FLIGHT TICKET BOOKING APP

This ppt is presented for flight booking app using MERN stack

(submitted by Nadhiya & team members)

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Introduction:

- The airplane ticket booking and management system is a modern web application designed to streamline the process of booking and managing flight

- By leveraging the MERN stack(MongoDB,Express.js,React.js,Node.js) the system provides users with a user-friendly interface for searching,booking and managing flight tickets efficiently

Team members & roles

➢ Nadhiya D-(project-incharge)

➢ Rajesh Kannan S-(project-manager)

➢ Sachinkumar R-(front-end developer)

➢ Sanjaykumar C-(back-end developer)

➢ Thiyagarajan V-(project implementor)

Project overview:

Purpose of the flight booking project:

- ❖ User-friendly experience
- ❖ Real-time flight data
- ❖ Efficient booking management
- ❖ Learning and skill development

About front-end:

- About front-end:
- Sign-In &sign-up pages
- Uses token based system,soonly registered users can acessthe website passport js
- Password hashing using passport js
- Has a profile page which will display all information about the signed in user
- List of cities for users to choose from(starting city& destination city)
- Getting list of flight's of different airlines with various details
- Seat selection page has a very user friendly environment,which,also generates dynamic fromsfor storing data's of passengers
- Has a confirmation page,which gets a debit card data using react-credit-cards
- Final page has a boarding pass displaying component ,it displays all passenger data and also generates a random number as a transaction ID
- Ticket cancellation page will cancel the ticket which was booked
- Also has an integrated AI chatbot

About back-end:

- About back-end:
- Uses express js based application for the back end process
- Uses MongoDB atlas for storing the collections
- Uses passport js for authenticating user and token based system
- Uses passport js for hashing the password before sending the data to the cloud
- This version does not support dynamic seat data being stored from cloud

Goals of the flight booking project

- ✓ Functional requirements
- ✓ Non-functional requirements
- ✓ User experience goals
- ✓ Intregration goals
- ✓ Testing and quality assurance
- ✓ Deployment and maintainance

Prerequisite:

- Html
- Css
- Javascript
- JSV(javascript XML)
- Node.js
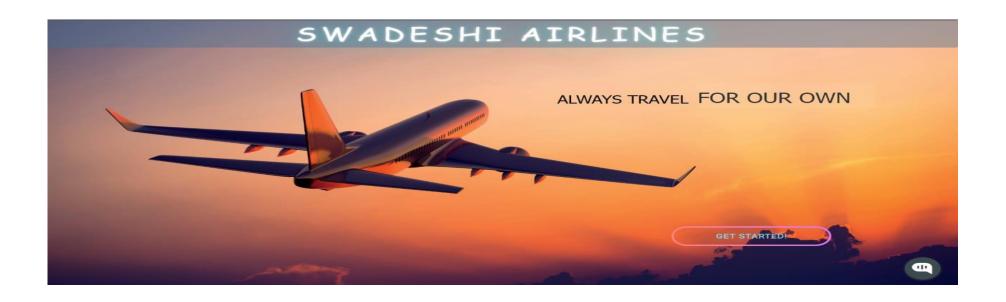- Expression.js
- Git
- mongoDB

Front-end development:

➢ Front-end development is the process of designing and building the parts of a website that users interact with such as buttons,text boxes and the user interface(UI)

➢ Front-end development is a critical part of web development that combines design and programming to create a user friendly experience

➢ It's also known as client-side development

Back-end development:

➢ Back-end development is the process of working on the server-side software of a website or app,which includes everything that's not visible to the user

➢ Back-end developers are responsible for ensuring that the website functions correctly by focusing on:Databases,back-end logicapplication programming interface(APIs),architecture and servers
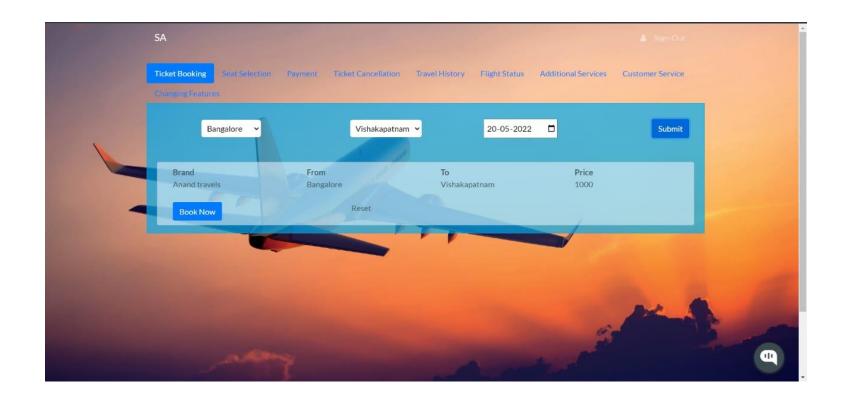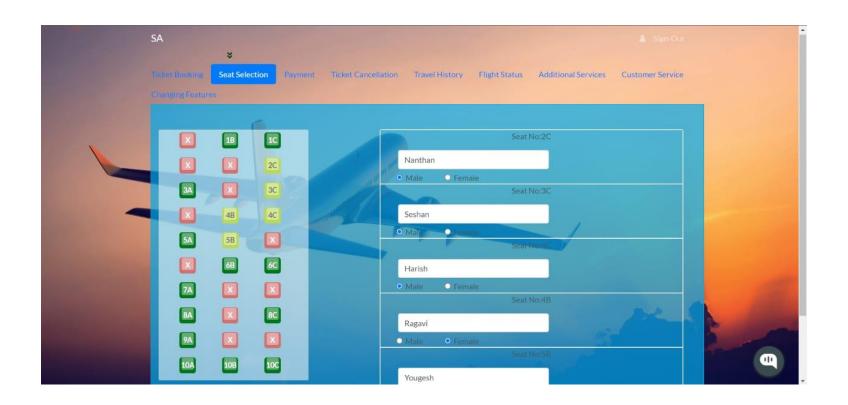
Procedure to execute the project:

