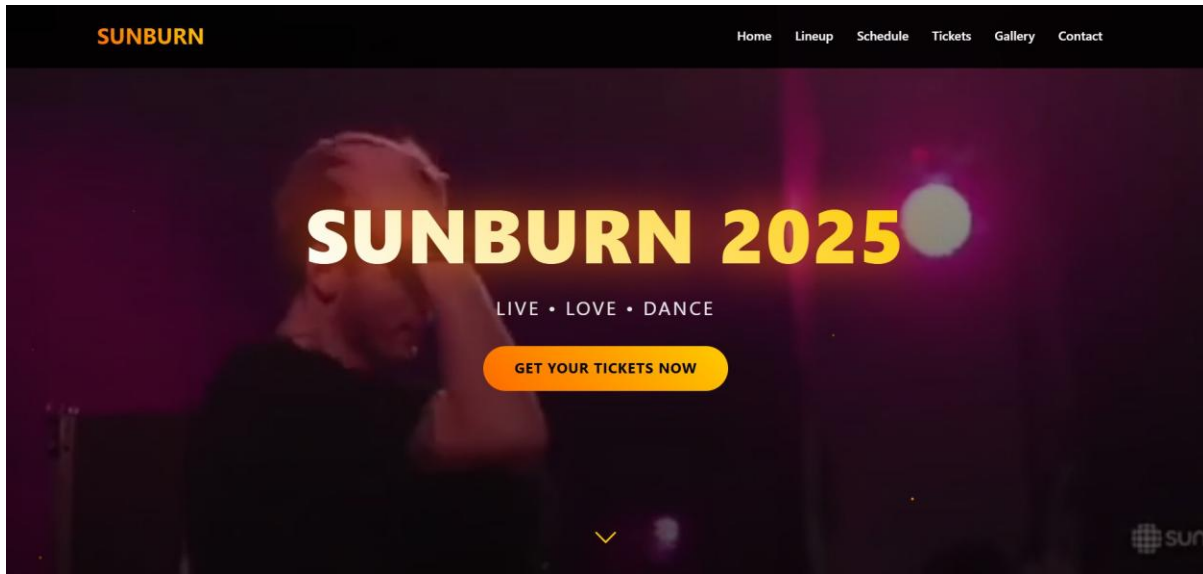
```javascript
107        updateCountdown();
108
109        // Schedule tab switching
110  ∨     function switchDay(day) {
111          document.querySelectorAll(".schedule-tab").forEach((tab) => {
112            tab.classList.remove("active");
113          });
114          document.querySelectorAll(".schedule-content").forEach((content) => {
115            content.classList.remove("active");
116          });
117
118          document
119            .querySelectorAll(".schedule-tab")
120            [day - 1].classList.add("active");
121          document.getElementById(`day${day}-schedule`).classList.add("active");
122        }
123
124        // Modal functions
125  ∨     function openArtistModal(artistName) {
126          const artist = artistsData[artistName];
