

Front-End UI/UX Mini Project

Beat Wave Music Fest Website

1. Title Page

- **Project Title:** Music Festival Websi
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- **Instructor Name:** *Dhiraj Alate.*
- **Institution:** *e.g., Christ University*
- **Date of Submission:** *26/09/2025*



2. Abstract

This project aims to design and develop a responsive promotional website for a fictional 2-day music festival called BeatWave Music Fest. The website provides information about the festival lineup, event schedule, ticket booking options, and artist profiles. The key goal is to create a visually engaging, user-friendly interface optimized for multiple screen sizes. Core technologies used include HTML5, CSS3, Bootstrap 5 for responsive design and components, JavaScript for interactive features like modals and dynamic ticket forms, and jQuery for handling UI events efficiently. The final outcome is a fully functional front-end prototype that allows users to view schedules, check artist bios, and simulate ticket purchases, providing a realistic festival browsing experience.

3. Objectives

- Design a visually appealing, user-friendly interface using modern UI/UX principles.
- Develop a fully responsive layout compatible with desktop, tablet, and mobile screens.
- Implement structured HTML5 semantic elements to ensure accessibility and readability.
- Apply CSS styling and Bootstrap classes for layout management, typography, and responsive behavior.
- Include interactive features like modals for artist bios and ticket purchase.

4. Scope of the Project

- Focused on front-end development only; no server-side integration.
- Covers homepage, tickets, and schedule pages for a 2-day festival.
- Features interactive modals for artist bios and ticket purchase.
- Optimized for various devices using Bootstrap's responsive grid system.
- Uses only open-source tools and pure code; no paid libraries or frameworks.



5. Tools & Technologies Used

Tool/Technology	Purpose
HTML5	Markup structure of pages
CSS3	Styling, layout, and responsive behavior
Bootstrap 5	Grid system, responsive utilities, cards, buttons, navbars, modals
JavaScript	Handling interactivity: modals, ticket purchase form validation, event listeners
jQuery	Simplified DOM manipulation and UI event handling (e.g., modal triggers)
VS Code	Code editing and development
Chrome DevTools	Testing and debugging
Unsplash Images	Placeholder images for hero section and artist cards

6. HTML Structure Overview

- Used semantic tags: <header>, <nav>, <main>, <section>, <footer>.
- Pages structured into reusable sections: Hero, Lineup/Artists, Schedule, Tickets, Footer.
- Navigation menu implemented with and for easy navigation across pages.
- Artist cards and ticket cards use Bootstrap components (card, badge) for uniform layout.
- Modals implemented using Bootstrap modal component for artist bio and ticket purchase



7. CSS Styling Strategy & JavaScript, JQuery and Bootstrap

- CSS: External stylesheet (style.css) with Flexbox/Grid for layout, media queries for responsiveness, hover effects, and shadow effects.
- JavaScript: Handles modal popups for artist bios and ticket purchase forms. Manages dynamic updates like ticket selection or form validation.
- JQuery: Simplifies event binding and DOM manipulation for interactive elements (e.g., clicking an artist card opens the modal, updating ticket modal content dynamically).
- Bootstrap Components: Navbar, hero section, cards, badges, tables, and modals leverage Bootstrap classes for consistency and responsive behavior.

8. Key Features

Feature	Description
Responsive Design	Adapts seamlessly to all screen sizes using Bootstrap grid and media queries.
Hero Section	Full-width hero image with festival name and CTA button.
Artist Lineup	Grid layout showing artists with images, stage, time, and genre badges.
Artist Bio Modals	Clicking an artist card opens a Bootstrap modal, populated and triggered with JavaScript/jQuery.
Schedule Page	Separate page showing 2-day festival timetable in table format.
Tickets Section	Card-based ticket selection with GA, VIP, and Front Row options.
Ticket Purchase Modal	Modal form collects user info and payment details with JS/jQuery interactivity.
Smooth Navigation	Fixed top navbar with responsive hamburger menu using Bootstrap.



9. Challenges Faced & Solutions

Challenge	Solution
Aligning cards and sections on different screen sizes	Used Bootstrap grid system and media queries for flexible layouts
Making modals dynamic for ticket types	Used JavaScript data-attributes to dynamically update modal content
Maintaining consistent style across pages	Centralized styling in external CSS file and used Bootstrap classes
Selecting placeholder images for artists	Used Unsplash dynamic URLs with relevant keywords

10. Outcome

- Achieved a visually engaging, responsive front-end for a 2-day music festival.
- Users can view schedules, check artist bios, and interact with ticket purchase modal.
- Learned practical implementation of Bootstrap components, CSS styling, and responsive UI layout.

