# **SURANA COLLEGE**

# **AUTONOMOUS**

Re-Accredited by NAAC with A+ Grade #16, South End Road, Basavanagudi, Bengaluru-560004



# **A Project Report**

**on**

**AIRLINE MANAGEMENT**

Submitted to **Surana College Autonomous** as a partial requirement for the award of the degree

Bachelor of Computer Applications

Submitted by

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**NITHISH.S**

**U03ME23S0037**

**U03ME23S0052**

# **under the Guidance of**

**Prof. VIDYA .A**

**HOD, Department of Computer Science**

**SURANA COLLEGE AUTONOMOUS**

Re-Accredited by NAAC with A+ Grade #16, South End Road, Basavanagudi, Bengaluru-560004



***Certificate of Completion***

This is to certify that the project work entitled “***skill nest***” is a bonafide work carried out by Nithish S & Abhishek Vbearing Register No. U03ME23S0052 & U03ME23S0037, under the guidance of Ms.Vidya Ain partial fulfillment for the award of **Bachelor of Computer Applications** of SURANA COLLEGE AUTONOMOUS**,** during the year **2024-25**.

This project report has not been submitted earlier to any other university.

**Declaration :**

We Nithish S & Abhishek Vbearing UUCMS – U03ME23S0052 & U03ME23S0037, students of IV semester BCA, SURANA COLLEGE AUTONOMOUS, Bangalore, hereby declare that the project work entitled SkillNestsubmitted to SURANA COLLEGE AUTONOMOUS during the academic year 2024-2025, is a record of original work done by me under the guidance of Vidya A , HOD , Department of Computer Applications, SURANA COLLEGE AUTONOMOUS, Bangalore.

This project work is submitted in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications. The matter in this project is genuine work done by me and has not been submitted whether to this University or to any other University/Institute for the fulfillment of the requirements of any course of study.

Date: 02-05-2025 NITHISH S

ABHISHEK V

Place: Bengaluru U03ME23S0052

U03ME23S0037

# **ACKNOWLEDGEMENT**

<***You can include all names whomever you want to acknowledge>***

***DECLARATION***

***I Nitish A and Abhishek V bearing UUCMS\_number U03ME23S0052and U03ME23S0037 student of IV semester BCA, SURANA COLLEGE AUTONOMOUS, Bangalore, hereby declare that the project work entitled <project\_title> submitted to SURANA COLLEGE AUTONOMOUS during the academic year 2024-2025, is a record of original work done by me under the guidance of <faculty name>, <designation>, Department of Computer Applications, SURANA COLLEGE AUTONOMOUS, Bangalore.***

***This project work is submitted in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications. The matter in this project is genuine work done by me and has not been submitted whether to this University or to any other University/Institute for the fulfillment of the requirements of any course of study.***

***Date:02/05/2025***

***Place: Bengaluru***

**Nitish S Abhishek V**

**U03ME23S0052 U03ME23S037**

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**Problem statement :**

In the rapidly growing digital economy, freelancers and clients often face significant challenges in finding reliable, efficient, and secure platforms to collaborate. Many existing Airline Management are either overcrowded, charge high service fees, lack user-friendly interfaces, or do not effectively cater to the needs of both new and experienced users. As a result, struggle to showcase secure work, while clients face difficulties in identifying qualified professionals and managing projects smoothly.

There is a need for a well-structured, intuitive, and accessible Airline platform that bridges the gap between service offering seamless registration, skill-based job matching, secure communication, and transparent payment mechanisms. This project, *SkillNest*, aims to address these challenges by designing and developing a user-centric Airline Management website that fosters trust, ease of use, and efficient collaboration.

**Introduction**

The Airline Management System project aims to streamline and modernize airline operations by providing a comprehensive digital solution for managing flights, bookings, customers, and staff. The front-end design is a critical component of this project, serving as the primary interface between the users and the system’s functionalities. This user-facing interface was undertaken to ensure intuitive navigation, responsive design, and a seamless experience across devices. The design aligns with the broader goals of improving user satisfaction, reducing manual errors, and supporting digital transformation in the airline industry.

**Objectives**

The primary objectives of the front-end design project include:

- Designing a user-friendly interface for all user roles (admin, staff, customers).

- Ensuring mobile responsiveness and cross-browser compatibility.

- Implementing form validations and error-handling features.

- Creating an interactive UI that supports dynamic data rendering.

- Integrating front-end components with back-end APIs.

- Adhering to accessibility standards (WCAG).

**Technologies Used**

The front-end development of *SkillNest* was accomplished using a combination of web technologies that together provided a robust, responsive, and interactive user interface. Each technology played a specific role in achieving the overall design and functionality of the platform:

HTML5 : Markup Language - Provides semantic structure for web pages.

CSS3 : Tailwind CSS Styling and Layout Enables responsive and modern UI with utility-first classes.

JavaScript : Core Interactivity Used for DOM manipulation and client-side logic.

React.js : Front-End Framework Chosen for its component-based architecture and efficient rendering.

Axios : API Handling Used for communicating with back-end REST APIs.

Figma :UI/UX Design Utilized for prototyping and design mockups.

Git/GitHub Version Control For source code management and collaboration.

**Source Code**

**(first.html)**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<title>airline</title>

<style>

body{

background-image:url(/img/hhh.PNG);

background-size: cover;

}

.button-container {

display: flex;

justify-content: center;

margin-top: 20px;

}

.button-container a button {

background-color: #ffcc00;

color: black;

font-size: 18px;

padding: 12px 30px;

border: none;

border-radius: 8px;

cursor: pointer;

font-weight: bold;

transition: all 0.3s ease-in-out;

box-shadow: 0px 4px 6px rgba(0, 0, 0, 0.2);

}

.button-container a button:hover {

background-color: #ff9900;

transform: scale(1.1);

box-shadow: 0px 6px 10px rgba(0, 0, 0, 0.3);

}

h1{

font-size: 50px;

}

</style>

</head>

</html>

<body>

<header align="center" ><h1 >WELCOME TO N$A airlines</h1></header>

<h2 align="center">TIME TO FLY WITH US</h2>

<h1 align="center">ARE YOU READY </h1>

<h2 align="center">To Enjoy Safe Journey</h2>

<div class="button-container" >

<a href="login.html"> <button style="float:right;" >Click Here</button></a>

</div>

</body

</html>

**(LOGIN.HTML)**

<!DOCTYPE html>

<html>

<head>

<title>IT Project</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="css/style.css">

<script>

function handleSubmit(event){

event.preventDefault();

var username = document.querySelector("#username").value;

var password = document.querySelector("#password").value;

if(username.trim() === ""|| password.trim() === ""){

alert("please enter both username and password");

return;

}

console.log("Username",username);

console.log("Password",password);

alert("Login Successfull Click OK to continue");

window.location.href = "sample.html";

}

</script>

</head>

<body>

<div class="wrapper">

<form onsubmit="handleSubmit(event)">

<h1>Login</h1>

<div class="input-box">

<input type="text" id="username" placeholder="enter your username" >

</div>

<div class="input-box">

<input type="password" id="password" placeholder="enter your password " >

</div>

<div class="remember-forgot">

<label>

<input type="checkbox" >Remember me</label>

<a href="#" >Forgot password?</a>

</div>

<pre> <button type="submit""> Submit</button> <button> rest</button></pre>

<div class="register-link">

<p>don't you have a account ?<a href="signup.html" color:black;>Signup</a></p>

</div>

</form>

</div>

</body>

</html>

**(Style.css)**

@import uRL('https://fonts.googleapis.com/css?family=Roboto:400,700');

{

margin 0;

padding: 0;

box-sizing: border-box;

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

}

body {

display: flex;

justify-content: center;

align-items: center;

min-height: 100vh;

background-image: url(/img/first.png);

background-size: cover;