127          if (artist) {
128            document.getElementById("modalArtistName").textContent = artistName;
129            document.getElementById("modalArtistImage").src = artist.image;
130            document.getElementById("modalArtistBio").textContent = artist.bio;
131            document.getElementById("modalPerformanceDetails").textContent =
132              artist.performance;
133            document.getElementById("artistModal").style.display = "block";
134          }
135        }
136
```
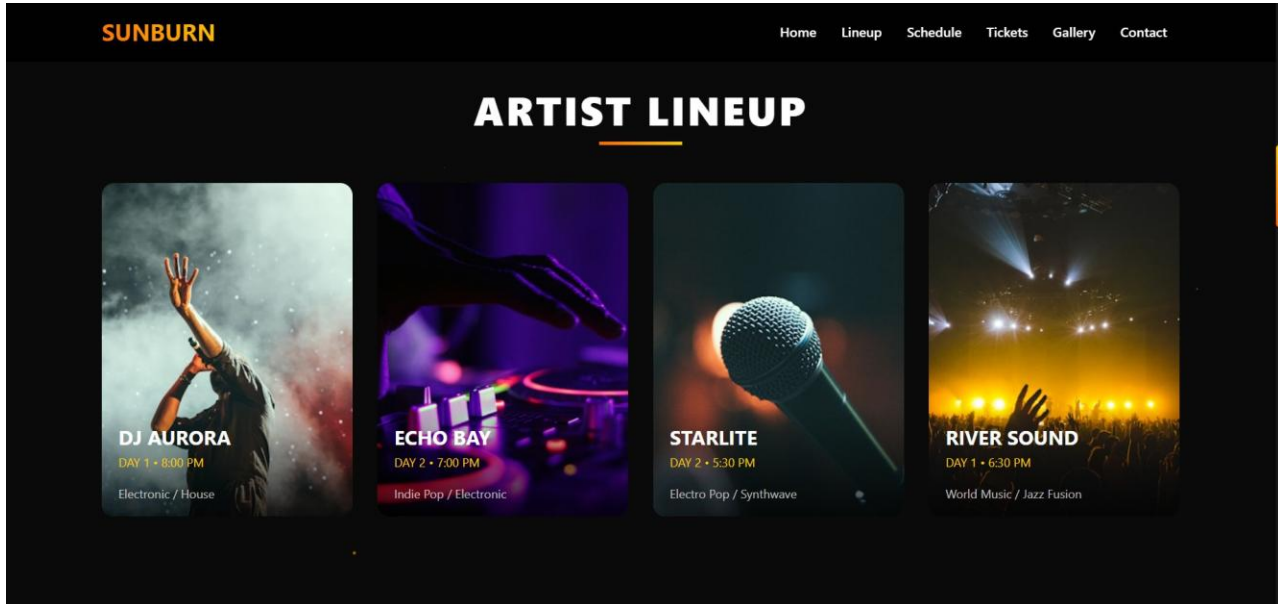
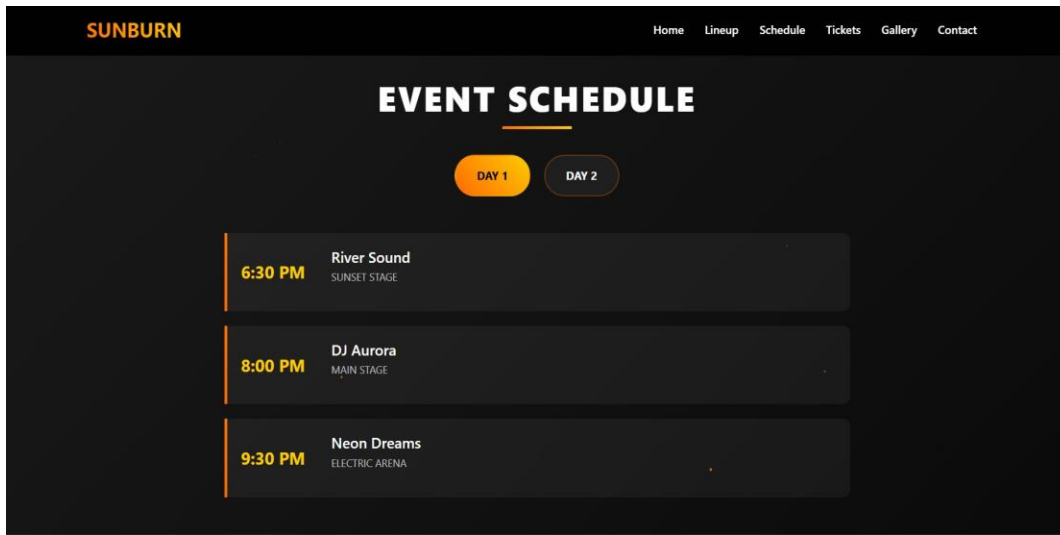- The following screenshots illustrate the different sections of the Sunburn Festival 2025 website:
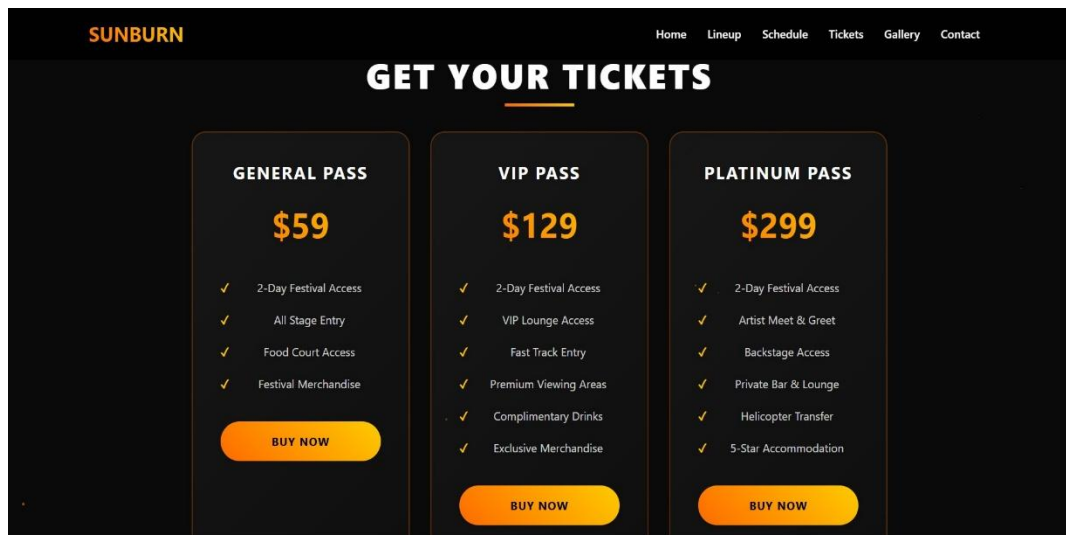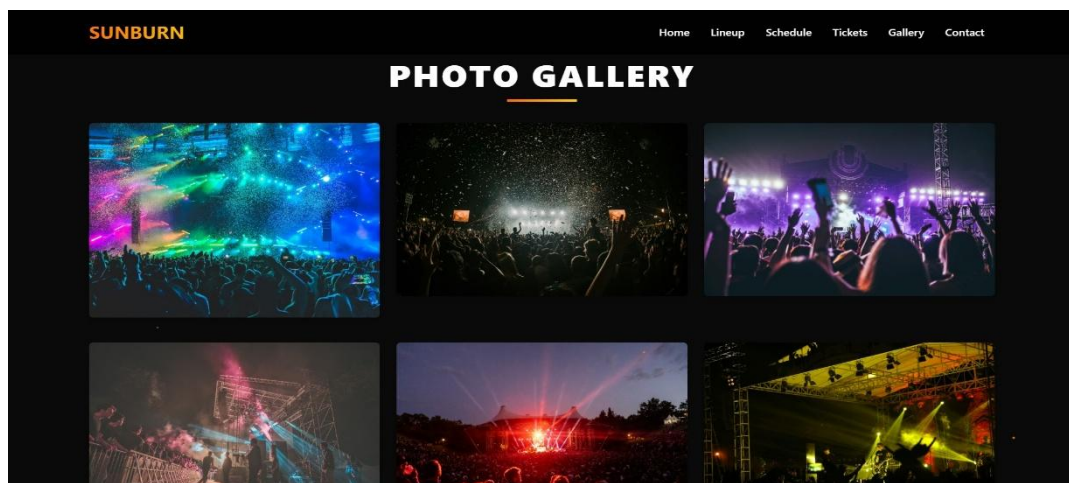
- Hero Section
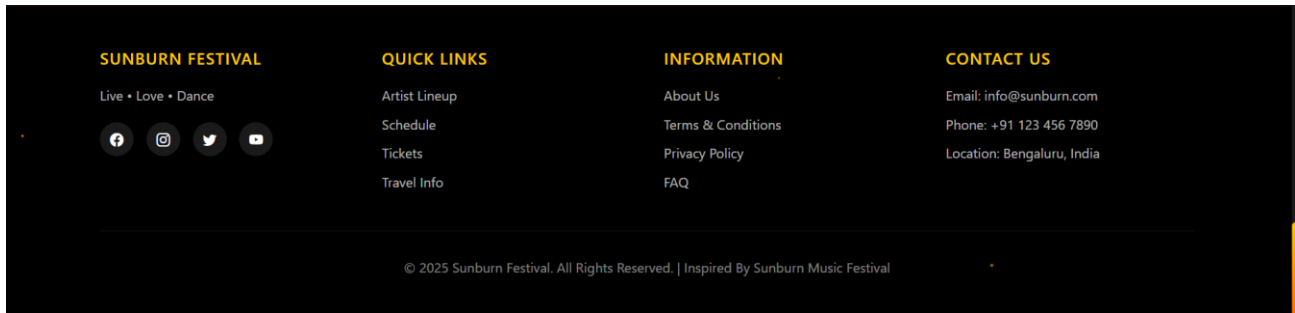