11. Future Enhancements

- Add real payment gateway integration for ticket purchase.
- Include interactive festival map and stage layout.
- Add animations and transitions for artist card hover effects.
- Implement live countdown timer for festival start.
- Add user login and personalized festival schedules.



12. Sample Code

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

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

```
<title>Festival Schedule</title>
```

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet">
```

```
<style>
```

```
.artist-card {
  border: none;
  border-radius: 12px;
  overflow: hidden;
  box-shadow: 0 4px 12px rgba(0,0,0,0.2);
  transition: transform 0.3s;
  cursor: pointer;
}
```

```
.artist-card:hover {
  transform: scale(1.03);
}
```

```
.artist-img {
  height: 200px;
  object-fit: cover;
}
```

```
.badge-genre {
  font-size: 0.85rem;
}
```

```
</style>
```



</head>

<body>

<!-- Navbar -->

<nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top">

<div class="container">

BeatWave Fest

<div class="collapse navbar-collapse" id="navbarNav">

<ul class="navbar-nav ms-auto">

<li class="nav-item">Lineup

<li class="nav-item">Schedule

<li class="nav-item">Tickets

</div>

</div>

</nav>

<section class="container py-5" style="margin-top: 70px;">

<h2 class="text-center mb-4">Festival Schedule</h2>

<!-- Tabs for Days -->

<ul class="nav nav-tabs justify-content-center mb-4" id="scheduleTabs">

<li class="nav-item">Day 1

<li class="nav-item">Day 2

<div class="tab-content">

<!-- Day 1 -->



```
<div class="tab-pane fade show active" id="day1">

  <div class="row g-4">

    <!-- Artist One -->

    <div class="col-md-6 col-lg-3">

      <div class="card artist-card" data-bs-toggle="modal" data-bs-target="#artistOneModal">

        <div class="card-body text-center">

          <h5 class="card-title">Calvin Harris</h5>

          <p class="text-muted">6:00 PM • Alpha Stage</p>

          <span class="badge bg-primary badge-genre">EDM</span>

        </div>

      </div>

    </div>

    <!-- Artist Two -->

    <div class="col-md-6 col-lg-3">

      <div class="card artist-card" data-bs-toggle="modal" data-bs-target="#artistTwoModal">

        <div class="card-body text-center">

          <h5 class="card-title">Jack White</h5>

          <p class="text-muted">7:30 PM • Beta Stage</p>

          <span class="badge bg-danger badge-genre">Rock</span>

        </div>

      </div>

    </div>

    <!-- Artist Three -->

    <div class="col-md-6 col-lg-3">

      <div class="card artist-card" data-bs-toggle="modal" data-bs-target="#artistThreeModal">
```




```


<div class="card-body text-center">

  <h5 class="card-title">Kendrick Lamar</h5>

  <p class="text-muted">9:15 PM • Gamma Stage</p>

  <span class="badge bg-warning text-dark badge-genre">Hip-Hop</span>

</div>

</div>

</div>

<!-- Artist Four -->

<div class="col-md-6 col-lg-3">

  <div class="card artist-card" data-bs-toggle="modal" data-bs-target="#artistFourModal">

    <div class="card-body text-center">

      <h5 class="card-title">Sabrina Carpenter</h5>

      <p class="text-muted">10:45 PM • Alpha Stage</p>

      <span class="badge bg-success badge-genre">Pop</span>

    </div>

  </div>

</div>

</div>

</div>

<!-- Day 2 -->

<div class="tab-pane fade" id="day2">

  <div class="row g-4">

    <!-- Artist Five -->

    <div class="col-md-6 col-lg-3">
```



```
<div class="card artist-card" data-bs-toggle="modal" data-bs-target="#artistFiveModal">

  <div class="card-body text-center">

    <h5 class="card-title">Passenger</h5>

    <p class="text-muted">5:00 PM • Alpha Stage</p>

    <span class="badge bg-info text-dark badge-genre">Acoustic</span>

  </div>

</div>

</div>

<!-- Artist Six -->

<div class="col-md-6 col-lg-3">

  <div class="card artist-card" data-bs-toggle="modal" data-bs-target="#artistSixModal">

