

Front-End UI/UX Mini Project

Responsive Airline Booking Website for ADJ Airlines

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Abstract

This project is a fully responsive airline booking website for ADJ Airlines, designed and built with semantic HTML5 and modern CSS3. The site features a prominent hero section, a flight search form, informational About and Contact sections, and a clean navigation UI. Users can search for flights, view available options, and see a sample confirmation—all within a visually appealing, mobile-first design. The project demonstrates solid UI/UX practices, accessibility, and front-end development skills using only native web technologies.

Objectives

- Design a clean, intuitive airline booking interface
- Implement responsive layouts for all major devices
- Use HTML5 semantic elements for SEO and accessibility
- Style the website consistently with CSS3 and minimal assets
- Demonstrate a clear booking/search flow for users

Scope of the Project

- **Inclusions:**
 - i. Focus on front-end design and user experience.
 - ii. Responsive design for desktop, tablet, and mobile.
 - iii. Usage of only HTML5 and CSS3 (no JavaScript or server-side code).
 - iv. All code and assets are open-source; no third-party libraries.
- **Exclusions:**
 - i. No dynamic interactivity (no JavaScript).
 - ii. No backend or database integration.
 - iii. No form submission or order processing.

Tools & Technologies Used

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

HTML Structure Overview

- Main files:
 - index.html: Hero, flight search, About, Contact, navigation
 - flights.html: Lists available flights (search results)
 - confirm.html: Shows booking confirmation
- Semantic elements:
<header>, <nav>, <section>, <footer>, <form>, <main>
- Navigation is consistent across pages, allowing easy movement between sections.
- Each section is visually separated and uses proper heading hierarchy for clarity.

CSS Styling Strategy

- Single external stylesheet: style.css
- Layout:
 - Flexbox for header/nav and major sections
 - Max-width containers and auto margins for centering
- Responsive design:
 - Media queries adjust paddings, flex direction, and font sizes for smaller screens
 - Mobile-first approach with scalable units (rem, %)
- Visuals:

- Consistent use of purple for branding (header, buttons, highlights)
- Cards with subtle box-shadows and rounded corners for About/Contact/Booking
- Form elements styled for clarity and accessibility
- Hero section features bold colors, large typography

Key Features

Feature	Description
Responsive Layout	All sections adapt to desktop, tablet, and mobile screens
Flight Search Form	Lets users input departure, arrival, and date to simulate search
Navigation Bar	Persistent across pages, easy access to Home/About/Contact
Informational Cards	About and Contact presented as distinct, visually appealing cards
Booking Confirmation	Dedicated confirmation page mimics real airline UX
Visual Consistency	Unified color palette and spacing throughout

Challenges Faced & Solutions

Challenge	Solution
Navigation alignment on small screens	Used Flexbox and media queries for responsive header
Form element scaling	Relative units and max-width for input controls
Consistent card spacing	Standardized margins/paddings in CSS
Hero image cropping	Background-size: cover and centered text
Font readability	High contrast and scalable font-sizes

Outcome

- Delivered a polished, professional airline booking website front-end
- All main UX flows (home, search, about, contact, confirmation) are clear, visually distinct, and mobile-friendly
- Gained practical experience in semantic structure, responsive CSS, and minimalist UI/UX design

Future Enhancements

- Add JavaScript for real-time flight search, form validation, and feedback
- Integrate backend for live booking and user authentication
- Improve accessibility (keyboard navigation, ARIA labels)
- Add light/dark theme toggle and subtle CSS animations

Sample Code

a) Navigation Bar (index.html)

```
<header>
  <h1>ADJ Airlines</h1>
  <nav>
    <a href="index.html">Home</a>
    <a href="#about">About</a>
    <a href="#contact">Contact</a>
  </nav>
</header>
```

b) Booking Form (index.html)

```
<section class="booking-form">
  <h3>Book Your Flight</h3>
  <form action="flights.html" method="get">
    <label for="from">From:</label>
    <input type="text" id="from" name="from" required>
    <label for="to">To:</label>
    <input type="text" id="to" name="to" required>
    <label for="date">Date:</label>
    <input type="date" id="date" name="date" required>
    <button type="submit">Search Flights</button>
  </form>
</section>
```

