# Introduction

FlyAway is a comprehensive airline ticket-booking portal designed to make booking flights convenient, efficient, and hassle-free. It is an intuitive web application that allows users to easily search for flights, choose their preferred airlines, and book their flights securely and quickly. FlyAway is an excellent choice for individuals, families, and businesses that are looking for a user-friendly platform to book their flights with ease.

The application offers a user-friendly interface that allows users to easily enter their travel details, including the date of travel, source, destination, and the number of persons. Based on these details, the portal displays a list of available flights with their ticket prices. Users can choose their preferred airline and flight and proceed to the booking page, where they need to enter their personal details. The payment is made via a dummy payment gateway, and on completion of the payment, the user is provided with a confirmation page containing the details of their booking.

FlyAway is designed to meet the needs of a wide range of customers, including business travellers, tourists, and families. The application offers an extensive list of airlines and destinations to choose from, making it easy for users to find flights that meet their specific needs. The master list of places for source and destination, master list of airlines, and a list of flights with their respective sources, destinations, airlines, and ticket prices make it easy for users to search for flights and book them quickly.

# Developer Details

Amit Kumar Shah is a Full Stack Java Bootcamp student who has recently completed a comprehensive course in Full Stack Development. With a strong foundation in Java programming and front-end technologies such as HTML, CSS, and JavaScript, Amit has the skills and knowledge required to develop robust and scalable web applications.

Amit is passionate about programming and always strives to stay up-to-date with the latest technologies and best practices in the field. He is highly motivated and possesses excellent problem-solving skills, which allows him to effectively identify and resolve issues in a timely manner.

Throughout his training, Amit has gained hands-on experience working on various projects, including building responsive websites, developing dynamic web applications, and implementing complex algorithms. He has also worked on several group projects, where he has demonstrated strong team collaboration and communication skills.

Amit's technical skills include proficiency in Java, Spring Boot, Hibernate, React, Angular, and Node.js. He is also well-versed in database design and management, as well as version control using Git.

If you would like to learn more about Amit's skills and experience, or discuss potential project opportunities, please don't hesitate to reach out to him via email at [amitshah99m@gmail.com](mailto:amitshah99m@gmail.com).

# Sprint Planning

## Sprint 1:

1. Sprint Planning: The first step is to plan the first sprint, which involves identifying the tasks and goals for the sprint. In this sprint, the primary focus will be on the homepage search form and displaying available flights based on user input.
2. Homepage Search Form: Design and develop a search form on the homepage to allow users to enter their travel details, such as date of travel, source, destination, and number of persons.
3. Backend Development: Develop backend code to retrieve and display available flights based on the user's input.
4. Testing and Debugging: Perform testing and debugging to ensure the search form and flight display functionality is working correctly.
5. Documentation: Document the sprint's progress and update the flowchart as necessary.

## Sprint 2:

1. Sprint Planning: The second sprint involves implementing the flight booking and payment process.
2. Flight Selection and Registration: Design and develop the flight selection and registration process. Once the user selects a flight to book, they will be taken to a registration page to fill in their personal details.
3. Payment Gateway Integration: Integrate a dummy payment gateway for payment processing.
4. Confirmation Page: After successful payment, display a confirmation page with booking details.
5. Testing and Debugging: Perform testing and debugging to ensure the flight booking and payment functionality is working correctly.
6. Documentation: Document the sprint's progress and update the flowchart as necessary.

## Sprint 3:

1. Sprint Planning: The third sprint involves implementing the admin backend features.
2. Admin Login: Design and develop an admin login page where the admin can change their password after login if they wish.
3. Master List Development: Develop a master list of places for source and destination, a master list of airlines, and a list of flights where each flight has a source, destination, airline, and ticket price.
4. Testing and Debugging: Perform testing and debugging to ensure the admin backend functionality is working correctly.
5. Documentation: Document the sprint's progress and update the flowchart as necessary.

## Product Release:

1. Final Testing: Perform final testing to ensure all functionality is working correctly.
2. Source Code Optimization: Implement appropriate concepts such as exceptions, collections, and sorting techniques to optimize the source code for increased performance.
3. Deployment: Deploy the application on the webserver.
4. Documentation: Prepare documentation on how to use the application and provide user support.
5. Release: Release the FlyAway airline booking portal to the public.