}

.wrapper {

width: 400px;

background:transparent;

border:2px solid rgba(255,255,255,0.5);

color: black;

border-radius: 10px;

padding: 30px 40px;

}

.wrapper h1{

font-size: 30px;

text-align: center;

}

.wrapper .input-box{

width: 100%;

height: 40px;

margin: 30px 0;

}

.input-box input{

width: 90%;

height: 80%;

border-radius: 40px;

}

.wrapper .remember-forgot{

display: flex;

justify-content: space-between;

font-size: 14.5px;

margin: -15px 0 15px;

}

.remember-forgot a{

color:black;

}

.wrapper .register-link{

text-align: center;

font-size: 14.5px;

margin:20px 0 15px;

}

.register-link p a{

color: black;

text-decoration: none;

font-weight: 600;

}

**(Signup.html)**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Register</title>

<link rel="stylesheet" href="/css/style3.css">

<script>

document.addEventListener("DOMContentLoaded", function () {

document.querySelector("form").addEventListener("submit", function(event) {

event.preventDefault(); // Prevent default form submission (stops page reload)

// Get form values

let firstName = document.querySelector("input[placeholder='Firstname']").value.trim();

let lastName = document.querySelector("input[placeholder='Lastname']").value.trim();

let email = document.querySelector("input[placeholder='Email']").value.trim();

let password = document.querySelector("input[placeholder='Password']").value;

let confirmPassword = document.querySelector("input[placeholder='Confirm password']").value;

// Validate fields are not empty

if (!firstName || !lastName || !email || !password || !confirmPassword) {

alert("Please fill in all fields.");

return;

}

// Validate passwords match

if (password !== confirmPassword) {

alert("Passwords do not match!");

return;

}

// Save data to local storage

let userData = { firstName, lastName, email, password };

localStorage.setItem("user", JSON.stringify(userData));

// Show confirmation and redirect on OK

alert("Signup successful!");

});

});

</script>

</head>

<body>

<div class="container">

<h2>Register</h2>

<p>Signup now and get full access to our app.</p>

<form>

<div class="name-fields">

<input type="text" placeholder="Firstname" required>

<input type="text" placeholder="Lastname" required>

</div>

<input type="email" placeholder="Email" required>

<div class="password-field">

<input type="password" placeholder="Password" required>

<span class="eye-icon">👁</span>

</div>

<div class="password-field">

<input type="password" placeholder="Confirm password" required>

<span class="eye-icon">👁</span>

</div>

<button type="submit">Submit</button>

</form>

</div>

</body>

</html>

**(Style3.css)**

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

font-family: Arial, sans-serif;

}

body {

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

background-image: url(/img/sign1.png.png);

background-size: cover;

}

.container {

background:transparent;

color: black;

padding: 30px;

border-radius: 10px;

width: 350px;

text-align: center;

border:2px solid black;

backdrop-filter: blur(10px);

}

h2 {

color: #2ecc71;

}

p {

margin-bottom: 15px;

}

form {

display: flex;

flex-direction: column;

}

.name-fields {

display: flex;

justify-content: space-between;

}

.name-fields input {

width: 48%;

}

input {

width: 100%;

padding: 10px;

margin: 5px 0;

border: none;

border-radius: 5px;

}

.password-field {

position: relative;

}

.eye-icon {

position: absolute;

right: 10px;

top: 50%;

transform: translateY(-50%);

cursor: pointer;

}

button {

background: #2ecc71;

border: none;

padding: 10px;

color:black;

font-size: 16px;

cursor: pointer;

margin-top: 10px;

border-radius: 5px;

}

.signin-text {

margin-top: 15px;

}

.signin-text a {

color: #2ecc71;

text-decoration: none;

}

**(Sample.html)**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Airline Website</title>

<link rel="stylesheet" href="css/style2.css">

<style>

/\* Navbar styling \*/

.navbar {

display: flex;

align-items: center;

justify-content: space-between;

padding: 10px 50px;

background-color: #f8f9fa;

}

.navbar ul {

list-style: none;

display: flex;

}

.navbar ul li {

margin: 0 15px;

}

.navbar ul li a {

text-decoration: none;

font-size: 18px;

color: black;

}

/\* Positioning and animation for H1 \*/

h1 {

font-size: 50px;

text-align: left;

margin-left: 50px;

animation: fadeSlide 2s ease-in-out;

}

/\* Positioning and animation for H3 \*/

h3 {

font-size: 20px;

text-align: left;

margin-left: 50px;

animation: fadeSlide 3s ease-in-out;

}

/\* Keyframes for animation \*/

@keyframes fadeSlide {

0% {

opacity: 0;

transform: translateX(-50px);

}

100% {

opacity: 1;

transform: translateX(0);

}

}

</style>

</head>

<body>

<div class="navbar">

<img src="/img/logo1.PNG" class="logo" width="150px" height="90px">

<ul>

<li><a href="#">HOME</a></li>

<li><a href="offer.html">OFFERS</a></li>

<li><a href="prat.html">CATEGORIES</a></li>

<li><a href="book.html">BOOKING</a></li>

<li><a href="home.html">ABOUT US</a></li>

</ul>

</div>

<!-- Heading with Animation (Left-aligned) -->

<h1>HI, WHERE WOULD <br>

YOU LIKE TO GO?</h1>

<h3>Discover amazing destinations and travel experiences.<br>Book your next adventure with us.</h3>

</body>

</html>

**(Style2.css)**

body{

background-image: url(/img/final.png.jpg);

background-size: cover;

}

.navbar{

width: 85%;

padding:35px 0;

display: flex;

align-items: center;

justify-content: space-between;

color: black;

}

.logo{

width:120px ;

cursor: pointer;

margin: 20px;

}

.navbar ul li{

list-style: none;

display: inline-block;

margin:0 20px;

color: black;

}

.navbar ul li a{

text-decoration: none;

color: black;

text-transform: uppercase;

}

**(Home.html)**

<!DOCTYPE html>

<html>

<head>

<title>About Us</title>

<style>

body {

background: linear-gradient(to bottom, #e6f7ff, #ffffff);

margin: 0;

padding: 0;

font-family: Arial, sans-serif;

}

.home-link {

font-size: 28px;

color: black;

text-decoration: none;

font-weight: bold;

}

h1 {

display: inline;

font-size: 28px;

margin-left: 5px;

}

.container {

width: 80%;

margin: 0 auto;

padding: 20px;

}

.image-container {

width: 100%;

max-width: 900px;

margin: 0 auto;

overflow: hidden;

border-radius: 20px;

box-shadow: 0px 4px 10px rgba(0, 0, 0, 0.2);

}

.image-container img {

width: 100%;

height: 250px;

border-radius: 20px;

display: block;

}

h4 {

font-size: 24px;

margin-top: 20px;

}

p {

font-size: 18px;

text-align: justify;

margin: 10px 20px;

}

.why-choose-us p {

margin-left: 20px;

text-align: left;

}

.contact-section {

text-align: center;

margin-top: 30px;

}

.contact-section h5 {

margin: 5px 0;

}

</style>

</head>

<body>

<a href="sample.html" class="home-link">HOME ></a>

<h1>About Us</h1>

<div class="image-container">

<img src="/img/sky.png.jpg" alt="about">

</div>

<h4>ABOUT US</h4>

<p>

Welcome to N$A Airlines, your trusted partner in air travel, offering exceptional service and connectivity worldwide.

</p>

<p>

At N$A Airlines, we are committed to providing a seamless and enjoyable flying experience for all our passengers.

Whether you're flying for business or leisure, we offer a wide range of destinations and services to suit your needs.

</p>

<p>

With years of industry experience, we prioritize safety, comfort, and reliability, ensuring that every journey with us is a memorable one.

From our modern fleet of aircraft to our dedicated customer support team, we are here to make your travel experience as smooth as possible.