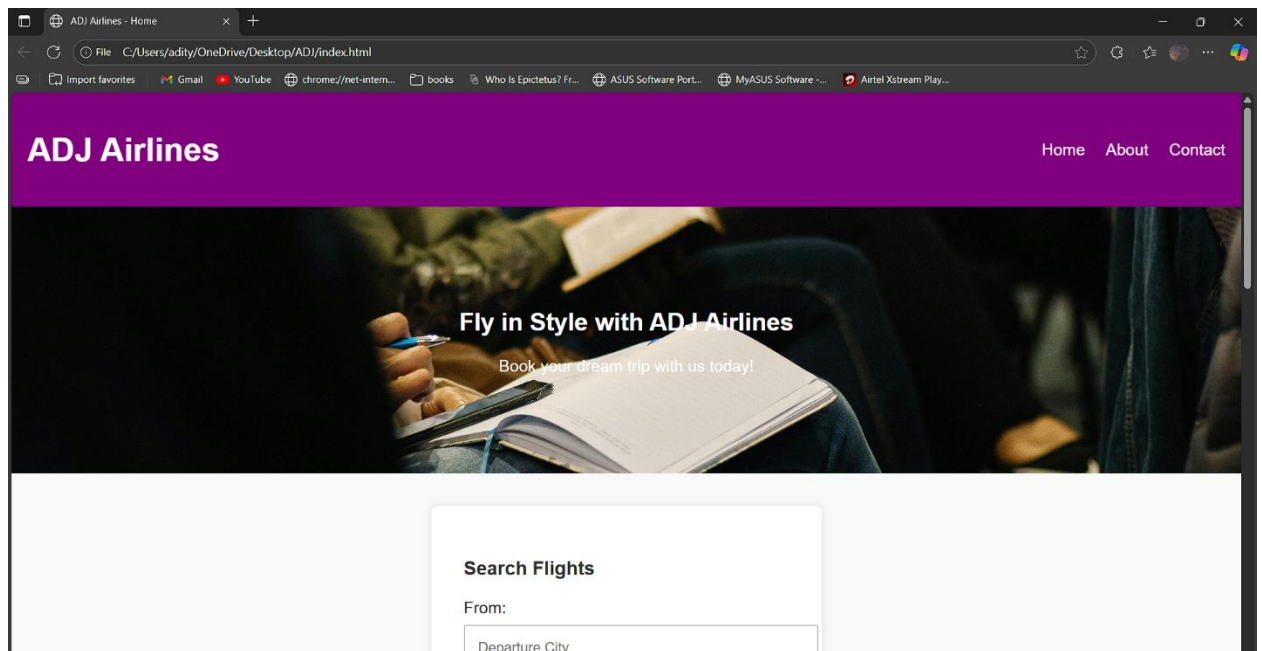
c) Card Layout and Responsive Hero (style.css)

```
header {
  background-color: #6a1b9a;
  color: #fff;
  padding: 1.2rem;
  display: flex;
  justify-content: space-between;
  align-items: center;
}
nav a {
  color: #fff;
  text-decoration: none;
```