Landing page

Authentication:
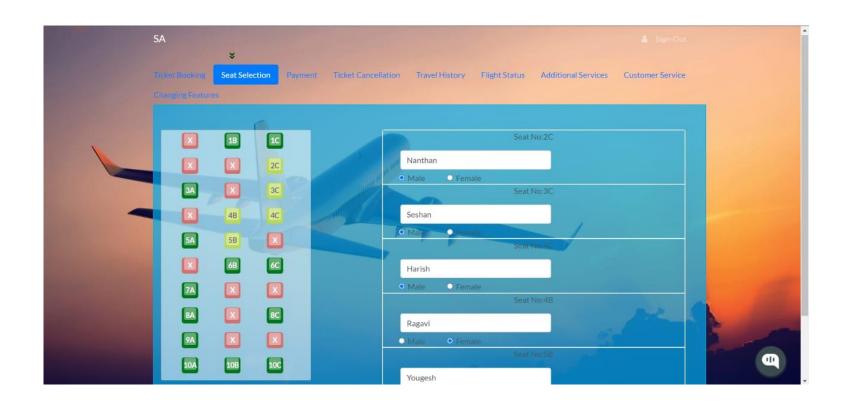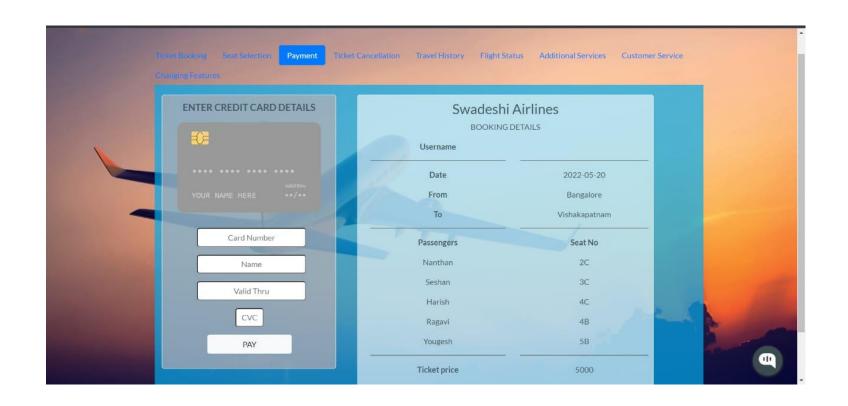
User bookings:

Seat selection page:
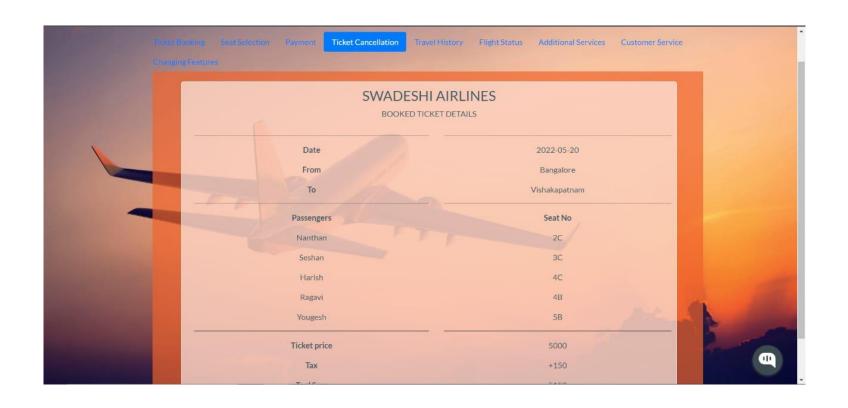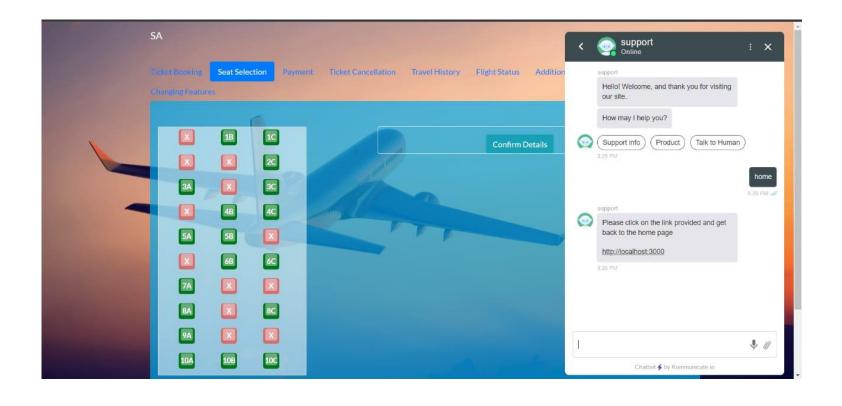
All users:

Payments & confirmation page:

Ticket cancellation page:

Integrated AI chatbot

Project implementation:

◆ After creating the flight ticket booking website run the code for testing bugs

◆ Some software tools are used to avoid issues in coding and iits is used to build the website

Conclusion :

✓ The primary aim of the study is to design an airline booking system for the online reservation of ticket across different cities

✓ Online reservation system will help the users to book their ticket from the comfort of their home thereby comparing their different website for ensuring the best possible price could be available