</p>

<h1>WHY CHOOSE US?</h1>

<div class="why-choose-us">

<p>\* Extensive Network – Connecting you to global destinations.</p>

<p>\* Customer-Focused Service – Ensuring your comfort and satisfaction every step of the way.</p>

<p>\* Flexible Travel Options – Convenient booking and affordable pricing.</p>

<p>\* Commitment to Safety – Strict safety measures and top-tier in-flight service.</p>

</div>

<div class="contact-section">

<h1>CONTACT US</h1>

<h5>✉ Email: N$Aairline@bangalore.com</h5>

<h5>📍 Location: Kempegowda Airport, Bangalore, India</h5>

<h5>📞 Phone: +080667 85555</h5>

</div>

</body>

</html>

**(Prat.html)**

**</html>**<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>About Us | Airline</title>

<style>

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

background-color: #f4f4f4;

}

.header {

background-color: #004080;

color: white;

padding: 20px;

text-align: center;

cursor: pointer;

}

.container {

width: 80%;

margin: 20px auto;

background: whitesmoke;

padding: 20px;

border-radius: 8px;

box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);

border: 2px solid black;

}

.categories {

display: flex;

justify-content: space-around;

flex-wrap: wrap;

}

.category {

width: 30%;

background: #e0e0e0;

padding: 15px;

margin: 10px;

text-align: center;

border-radius: 5px;

box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.2);

border: 2px solid #004080;

}

.category img {

width: 100%;

height: 200px;

object-fit: cover;

border-radius: 5px;

}

.category button {

background-color: #004080;

color: white;

padding: 10px;

border: none;

border-radius: 5px;

cursor: pointer;

}

.category button:hover {

background-color: #002050;

}

#about-container {

display: none;

}

@media (max-width: 768px) {

.category, .frame {

width: 100%;

}

}

</style>

<script>

function toggleAbout() {

var aboutSection = document.getElementById("about-container");

if (aboutSection.style.display === "none" || aboutSection.style.display === "") {

aboutSection.style.display = "block";

} else {

aboutSection.style.display = "none";

}

}

</script>

</head>

<body>

<div class="header" onclick="toggleAbout()">

<h1>Welcome to Our Airline</h1>

<p>Tap here to learn more about us</p>

</div>

<div id="about-container" class="container">

<h2>About Us</h2>

<p>We are a leading airline company committed to providing world-class travel experiences with comfort and safety. Our mission is to connect people across the globe with efficient and enjoyable flights.</p>

</div>

<div class="container">

<h2>Categories</h2>

<div class="categories">

<div class="category">

<h3>Domestic Flights</h3>

<img src="/img/dom.png.png" alt="Domestic Flight">

<p>Travel conveniently within the country with our top-class domestic flights.</p>

<p><button>Rate: $150 - $500</button></p>

</div>

<div class="category">

<h3>International Flights</h3>

<img src="/img/int.png.png" alt="International Flight">

<p>Explore the world with our extensive network of international routes.</p>

<p><button>Rate: $500 - $2000</button></p>

</div>

<div class="category">

<h3>Luxury & Business Class</h3>

<img src="/img/lux.png.jpg" alt="Luxury Flight">

<p>Experience the ultimate in comfort with our premium seating options.</p>

<p><button> Rate: $2000 - $5000</button></p>

</div>

</div>

</div>

</body>

**(Book.html)**

<!DOCTYPE html>

<html>

<head>

<title>book</title>

</head>

<style>

body {

background-image: url(/img/his.jpg);

background-size: cover;

}

h1 {

color:blanchedalmond;

text-shadow: 2px 2px 4px rgba(0, 0, 0, 0.7);

font-size: 36px;

text-decoration: underline;

text-align: center;

padding-top: 20px;

}

h2{

color: blanchedalmond;

text-shadow: 2px 2px 4px rgba(0, 0, 0, 0.7);

font-size: 26px;

}

h3{

color: blanchedalmond;

text-shadow: 2px 2px 4px rgba(0, 0, 0, 0.7);

font-size: 26px;

}

button{

background-color: orange;

color: white;

padding: 10px 20px;

border: none;

border-radius: 5px;

cursor: pointer;

}

button:hover {

background-color: darkorange;

}

</style>

<body>

<h1>Explore</h1>

<h2 style="color:blanchedalmond;">BOOK NON STOP DIRECT FLIGHTS</h2>

<h3>

Travel faster and enjoy more of your journey. Our extensive <br>nonstop network links

India to top destinations across Asia, <br> Australia, Europe, the Middle East, North America, and beyond.

</h3>

<a href="book2.html"><button>BOOKNOW</button></a>

</body>

</html>

**(Book2.html)**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Flight Deals</title>

<style>

body {

font-family: Arial, sans-serif;

background-color: #f8f9fa;

margin: 0;

padding: 0;

}

/\* Header Section \*/

.header {

display: flex;

align-items: center;

padding: 15px 20px;

background: linear-gradient(90deg, #0052D4, #4364F7, #6FB1FC);

box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.2);

}

.logo img {

width: 120px;

height: auto;

border-radius: 8px;

background-color: white;

padding: 8px;

}

/\* Flight Cards \*/

.flight-card-container {

display: flex;

justify-content: center;

flex-wrap: wrap;

gap: 20px;

padding: 40px;

}

.flight-card {

width: 280px;

background: white;

border-radius: 10px;

overflow: hidden;

box-shadow: 0 5px 15px rgba(0, 0, 0, 0.2);

transition: transform 0.3s ease;

}

.flight-card:hover {

transform: scale(1.05);

}

.flight-card img {

width: 100%;

height: 160px;

object-fit: cover;

}

.flight-card-details {

padding: 15px;

text-align: center;

}

.flight-card-details h3 {

margin: 10px 0;

font-size: 1.2em;

color: #333;

}

.flight-card-details p {

margin: 5px 0;

font-size: 0.95em;

color: #555;

}

.flight-card-price {

font-size: 1.3em;

font-weight: bold;

color: #D32F2F;

}

/\* Book Now Button \*/

.flight-card-button {

background: linear-gradient(90deg, #FF512F, #DD2476);

color: white;

padding: 12px;

border: none;

border-radius: 6px;

cursor: pointer;

width: 90%;

margin: 10px auto;

display: block;

font-size: 1em;

text-transform: uppercase;

font-weight: bold;

transition: background 0.3s;

}

.flight-card-button:hover {

background: linear-gradient(90deg, #DD2476, #FF512F);

}

hr {

border: 0;

height: 1px;

background: #ddd;

margin: 20px 0;