    <div class="card-body text-center">

      <h5 class="card-title">Herbie hancock</h5>

      <p class="text-muted">7:00 PM • Beta Stage</p>

      <span class="badge bg-secondary badge-genre">Jazz</span>

    </div>

  </div>

</div>

<!-- Artist Seven -->

<div class="col-md-6 col-lg-3">

  <div class="card artist-card" data-bs-toggle="modal" data-bs-target="#artistSevenModal">

    <div class="card-body text-center">

      <h5 class="card-title">Dave Mustaine</h5>
```



```
<p class="text-muted">9:00 PM • Gamma Stage</p>

<span class="badge bg-dark badge-genre">Metal</span>

</div>

</div>

</div>

<!-- Headliner -->

<div class="col-md-6 col-lg-3">

  <div class="card artist-card" data-bs-toggle="modal" data-bs-
target="#artistHeadlinerModal">

    <div class="card-body text-center">

      <h5 class="card-title">Headliner</h5>

      <p class="text-muted">11:00 PM • Main Stage</p>

      <span class="badge bg-warning text-dark badge-genre">Main Act</span>

    </div>

  </div>

</div>

</div>

</div>

</div>

</div>

</section>


<footer class="bg-dark text-white text-center py-3">

  <p>&copy; 2025 BeatWave Music Fest</p>

</footer>


<!-- Modals Day 1 -->

<div class="modal fade" id="artistOneModal" tabindex="-1">
```



```
<div class="modal-dialog modal-dialog-centered"><div class="modal-content">  
  <div class="modal-header"><h5 class="modal-title">Artist One</h5><button type="button"  
class="btn-close" data-bs-dismiss="modal"></button></div>  
  <div class="modal-body"><p>Known for heartfelt, stripped-down storytelling.  
  
Best known for Let Her Go, with most of his music built around acoustic guitar.</p></div>  
</div></div>  
</div>
```

```
<div class="modal fade" id="artistTwoModal" tabindex="-1">  
  <div class="modal-dialog modal-dialog-centered"><div class="modal-content">  
    <div class="modal-header"><h5 class="modal-title">Jack White</h5><button type="button"  
class="btn-close" data-bs-dismiss="modal"></button></div>  
    <div class="modal-body"><p>Guitarist and singer, originally from The White Stripes.  
Known for raw, blues-influenced rock.Solo work mixes garage rock, folk, and experimental  
sounds.</p></div>  
  </div></div>  
</div>
```

```
<div class="modal fade" id="artistThreeModal" tabindex="-1">  
  <div class="modal-dialog modal-dialog-centered"><div class="modal-content">  
    <div class="modal-header"><h5 class="modal-title">Kendrick Lamar</h5><button  
type="button" class="btn-close" data-bs-dismiss="modal"></button></div>  
    <div class="modal-body"><p>One of the greatest modern rappers.  
Albums like DAMN. and Mr. Morale & The Big Steppers mix personal storytelling, social  
commentary, and experimental beats.Won the Pulitzer Prize for Music.  
  
</p></div>
```



</div></div>

</div>

<div class="modal fade" id="artistFourModal" tabindex="-1">

<div class="modal-dialog modal-dialog-centered"><div class="modal-content">

<div class="modal-header"><h5 class="modal-title">Artist Four</h5><button type="button" class="btn-close" data-bs-dismiss="modal"></button></div>

<div class="modal-body"><p>Artist Four is a pop star with catchy beats and colorful shows.</p></div>

</div></div>

</div>

<!-- Modals Day 2 -->

<div class="modal fade" id="artistFiveModal" tabindex="-1">

<div class="modal-dialog modal-dialog-centered"><div class="modal-content">

<div class="modal-header"><h5 class="modal-title">Passenger</h5><button type="button" class="btn-close" data-bs-dismiss="modal"></button></div>

<div class="modal-body"><p>Known for heartfelt, stripped-down storytelling.

Best known for Let Her Go, with most of his music built around acoustic guitar.</p></div>

</div></div>

</div>

<div class="modal fade" id="artistSixModal" tabindex="-1">

<div class="modal-dialog modal-dialog-centered"><div class="modal-content">

<div class="modal-header"><h5 class="modal-title">Artist Six</h5><button type="button" class="btn-close" data-bs-dismiss="modal"></button></div>