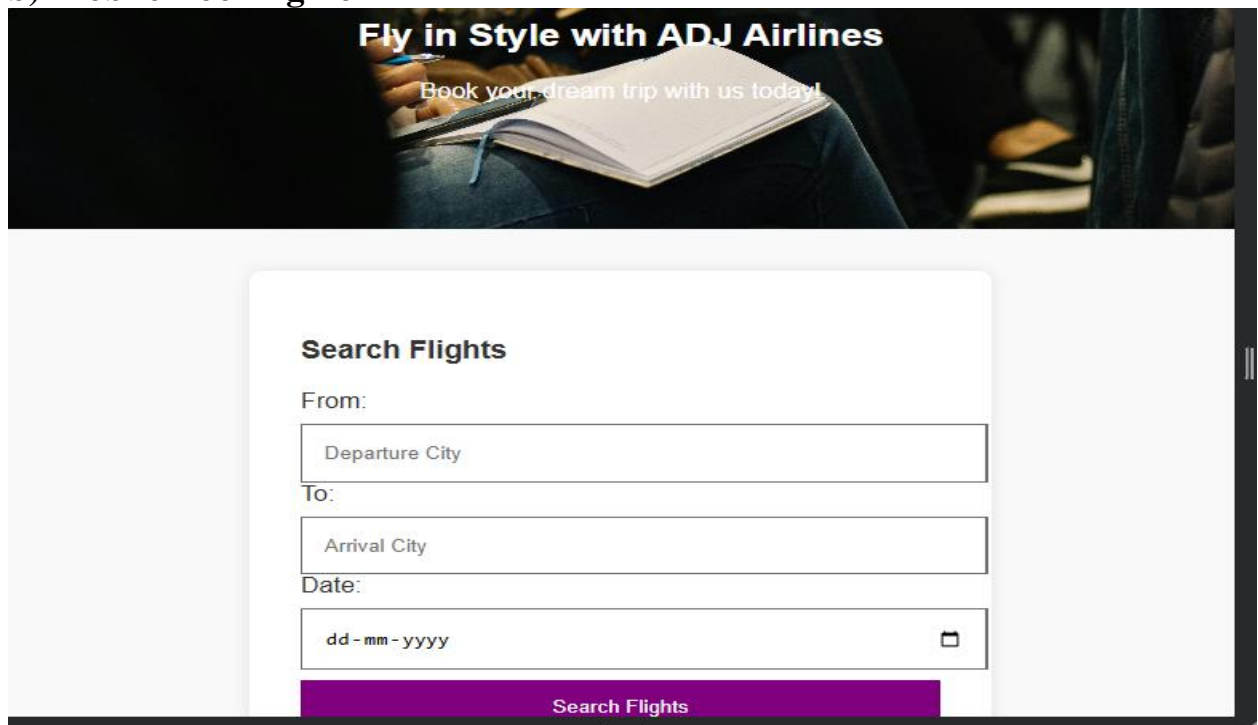
```
margin-left: 1.5rem;
font-weight: 500;
}
.hero {
background: #6a1b9a;
color: #fff;
text-align: center;
padding: 4rem 1rem;
}
.booking-form, #about, #contact {
background: #fff;
padding: 2rem;
margin: 2rem auto;
max-width: 400px;
border-radius: 12px;
box-shadow: 0 2px 18px rgba(106,27,154,0.08);
}
@media (max-width: 600px) {
header, .hero, .booking-form, #about, #contact {
padding: 1rem;
}
nav a {
margin-left: 0.7rem;
font-size: 1rem;
}
}
```