}

</style>

</head>

<body>

<!-- Header Section -->

<div class="header">

<div class="logo">

<img src="/img/lo.jpg" alt="NSA The Laar Miprant Logo">

</div>

</div>

<hr>

<!-- Flight Deals Section -->

<div class="flight-card-container">

<div class="flight-card">

<img src="/img/del.jpg" alt="Mumbai to Delhi">

<div class="flight-card-details">

<h3>Mumbai (BOM) to Delhi (DEL)</h3>

<p>Depart: 30 Mar 2025</p>

<p class="flight-card-price">INR 5,406\*</p>

<p>One Way / Economy Class</p>

<a href="book3.html"><button class="flight-card-button">Book Now</button></a>

</div>

</div>

<div class="flight-card">

<img src="/img/dub.png.jpg" alt="Bangalore to Dubai">

<div class="flight-card-details">

<h3>Bangalore (BLR) to Dubai (DXB)</h3>

<p>Depart: 30 Mar 2025</p>

<p class="flight-card-price">INR 95,445\*</p>

<p>One Way / Economy Class</p>

<a href="book3.html"><button class="flight-card-button">Book Now</button></a>

</div>

</div>

<div class="flight-card">

<img src="/img/los.png.jpg" alt="Bangalore to New York">

<div class="flight-card-details">

<h3>Bangalore (BLR) to New York (NY)</h3>

<p>Depart: 11 Apr 2025</p>

<p class="flight-card-price">INR 99,157\*</p>

<p>One Way / Economy Class</p>

<a href="book3.html"><button class="flight-card-button">Book Now</button></a>

</div>

</div>

<br>

<div class="flight-card">

<img src="/img/bag.jpeg" alt="Delhi to Bangalore">

<div class="flight-card-details">

<h3>Delhi (DEL) to Bangalore (BLR)</h3>

<p>Depart: 28 Apr 2025</p>

<p class="flight-card-price">INR 6,550\*</p>

<p>One Way / Economy Class</p>

<a href="book3.html"> <button class="flight-card-button">Book Now</button></a>

</div>

</div>

<div class="flight-card">

<img src="/img/jap.jpeg" alt="Bangalore to Japan">

<div class="flight-card-details">

<h3> Bangalore (BLR) to Japan (JP)</h3>

<p>Depart: 11 Apr 2025</p>

<p class="flight-card-price">INR 66,365\*</p>

<p>One Way / Economy Class</p>

<a href="book3.html"><button class="flight-card-button">Book Now</button></a>

</div>

</div>

<div class="flight-card">

<img src="/img/van.jpg" alt="Delhi to Vancouver">

<div class="flight-card-details">

<h3>Delhi (DEL) to Vancouver (YVR)</h3>

<p>Depart: 26 Apr 2025</p>

<p class="flight-card-price">INR 95,445\*</p>

<p>One Way / Economy Class</p>

<a href="book3.html"><button class="flight-card-button">Book Now</button></a>

</div>

</div>

</div>

</body>

</html>

**(Book3.html)**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Small Booking Form</title>

<link rel="stylesheet" href="css/style4.css">

<script>

document.addEventListener("DOMContentLoaded", function () {

document.querySelector("form").addEventListener("submit", function(event) {

event.preventDefault(); // Prevent default form submission

// Get form values

let tripType = document.querySelector("input[name='tripType']:checked").value;

let departure = document.getElementById("departure").value.trim();

let arrival = document.getElementById("arrival").value.trim();

let departureDate = document.getElementById("departureDate").value;

let returnDate = document.getElementById("returnDate").value;

let adults = document.getElementById("adults").value;

let seniors = document.getElementById("seniors").value;

// Validate required fields

if (!departure || !arrival || !departureDate || !adults) {

alert("Please fill in all required fields.");

return;

}

// Save data to local storage

let bookingData = { tripType, departure, arrival, departureDate, returnDate, adults, seniors };

localStorage.setItem("booking", JSON.stringify(bookingData));

// Show confirmation and redirect

alert("Booking saved successfully!");

});

});

</script>

</head>

<body>

<div class="form-container">

<h1> Booking Form</h1>

<p>Fly with us, your journey begins here!</p>

<form>

<div class="form-row">

<label>Trip Type</label>

<div class="radio-group">

<input type="radio" id="roundtrip" name="tripType" value="roundtrip" checked>

<label for="roundtrip">Round Trip</label>

<input type="radio" id="oneway" name="tripType" value="oneway">

<label for="oneway">One Way</label>

</div>

</div>

<div class="form-row">

<label for="departure">Departure</label>

<input type="text" id="departure" placeholder="Comodoro City or Airport Code">

</div>

<div class="form-row">

<label for="arrival">Arrival</label>

<input type="text" id="arrival" placeholder="Arrival City or Airport Code">

</div>

<div class="form-row">

<label for="departureDate">Departure Date</label>

<input type="date" id="departureDate">

</div>

<div class="form-row">

<label for="returnDate">Return Date</label>

<input type="date" id="returnDate">

</div>

<div class="form-row">

<label for="adults">Adults</label>

<select id="adults">

<option value="">Please Select</option>

<option value="1">1</option>

<option value="2">2</option>

<option value="3">3</option>

</select>

</div>

<div class="form-row">

<label for="seniors">Seniors</label>

<select id="seniors">

<option value="">Please Select</option>

<option value="0">0</option>

<option value="1">1</option>

<option value="2">2</option>

</select>

</div>

<button type="submit">Submit</button>

</form>

</div>

</body>

</html>

**(Style4.css)**

body {

font-family: sans-serif;

background: linear-gradient(to bottom, #87CEEB, #FFFFFF); /\* Sky gradient \*/

display: flex;

justify-content: center;

align-items: center;

min-height: 100vh;

margin: 0;

}

.form-container {

background-color: rgba(255, 255, 255, 0.9); /\* Semi-transparent white \*/

padding: 30px;

border-radius: 10px;

box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

width:900px; /\* Adjust as needed \*/

}

h1 {

text-align: center;

margin-bottom: 10px;

}

p {

text-align: center;

margin-bottom: 20px;

color: #555;

}

.form-row {

margin-bottom: 15px;

}

label {

display: block;

margin-bottom: 5px;

font-weight: bold;

}

input[type="text"],

input[type="date"],

select {

width: calc(100% - 22px); /\* Adjust for padding and border \*/

padding: 10px;

border: 1px solid #ccc;

border-radius: 5px;

box-sizing: border-box; /\* Include padding and border in width \*/

}

.radio-group label {

display: inline-block;

margin-right: 15px;

font-weight: normal;

}

button[type="submit"] {

background-color: #007bff; /\* Blue button \*/

color: white;

padding: 12px 20px;

border: none;

border-radius: 5px;

cursor: pointer;

width: 100%;

font-size: 16px;