```
<div class="modal-body"><p>Artist Six brings smooth jazz vibes with saxophone
magic.</p></div>
```

```
</div></div>
```

```
</div>
```

```
<div class="modal fade" id="artistSevenModal" tabindex="-1">
```

```
<div class="modal-dialog modal-dialog-centered"><div class="modal-content">
```

```
<div class="modal-header"><h5 class="modal-title">Artist Seven</h5><button type="button"
class="btn-close" data-bs-dismiss="modal"></button></div>
```

```
<div class="modal-body"><p>Artist Seven unleashes heavy metal with roaring
guitars.</p></div>
```

```
</div></div>
```

```
</div>
```

```
<div class="modal fade" id="artistHeadlinerModal" tabindex="-1">
```

```
<div class="modal-dialog modal-dialog-centered"><div class="modal-content">
```

```
<div class="modal-header"><h5 class="modal-title">Headliner</h5><button type="button"
class="btn-close" data-bs-dismiss="modal"></button></div>
```

```
<div class="modal-body"><p>The Headliner closes the fest with an epic DJ set.</p></div>
```

```
</div></div>
```

```
</div>
```

```
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
```

```
</body>
```

```
</html>
```

```
ticket.html
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```



```
<head>

  <meta charset="UTF-8">

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

  <title>BeatWave Music Fest</title>

  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet">

  <style>

    .hero {

      background: url('https://images.unsplash.com/photo-1507874457470-272b3c8d8ee2?ixlib=rb-
4.0.3&auto=format&fit=crop&w=1600&q=80') center/cover no-repeat;

      height: 90vh;

      display: flex;

      justify-content: center;

      align-items: center;

      color: white;

      text-shadow: 2px 2px 8px rgba(0,0,0,0.7);

    }

    .hero .btn {

      padding: 12px 30px;

      font-size: 1.2rem;

    }

  </style>

</head>

<body>

  <!-- Navbar -->

  <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top">

    <div class="container">

      <a class="navbar-brand fw-bold" href="#">BeatWave Fest</a>
```



```
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNav">

  <span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarNav">

  <ul class="navbar-nav ms-auto">

    <li class="nav-item"><a class="nav-link" href="scheduleee.html">Schedule</a></li>

    <li class="nav-item"><a class="nav-link active" href="#tickets">Tickets</a></li>

  </ul>

</div>

</div>

</nav>

<!-- Hero Section -->

<section class="hero text-center">

  <div>

    <h1 class="display-3 fw-bold">BeatWave Music Fest</h1>

    <p class="lead">2 Days • 3 Stages • Endless Vibes</p>

    <a href="#tickets" class="btn btn-primary btn-lg mt-3">Buy Tickets</a>

  </div>

</section>

<!-- Welcome -->

<section class="container text-center py-5">

  <h2>Welcome to BeatWave 2025</h2>

  <p>Join us for an electrifying 2-day festival featuring world-class artists, immersive stages, and
unforgettable experiences.</p>

</section>
```




```
<!-- Tickets Section -->

<section id="tickets" class="container py-5">

  <h2 class="text-center mb-4">Get Your Tickets</h2>

  <div class="row g-4">

    <!-- GA -->

    <div class="col-md-4">

      <div class="card shadow-sm h-100">

        <div class="card-body text-center">

          <h4 class="card-title">General Admission</h4>

          <p class="card-text">Access to all stages (Standing Zone)</p>

          <h3 class="text-primary">$99</h3>

          <button class="btn btn-outline-primary" data-bs-toggle="modal" data-bs-
target="#ticketModal" data-ticket="General Admission - $99">Buy GA</button>

        </div>

      </div>

    </div>

    </div>

    <!-- VIP -->

    <div class="col-md-4">

      <div class="card shadow-sm h-100">

        <div class="card-body text-center">

          <h4 class="card-title">VIP</h4>

          <p class="card-text">Exclusive VIP area, closer to stage + lounge access</p>

          <h3 class="text-success">$199</h3>

          <button class="btn btn-success" data-bs-toggle="modal" data-bs-target="#ticketModal"
data-ticket="VIP - $199">Buy VIP</button>

        </div>

      </div>

    </div>

  </div>

<!-- Front Row -->
```



```
<div class="col-md-4">

  <div class="card shadow-sm h-100">

    <div class="card-body text-center">

      <h4 class="card-title">Front Row</h4>

      <p class="card-text">Closest to stage, meet & greet with artists</p>

      <h3 class="text-danger">$299</h3>

      <button class="btn btn-danger" data-bs-toggle="modal" data-bs-target="#ticketModal"
data-ticket="Front Row - $299">Buy Front Row</button>

    </div>

  </div>

</div>

</div>

</section>
```

```
<!-- Ticket Purchase Modal -->

<div class="modal fade" id="ticketModal" tabindex="-1" aria-hidden="true">

  <div class="modal-dialog modal-dialog-centered">

    <div class="modal-content">

      <form>

        <div class="modal-header">

          <h5 class="modal-title">Purchase Ticket</h5>

          <button type="button" class="btn-close" data-bs-dismiss="modal"></button>

        </div>

        <div class="modal-body">

          <p id="selectedTicket" class="fw-bold text-center text-primary"></p>

          <div class="mb-3">

            <label class="form-label">Full Name</label>

            <input type="text" class="form-control" placeholder="Enter your name" required>

          </div>

        </div>

      </form>

    </div>

  </div>

</div>
```



```
<div class="mb-3">

  <label class="form-label">Email Address</label>

  <input type="email" class="form-control" placeholder="Enter your email" required>

</div>

<div class="mb-3">

  <label class="form-label">Card Number</label>

  <input type="text" class="form-control" placeholder="1234 5678 9012 3456" required>

</div>

<div class="row">

  <div class="col-md-6 mb-3">

    <label class="form-label">Expiry</label>

    <input type="text" class="form-control" placeholder="MM/YY" required>

  </div>

  <div class="col-md-6 mb-3">

    <label class="form-label">CVV</label>

    <input type="password" class="form-control" placeholder="123" required>

  </div>

</div>

</div>

<div class="modal-footer">

  <button type="submit" class="btn btn-primary w-100">Confirm Purchase</button>

</div>

</form>

</div>

</div>

</div>

<!-- Footer -->
```



```
<footer class="bg-dark text-white text-center py-3">
```

```
<p>&copy; 2025 BeatWave Music Fest</p>
```

```
</footer>
```

```
<script
```

```
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
```

```
<script>
```

```
// Fill selected ticket info in modal
```

```
const ticketModal = document.getElementById('ticketModal');
```

```
ticketModal.addEventListener('show.bs.modal', function (event) {
```

```
    const button = event.relatedTarget;
```

```
    const ticket = button.getAttribute('data-ticket');
```

```
    document.getElementById('selectedTicket').innerText = "You are buying: " + ticket;
```

```
});
```

```
</script>
```

```
</body>
```

```
</html>
```

```
styles.css
```

```
.hero {
```

```
    position: relative;
```

```
    height: 90vh;
```

```
    background: url('../images/hero-banner.jpg') center/cover no-repeat;
```

```
    display: flex;
```

```
    align-items: center;
```

```
    justify-content: center;
```

```
    color: #fff;
```

```
}
```

```
.hero::after {
```

