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Online Travel Ticket Booking System

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Abstract: *The Online Ticket Booking System is a ticket reserving system that provides asingle platform for all forms of ticket booking for traveling. Unless individualities step intothe trip agent business to buy the tickets and to check the timings as in the former point.The launch of the Online Ticket reserving System addresses this issue. This design would give guests with an option to bespeak tickets online and to search online for evidence. Guests can bespeak airline tickets, Bus tickets, train tickets using this operation. The user can also cancel or update their reservation at any time before the Boarding Time. It alsoprovides some specified area's local public transport details. The user can book cab for Local transportation.*

Key Word: *Online – Transport – Ticket – Travel.*

I.INTRODUCTION

The online travel ticket booking system has revolutionized the travel industry by providing travelers with an efficient and convenient way to book tickets for various modes of transport. This system has made it possible for travelers to book travel tickets online from the comfort of their homes or offices, saving them time and effort. The system supports three major modes of transport, including flights, trains, and buses. With the online travel ticket booking system, travelers can easily search for and compare different travel options, including departure and arrival times, ticket prices, and available seats. The system also provides travelers with the flexibility to modify or cancel their bookings, all while ensuring secure and reliable transactions through integration with various payment gateways. In recent years, the online travel ticket booking system has become increasingly popular among traveler's due to its user-friendly interface, fast and efficient booking process, and round-the-clock availability. With the convenience and flexibility offered by this system, travelers can easily plan and manage their travel itineraries, making it an essential tool for the modern traveler. The online ticket booking system also provides a secure and reliable payment gateway for booking and payment processing, ensuring that users' financial information remains safe and protected. Moreover, the system allows travelers to modify or cancel their bookings and obtain real-time status updates on their travel itineraries. With the online ticket booking system for three modes of transport, travelers can enjoy an effortless and seamless booking experience, eliminating the need to visit travel agencies or stand in long queues. The system has become increasingly popular among travelers, making it an indispensable tool for the travel industry.

Scope of the Project:

The scope of the project is creating an application to reserve ticket for three modes of transport and local cab facilities. And give details about the local public transport details like buses in the application. Need for this Project: There are several reasons why an online ticket booking system for three modes of transport, including flights, trains, and buses, is necessary. Firstly, it provides convenience to travelers as they can easily search and book tickets from anywhere and at any time. This eliminates the need to visit travel agencies or stand in long queues, saving travelers time and effort. Secondly, the online ticket booking system provides real-time availability of seats, enabling travelers to compare different travel options and select the one that suits their preferences and budget. This feature saves travelers the trouble of making multiple inquiries and saves them from the possibility of missing out on a preferred travel option due to limited availability. Finally, the online ticket booking system has become increasingly popular among travelers, making it an essential tool for the travel industry. It has transformed the way people book tickets for travel, providing them with a fast, convenient, and efficient booking process.

Functional Requirements:

- User must secure internet connection to book the tickets.
- Every online booking needs to be associated with an account.
- One account cannot be associated with multiple users.
- Search results should enable users to find the most recent and relevant booking options.
- System should enable users to book / pay for their tickets only in a timeboxed manner after tickets being added to the cart.
- System should only allow users to move to payment only when mandatory fields such as date, time, location has been mentioned.
- Booking confirmation should be sent to user to the specified contact details.

Non-Functional Requirements:

- Search results should show with acceptable time limits.
- User should have to fill in the mandatory fields.
- System should accept payments via different payment methods like Credit/Debit Card, UPI, Net banking, etc.
- The system should send the registration details to the User's registered Contact details.

II.PROPOSED METHODOLOGY

The following attributes should be present in the suggested system:

High scalability: The system should have no performance issues while handling a high number of users and flight options.

Flexibility: The system should be able to adapt to new features, adjustments, and changes in business requirements.

Simple upkeep: It should be simple to update and maintain the system. Rapid search: The system must be able to conduct quick and effective searches across a sizable amount of flight data.

User Experience: Providing customers with a seamless and user-friendly experience is one of the key issues that aircraft ticket purchasing systems encounter.

Performance: Providing quick and responsive search results, particularly when working with enormous numbers of flight data, is a difficult for systems that book airline tickets. Lazy loading, caching, and other approaches can be utilized with Angular to optimizefront-end performance, speed up load times, and enhance user experience.

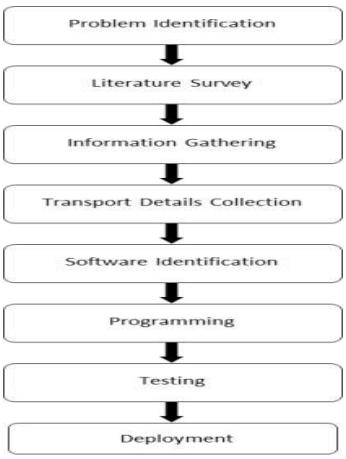
Software Used:

- Eclipse IDE
- Microsoft SQL Server
- Microsoft SQL Server Management Studio

Programming Language used:

- Java – for Logical Programming
- Java Swing – for Front-End
- SQL – for database

Proposed System:



As a result of the intricate structure of the brain, finding a brain tumour is challenging. The brain regulates the actions of every organ in the body. A key component is automatic initial stage brain tumour categorization utilising deep learning and machine learning methods. These devices allow for quick diagnosis and increase the likelihood that patients will survive. These techniques also assist experts and radiologists in making decisions about diagnoses and treatment strategies. In order to classify brain malignancies using the MR brain tumour image dataset, this work presented the CNN-based hybrid deep learning model CNN-RNN. The image dataset was initially processed using thresholding, extreme point computation, and bicubic interpolation. Second, the suggested model extracts features from cropped photos using a convolutional neural network. Accuracy, precision, recall, and F1-measure are the four metrics that are used to assess the performance of the model. The suggested model yields the best outcome, obtaining 99.1% accuracy, 98.8% precision, 98.9% recall, and 99.0% F1-measure. The outcomes demonstrated that the suggested model is the most effective at identifying MR brain pictures. Then model is fed into Angular and Flask Framework for Front-End. However, it is important to note that further research and testing may be necessary to ensure the accuracy and reliability of this method in different populations and settings.

Some of the key features of Java Swing include:

Components: Swing provides a wide range of components such as buttons, labels, text fields, text areas, lists, tables, and more thatcan be used to create user interfaces.

Look and feel: Swing provides a pluggable look-and-feel architecture, which means that developers can choose from different styles of GUIs, such as Windows, Mac OS, or Linux.

Layout managers: Swing provides a range of layout managers that enable developers to arrange the components on the screen in a flexible and responsive manner.

Event handling: Swing provides an event handling framework that enables developers to create event listeners and respond to user actions, such as button clicks or menu selections.

Accessibility: Swing provides built-in support for accessibility, allowing developers to create user interfaces that are accessible to users with disabilities.

Customization: Swing provides a high degree of customization, allowing developers to create their own components, look and feel, and even modify the behavior of existing components.

Overall, Java Swing is a powerful and flexible toolkit for creating desktop applications in Java. It provides a wide range of components, layout managers, and event handling frameworks that enable developers to create professional looking and interactive user interfaces.

III.CONCLUSION

The world of today is progressing. People are beginning to move from one location to another without having any prior knowledge of the local transport. To survive, they have placed their faith in technology. In addition to its scientific significance, technology offers enormous potential to reduce labor costs in many real-world contexts, including academic communication and international commercial negotiation. This study demonstrates how effectively we travel without any fear about the local transportation.

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