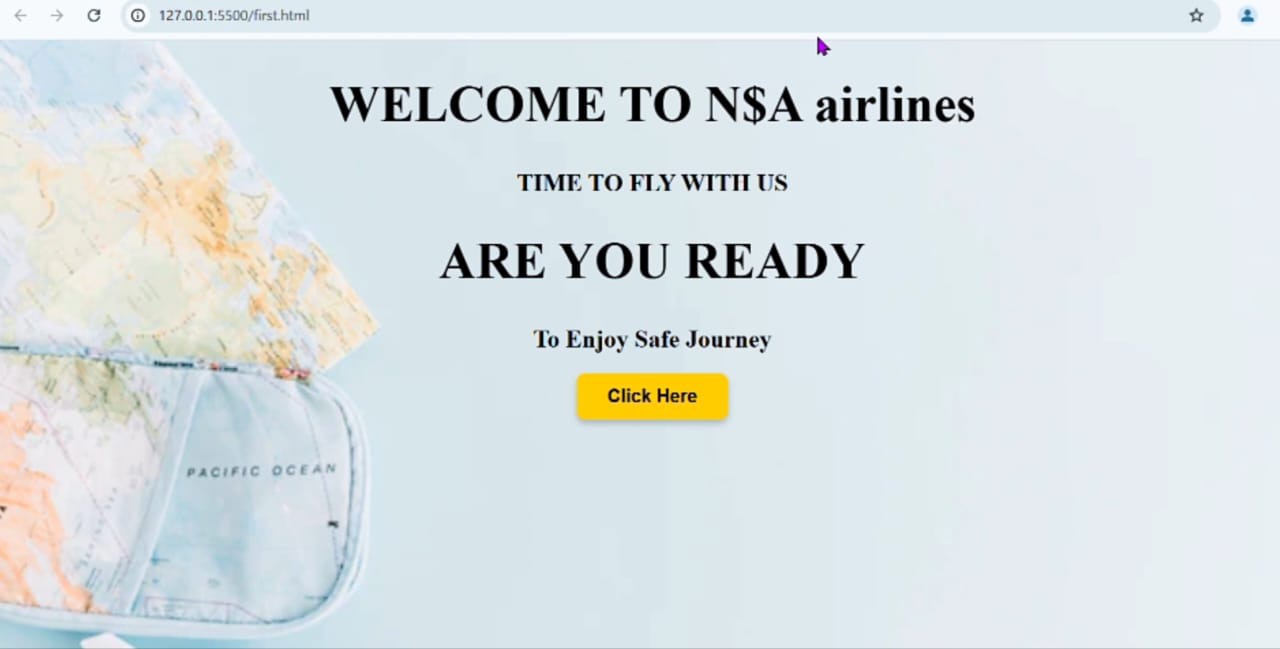
}

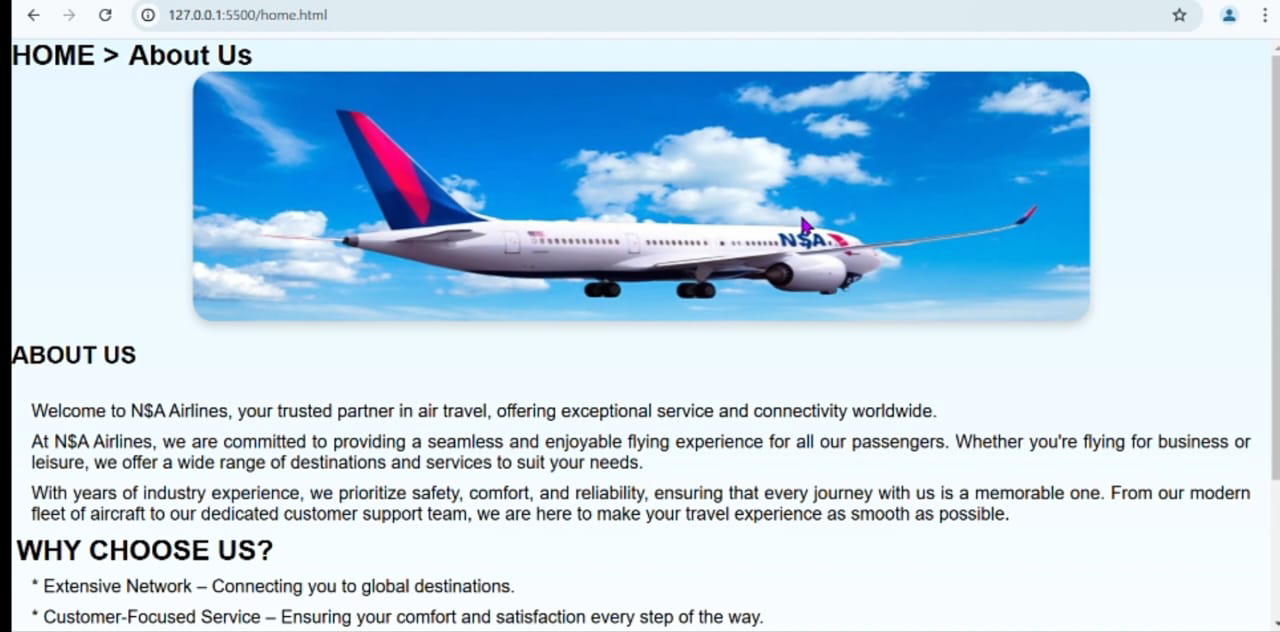
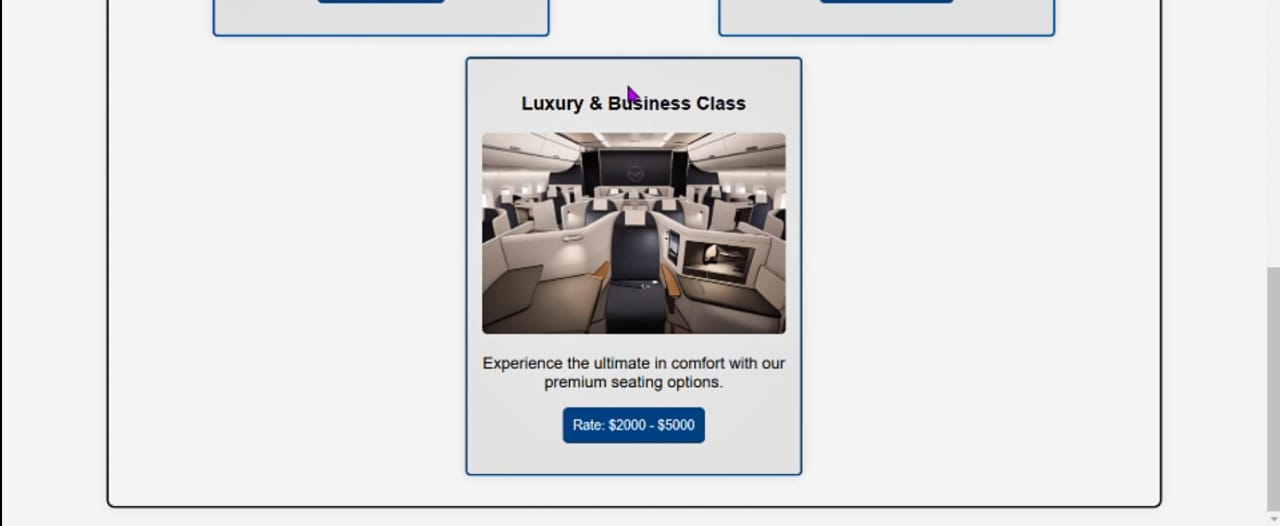
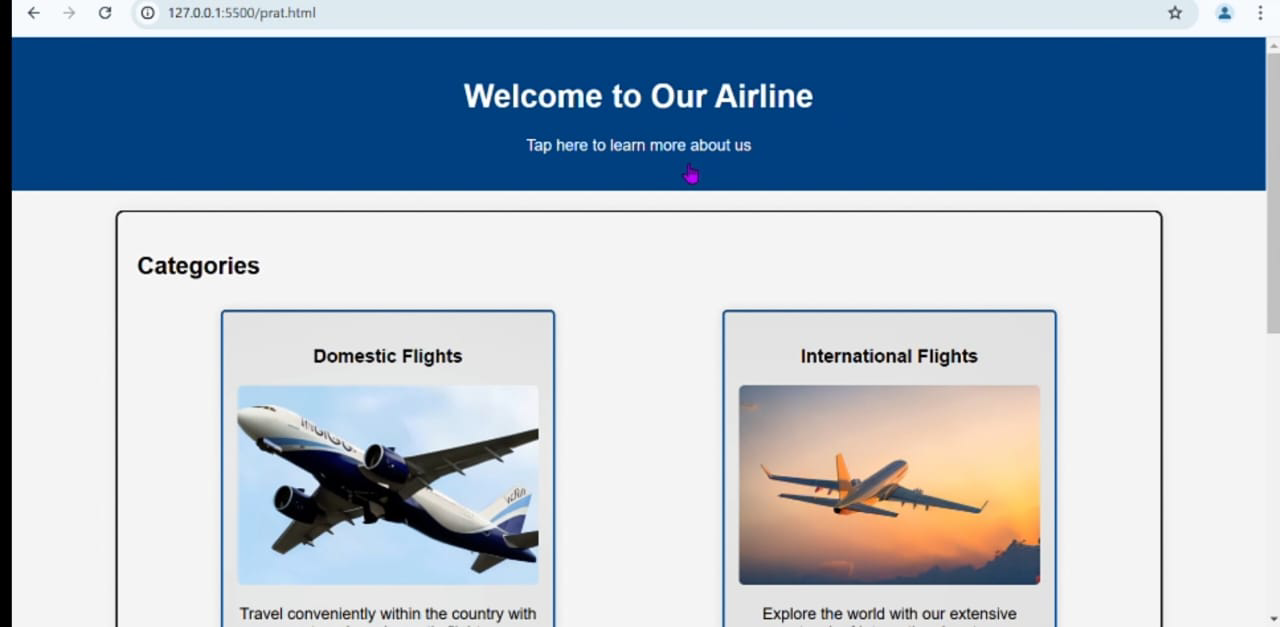
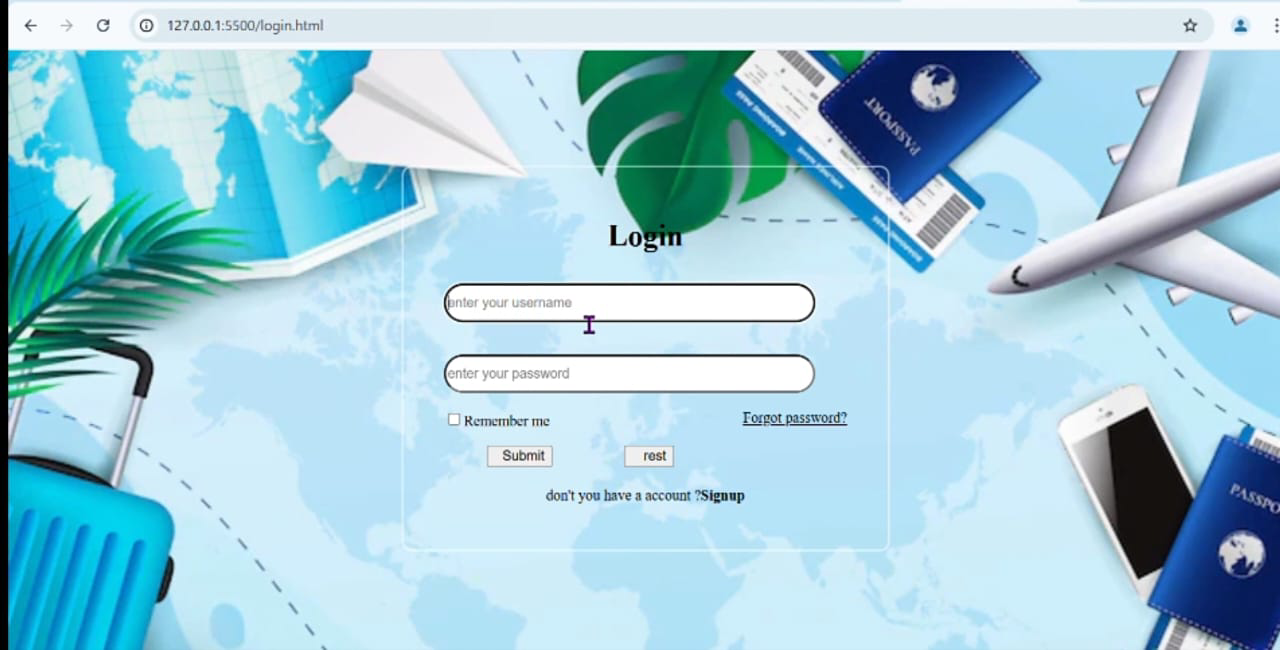
button[type="submit"]:hover {