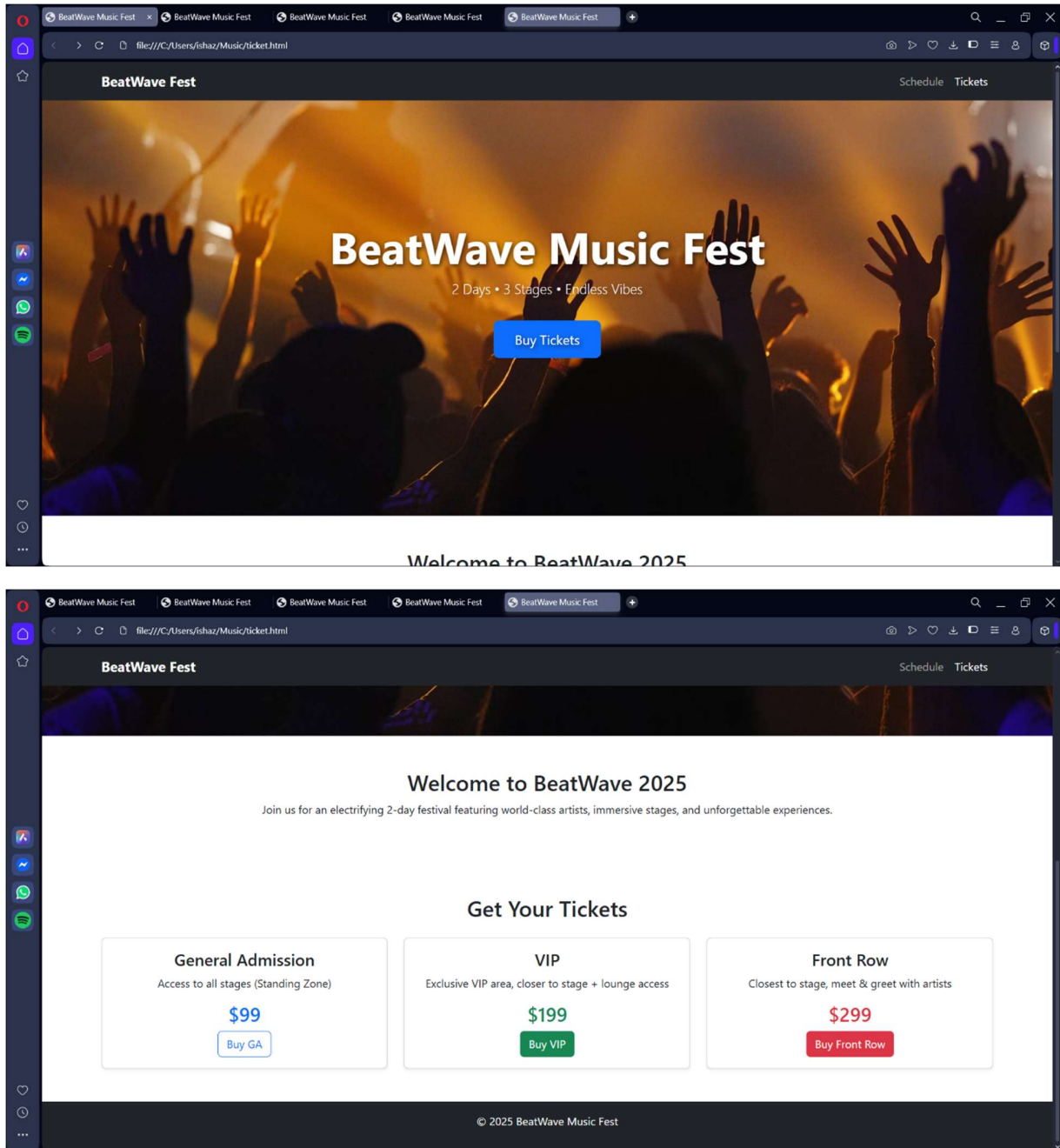
```
    content: "";
```



```
position: absolute;  
top: 0; left: 0; right: 0; bottom: 0;  
background: rgba(0,0,0,0.5);  
}
```

```
.hero-content {  
position: relative;  
z-index: 1;  
}
```