Screenshots of Final Output

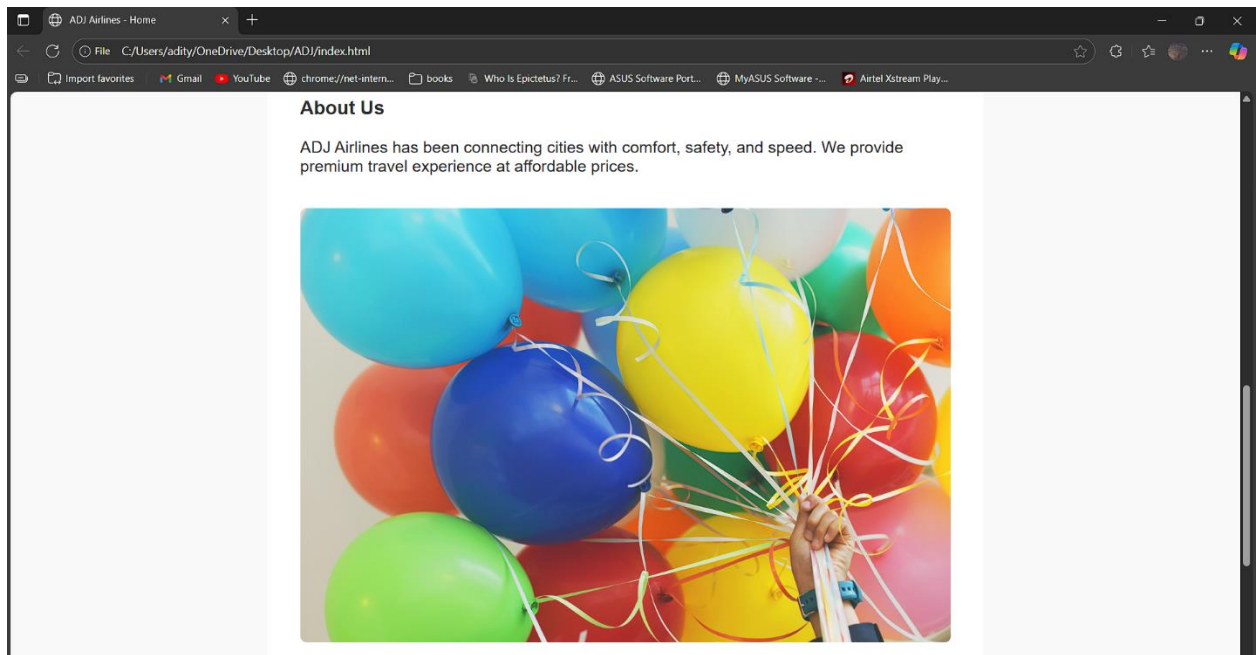
a) Homepage - Desktop View



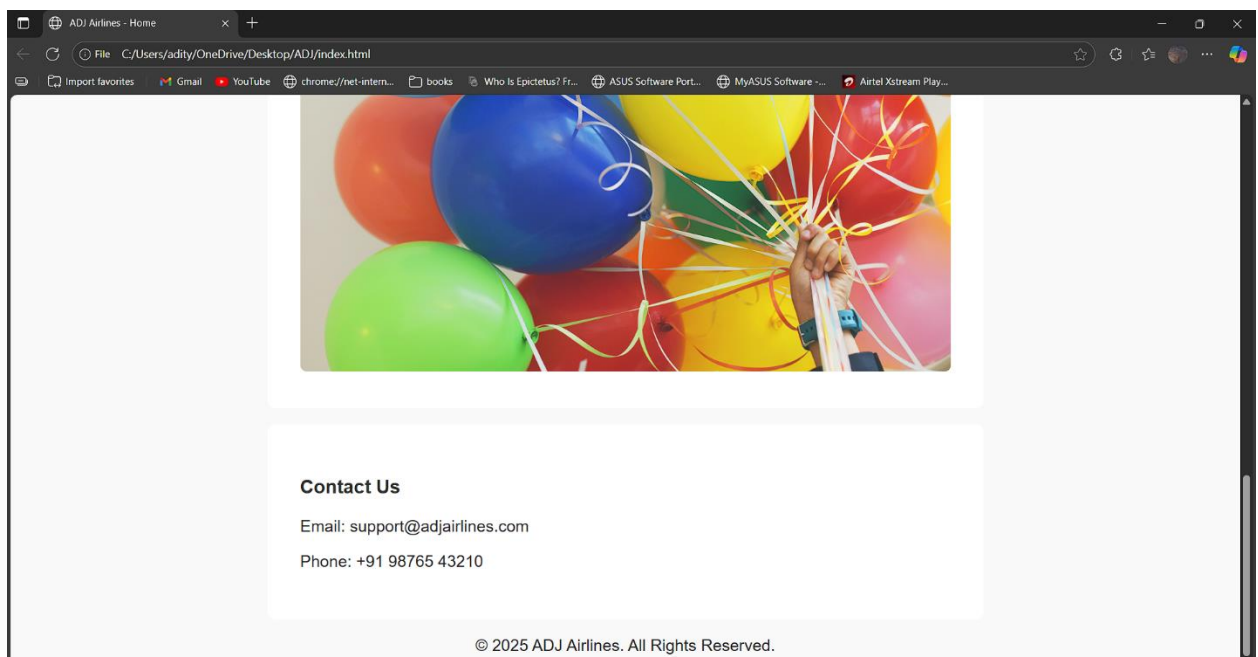
b) Mobile Booking Form



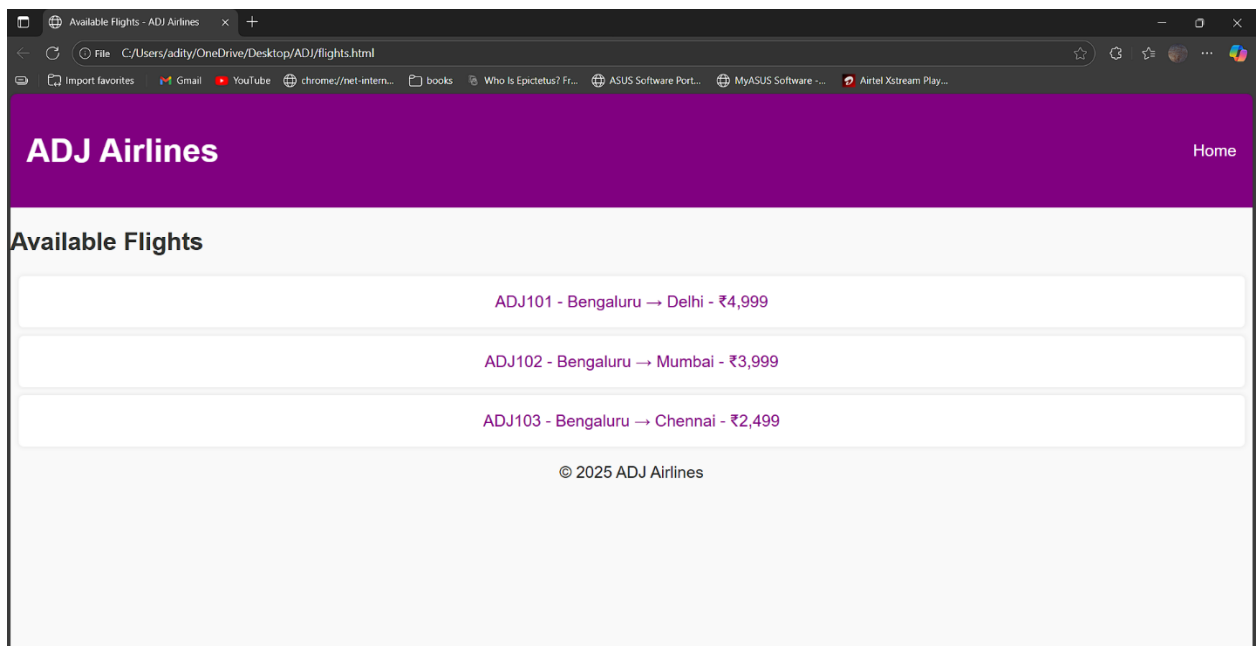
c) About Section



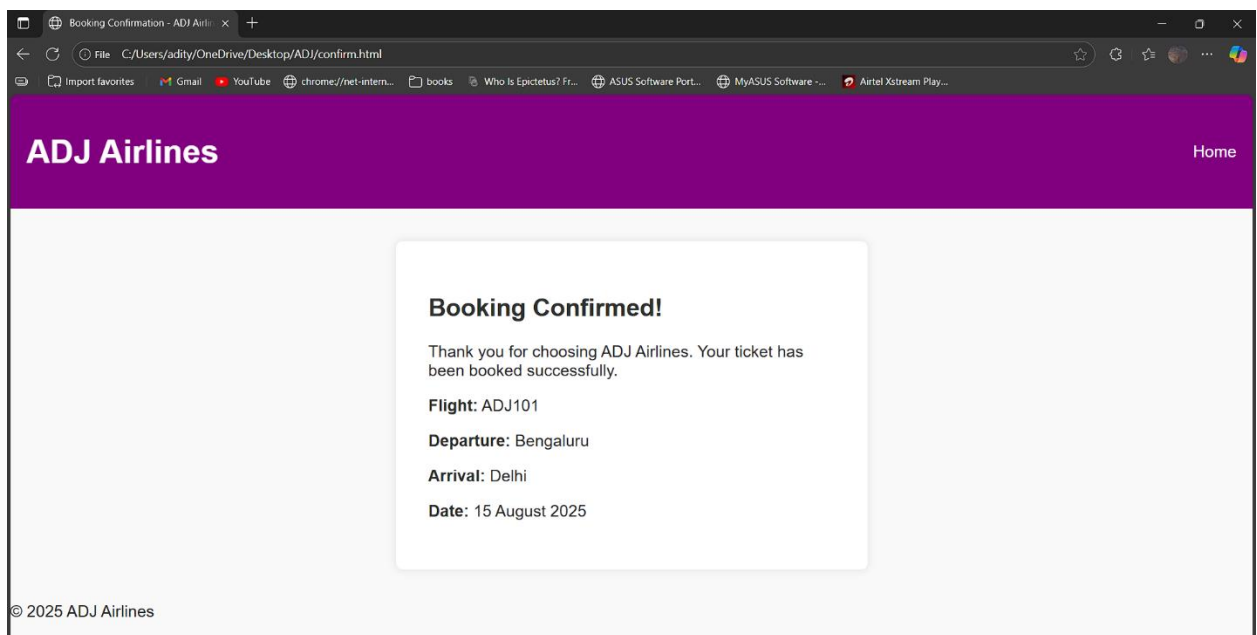
d) Contact Section



e) Available Flights (Search Results)



f) Booking Confirmation



Conclusion

The ADJ Airlines website demonstrates a robust, user-friendly flight booking interface built with semantic HTML5 and responsive CSS3. The project enhanced our understanding of web layouts, accessibility, and visual consistency without reliance on JavaScript or backend systems. The final result is a modern, visually engaging, and scalable front-end suitable for real-world airline UX with clear pathways for future expansion.

References

- L&T LMS: <https://learn.lntedutech.com/Landing/MyCourse>