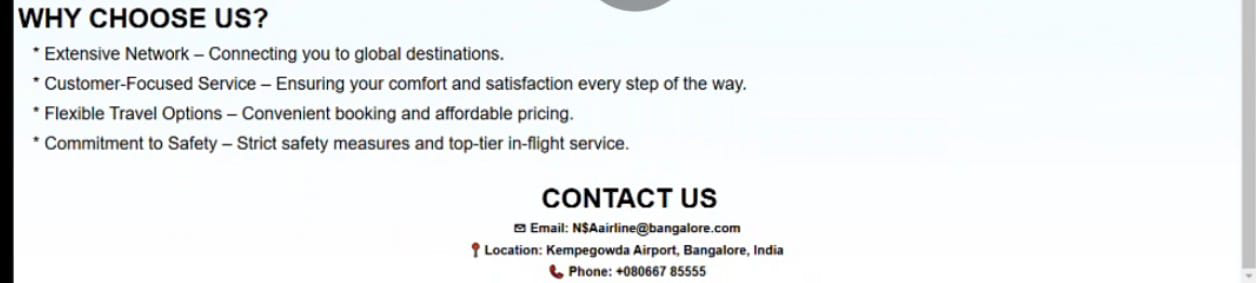
background-color: #0056b3; /\* Darker blue on hover \*/