13. Screenshots of Final Output



BeatWave Music Fest


file:///C:/Users/ishaz/Music/scheduleee.html

BeatWave Fest


Lineup Schedule Tickets

Festival Schedule


Day 1 Day 2




Calvin Harris
6:00 PM • Alpha Stage
EDM



Jack White
7:30 PM • Beta Stage
Rock



Kendrick Lamar
9:15 PM • Gamma Stage
Hip-Hop



Sabrina Carpenter
10:45 PM • Alpha Stage
Pop

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BeatWave Music Fest


file:///C:/Users/ishaz/Music/scheduleee.html

BeatWave Fest


Lineup Schedule Tickets

Festival Schedule


Jack White



Guitarist and singer, originally from The White Stripes. Known for raw, blues-influenced rock. Solo work mixes garage rock, folk, and experimental sounds.



Calvin Harris
6:00 PM • Alpha Stage
EDM



Sabrina Carpenter
10:45 PM • Alpha Stage
Pop

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11. Conclusion

The BeatWave Music Fest mini-project demonstrates the design and implementation of a responsive festival website. It emphasizes user-centric UI/UX, interactive components, and clean visual hierarchy. Through this project, practical skills in HTML, CSS, Bootstrap, JavaScript, and jQuery were strengthened, providing hands-on experience in creating real-world web interfaces.

12. References

- Bootstrap 5 Documentation: <https://getbootstrap.com/docs/5.3/getting-started/introduction/>
- Unsplash Images: <https://unsplash.com/>
- L&T LMS: <https://learn.lntedutech.com/Landing/MyCourses>
-