- Artist Lineup

- Event Schedule

- Ticket Booking

- Photo Gallery

- Footer

Outcomes

- Delivered a responsive, visually appealing front-end website for Sunburn Festival 2025.
- Implemented interactive features like countdown timer, artist modals, and ticket booking.
- Optimized layouts using Bootstrap, CSS animations, and media queries for all devices.
- Enhanced user engagement through gallery, smooth navigation, and hover effects.
- Built a scalable foundation for future backend integration and e-commerce features.

Conclusion

The project successfully achieved its primary objective of designing and developing an immersive, visually striking, and user-friendly promotional website for Sunburn Festival 2025. By leveraging modern front-end technologies such as HTML5, CSS3, Bootstrap, and JavaScript, the website delivers a smooth, responsive, and engaging experience across devices. Key features, including the dynamic hero section with video background, artist lineup with modals, day-wise schedule, interactive ticket booking, and gallery, demonstrate how design and interactivity can be combined to enhance user engagement.

Although this implementation was limited to the front-end, it establishes a strong foundation for further expansion. Future integration of secure payment gateways, backend systems for real-time updates, and live streaming features could transform the site into a fully functional event management platform. Overall, the project highlights the importance of blending creativity with technical implementation to create impactful digital experiences for large-scale events.

References

1. Bootstrap Documentation – *https://getbootstrap.com/*
2. jQuery Documentation – *https://api.jquery.com/*
3. MDN Web Docs (HTML, CSS, JavaScript) – *https://developer.mozilla.org/*
4. Unsplash (Free Images for Artists & Gallery) – *https://unsplash.com/*
5. Sunburn Festival Official Website – *https://www.sunburn.in/*