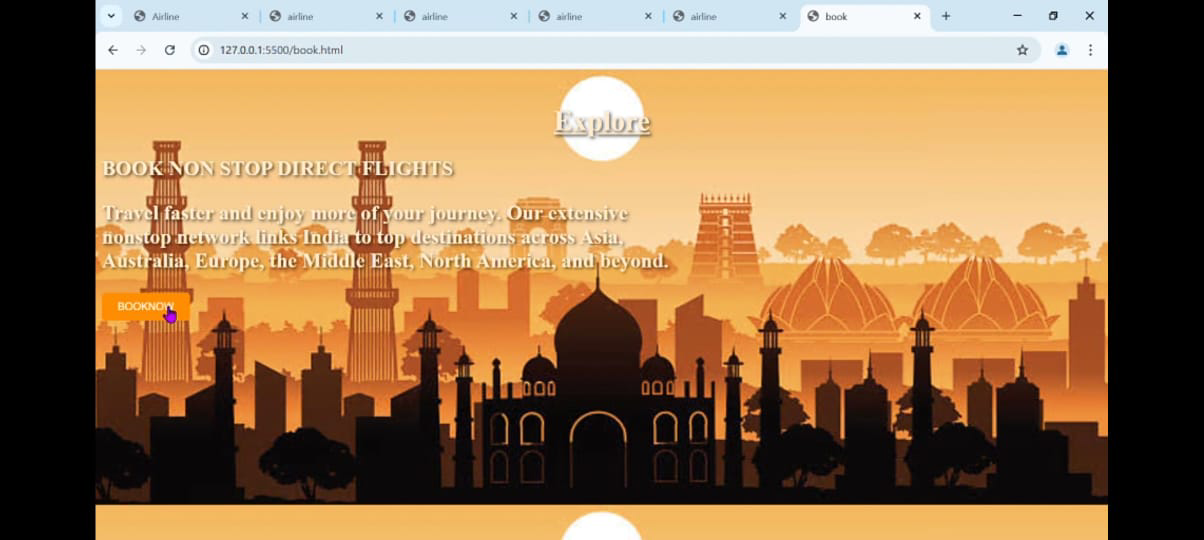
}

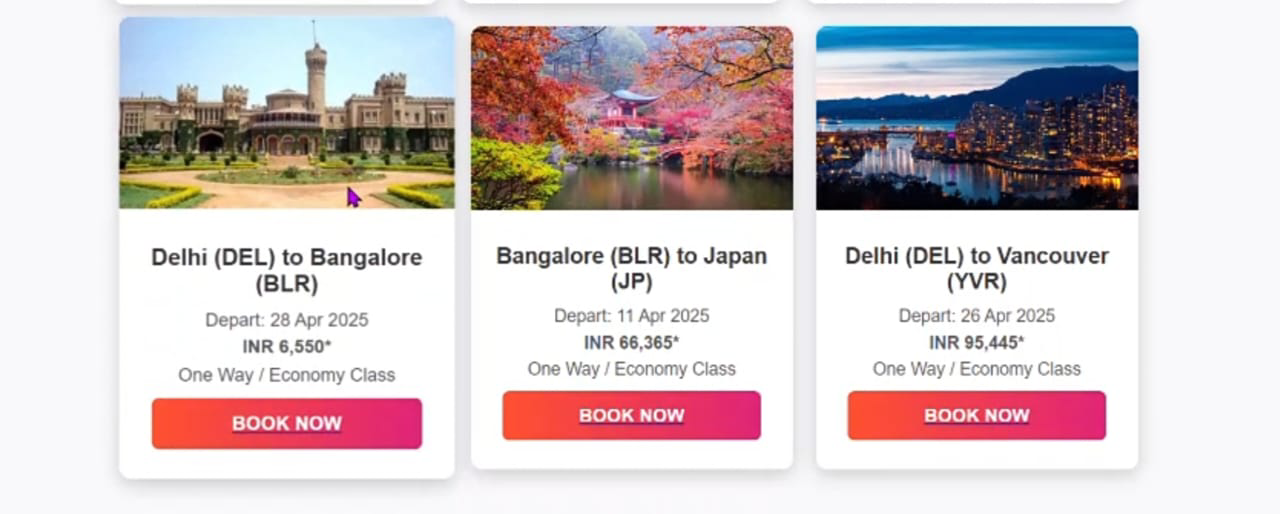
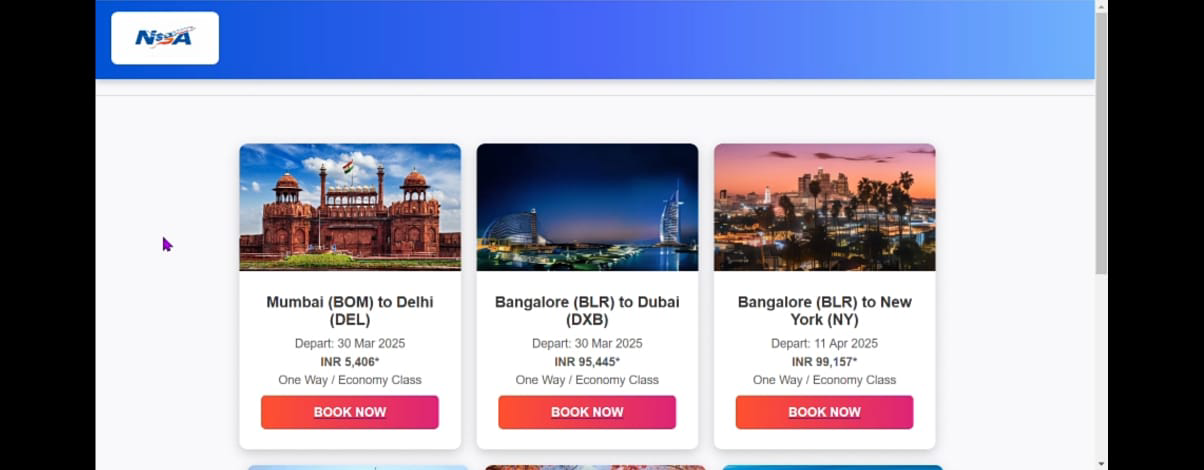
**(Sample Screens) :**

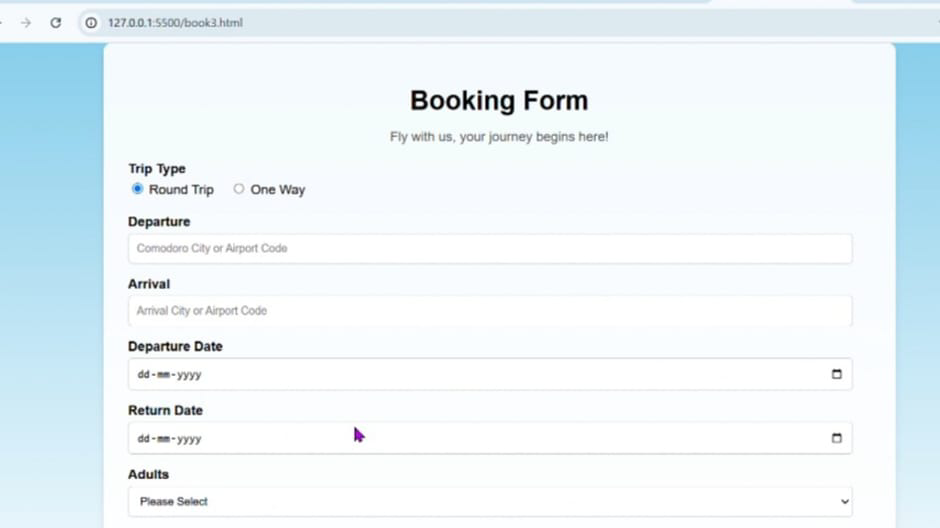
****

****

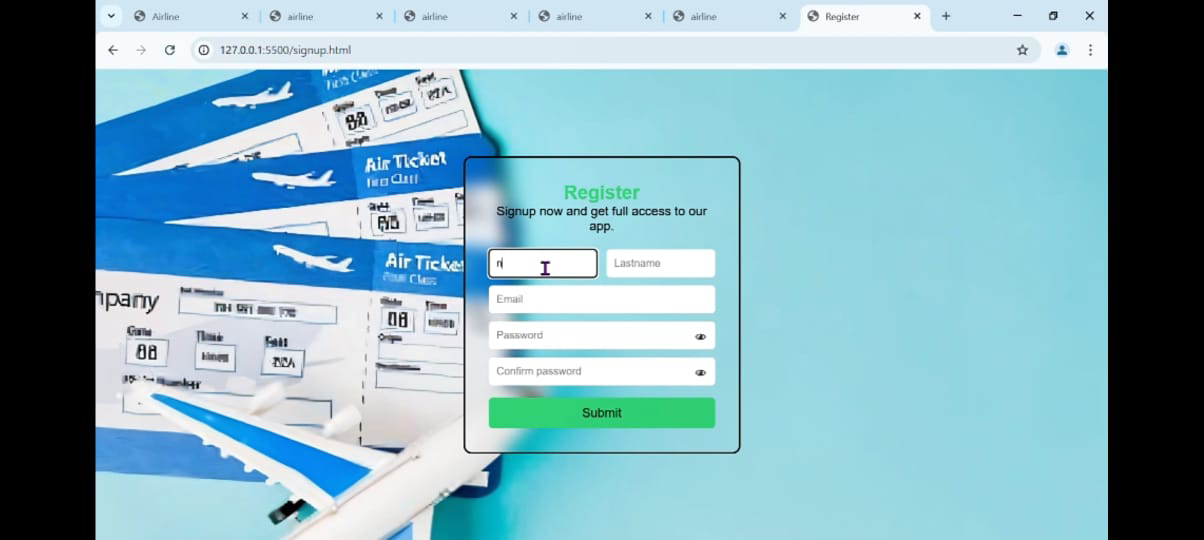
****

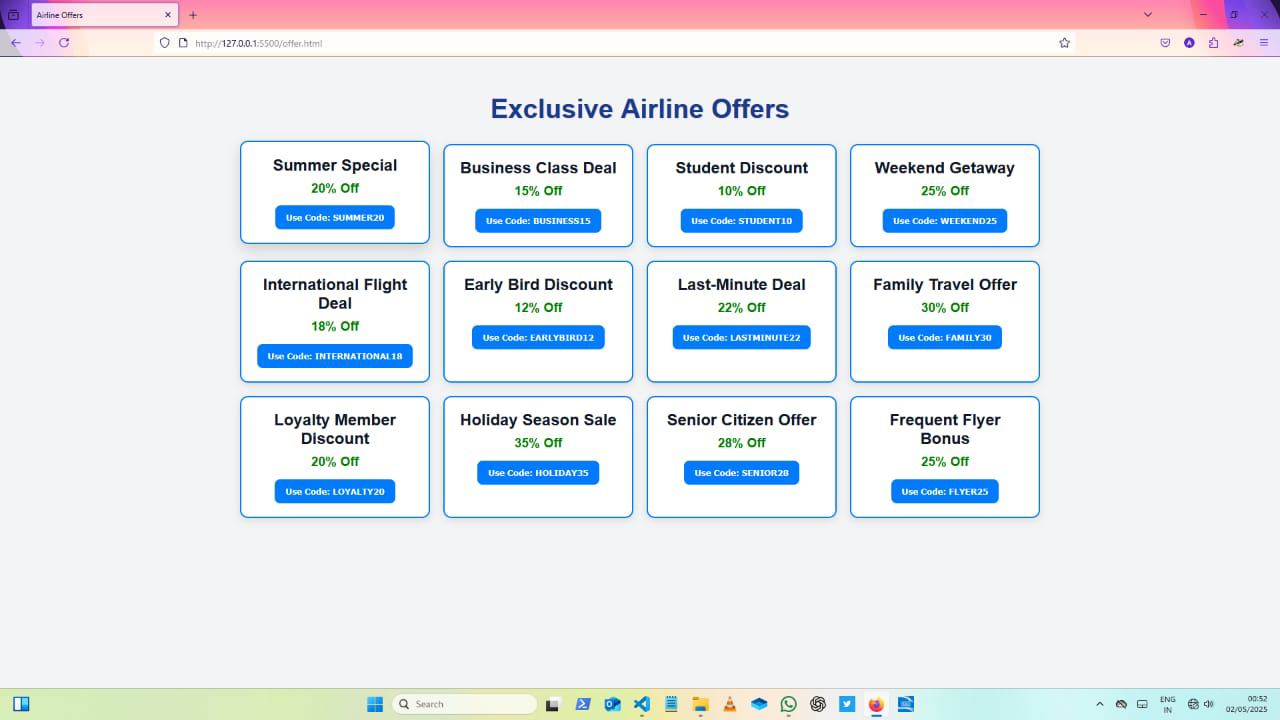
****

****





****

****

**front-end design successfully delivered a functional and user-centric interface for the Airline Management System. Key results include:**

**- Positive feedback from pilot users regarding ease of navigation.**

**- faster task completion time compared to the legacy interface.**

**- Fully responsive design across mobile, tablet, and desktop devices.**

**- Improved system usability score (SUS)**

**6. Future Recommendations\*\***

**To further enhance the front-end design, the following are recommended:**

**- Integrate Progressive Web App (PWA) capabilities for offline usage.**

**- Improve accessibility with ARIA roles and screen reader compatibility.**

**- Introduce dark/light mode toggle for better usability.**

**- Implement automated UI testing (e.g., with Cypress or Jest).**

**- Localize the UI for multilingual support.**

**7. References**

**- MDN Web Docs – [HTML/CSS/JS Guides](https://developer.mozilla.org/)**

**- React Documentation – https://reactjs.org/**

**- Tailwind CSS Documentation – https://tailwindcss.com/docs**

**- Nielsen Norman Group – Usability Principles**

**- W3C WCAG Guidelines – https://www.w3.org/WAI/standards-guidelines/wcag/**

**8. Appendices**

**- 📄 Sample Code Snippets**

**- 🖼️ UI Design Mockups (Figma)**

**- 📊 Usability Testing Reports**

**- 🧪 Validation and Error Handling Demonstrations**

**I would like to express my heartfelt gratitude to all those who contributed to the successful completion of this IT project.**

**First and foremost, I sincerely thank my teachers and mentors for their continuous guidance, support, and encouragement. Their insights and feedback played a vital role in shaping the direction and success of this project.**

**I would also like to acknowledge the contributions from the open-source community on GitHub. The shared resources, sample code, and collaborative knowledge available through various repositories greatly aided my learning and implementation process.**

**Lastly, I am grateful to everyone who supported me, directly or indirectly, in bringing this project to fruition.**

**---**

**Great! Here's a draft structure for your \*\*IT Project Report on Airline Management System\*\*, including suggested content under each heading:**

**---**

**### \*\*1. Problem Statement\*\***

**Modern airlines require efficient, reliable, and user-friendly systems to manage reservations, flight schedules, passenger details, and ticketing. Traditional methods or poorly integrated systems lead to operational inefficiencies, delayed responses, and customer dissatisfaction. This project addresses the need for a comprehensive airline management system to streamline operations and enhance user experience.**

**---**

**### \*\*2. Introduction\*\***

**The Airline Management System is a software solution designed to manage all operations of an airline. This includes booking, ticketing, flight scheduling, passenger management, and reporting. The system helps reduce manual workload, increase accuracy, and provide real-time updates. It serves both the airline staff and passengers, enhancing productivity and customer service.**

**---**

**### \*\*3. Objectives\*\***

**- To develop a centralized system for managing airline operations.**

**- To automate the process of booking and ticketing.**

**- To allow passengers to view and manage their bookings online.**

**- To ensure data security and access control for sensitive information.**

**- To generate reports for flight schedules, passenger details, and revenue.**

**---**

**### \*\*4. Technologies Used\*\***

**- \*\*Frontend:\*\* HTML, CSS, JavaScript (React.js or Angular)**

**- \*\*Backend:\*\* Node.js / Java / Python (Django or Flask)**

**- \*\*Database:\*\* MySQL / PostgreSQL / MongoDB**

**- \*\*Server:\*\* Apache / Nginx**

**- \*\*Tools:\*\* Git, VS Code, Postman**

**- \*\*Hosting/Deployment:\*\* AWS / Heroku / Firebase**

**---**

**### \*\*5. Source Code\*\***

**> The full source code for the project is hosted on GitHub:**

**[GitHub Repository Link]**

**\*Include a few key files or code snippets here if required.\***

**---**

**6. Sample Screens:**

**Include screenshots of the key features:**

**- Login Page**

**- Flight Search and Booking Page**

**- Admin Dashboard**

**- Flight Schedule View**

**- Ticket Generation Page**

**(\*Add brief captions to explain each screen.\*)**

**---**

**### \*\*7. Future Recommendations\*\***

**- Integrate real-time flight tracking using third-party APIs.**

**- Add multilingual and multi-currency support.**

**- Enable biometric authentication for check-ins.**

**- Develop a mobile app for iOS and Android.**

**- Incorporate AI for dynamic pricing and passenger analytics.**

**---**

**### \*\*8. References\*\***

**- Airline data APIs (e.g., Amadeus, Skyscanner)**

**- Documentation from technologies used (e.g., Django Docs, React Docs)**

**- Books and tutorials on airline reservation systems**

**- Online forums like Stack Overflow, GitHub discussions**

**---**

**### \*\*9. Appendices\*\***

**- ER Diagrams**

**- Flowcharts or System Architecture Diagrams**

**- Test Cases and Results**

**- User Manual**

**- Installation Guide**

**---**

**15:55 01/05/2025**

# **DECLARATION**

I < ***ABHISHEK.V , NITHISH.S>*** bearing <***U03ME23S037,U03ME23S0052>***, student of IV semester BCA, SURANA COLLEGE AUTONOMOUS, Bangalore, hereby declare that the project work entitled < **AIRLINE MANAGEMENT*>*** submitted to SURANA COLLEGE AUTONOMOUS during the academic year 2023-2024, is a record of original work done by me under the guidance of ***<PROF.VIDYA>***, <***HOD>***, Department of Computer Applications, SURANA COLLEGE AUTONOMOUS, Bangalore.

This project work is submitted in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications. The matter in this project is genuine work done by me and has not been submitted whether to this University or to any other University/Institute for the fulfillment of the requirements of any course of study.

Date: < ***ABHISHEK.V ,NITHISH.S >***

Place: Bengaluru <***U03ME23S0037***>

U03ME23S0052

# **ACKNOWLEDGEMENT**

<***You can include all names whomever you want to acknowledge>***

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**Introduction**

Introduce the project, its context, and its significance. Explain why the front-end design was undertaken and its relationship to broader project goals.

**Objectives**

Outline the specific goals and objectives of the front-end design project. These objectives should be clear, measurable, and aligned with the overall project objectives.

**Technologies Used**

List the technologies, frameworks, libraries, and tools used for front-end development. Provide brief explanations of why each technology was chosen and its role in the project.

**Source Code**

**Results**

Present the results of front-end design efforts, including user feedback, metrics, and any improvements in key performance indicators (KPIs). Use visual aids such as screenshots or analytics charts to illustrate outcomes.

**Future Recommendations**

Provide recommendations for future iterations or improvements to the front-end design. This could include suggestions for enhancing user experience, adding new features, or optimizing performance further.

**References**

List any sources cited throughout the report, including design resources, technical documentation, and research studies.

**Appendices**

Include any additional materials that support the findings and outcomes of the front-end design project, such as code snippets, design mockups, or usability testing reports.