Resort Ecosystem

Project Report

Check Entire project demo
Visit Live Restaurant Site

The project encompasses the development of a comprehensive ecosystem for a resort, incorporating a user-friendly website for guests to peruse hotel information and submit accommodation requests. Additionally, the resort features a restaurant that caters to both in-house guests and provides food delivery services to neighbouring households.

The restaurant website is meticulously designed to showcase the complete menu in an elegant and intuitive interface, facilitating seamless food ordering for users.

Furthermore, an administrative panel has been implemented to efficiently manage all aspects of the resort. This dashboard empowers administrators to oversee every detail, from cabin pricing to handling accommodation requests, ensuring smooth operations and exceptional user experiences.

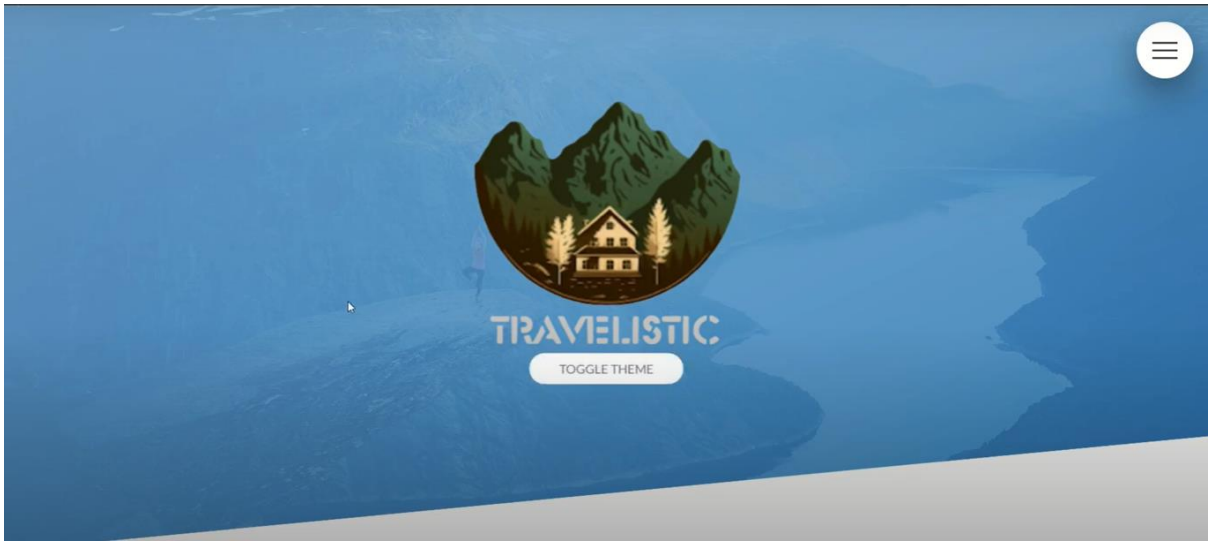
Hotel Booking website

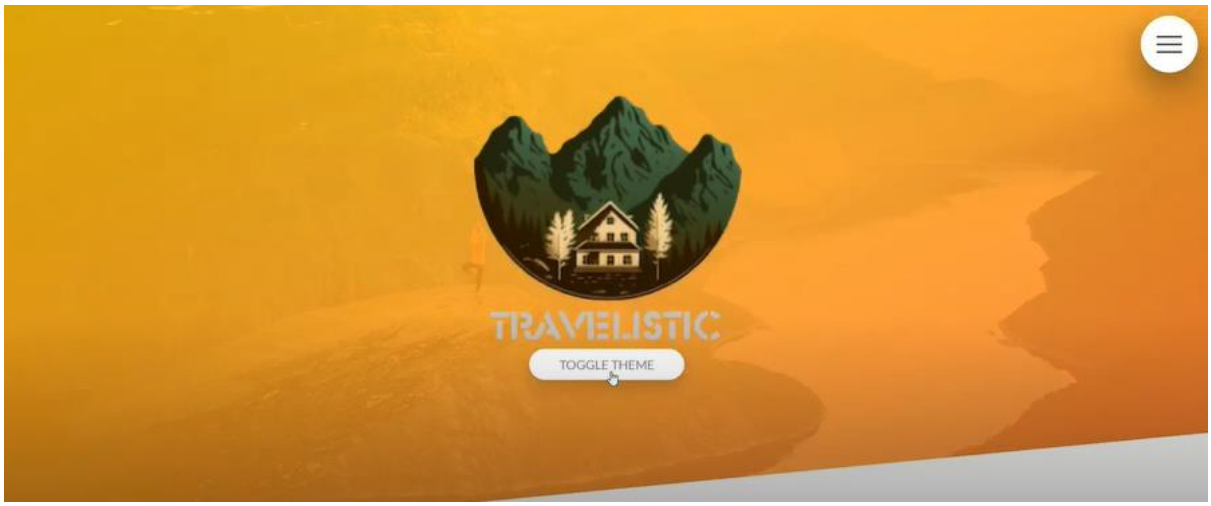
The hotel booking website serves as a platform for guests to effortlessly make accommodation requests. The primary objective of this website is to deliver an exceptional user experience through an aesthetically pleasing UI/UX design. Visitors can easily explore various cabin options, each accompanied by detailed information such as occupancy capacity, air conditioning availability, and additional amenities.

To ensure confidentiality and security, the website employs JWT-based authentication, utilizing bcryptjs for robust hashing mechanisms. This approach safeguards sensitive user data effectively.

In terms of visual appeal, the website offers a range of customization options, including the ability to select from three preset themes: blue, green, or orange. These themes enhance the overall aesthetic appeal and align with the branding of the resort.

Moreover, the website incorporates captivating animations to engage users and maintain their interest in the resort's offerings. These animations contribute to a dynamic and immersive browsing experience, further enhancing the website's attractiveness and appeal.





Check the live site:

Hotel Food Ordering website

Introduction:

- The food ordering app is a user-friendly platform designed to streamline the process of ordering food online.
- Built with React and Redux, it offers a seamless experience with interactive features, a responsive design, and an intuitive layout to enhance user satisfaction.

Interactive Interface:

- The app boasts an interactive interface that engages users with smooth transitions, animated elements, and interactive components.
- Users can easily navigate through the app, browse menus, and customize orders with just a few taps or clicks.

Fully Responsive Design:

- The app is optimized for various devices, including smartphones, tablets, and desktops, ensuring a consistent experience across all screen sizes.
- Responsive design elements adapt fluidly to different screen resolutions, providing users with a comfortable browsing experience on any device.

Intuitive Layout:

- The layout of the app is carefully designed to prioritize key features and information, making it easy for users to find what they need quickly.
- Clear navigation menus, prominent call-to-action buttons, and organized content sections contribute to an intuitive user experience.

Features:

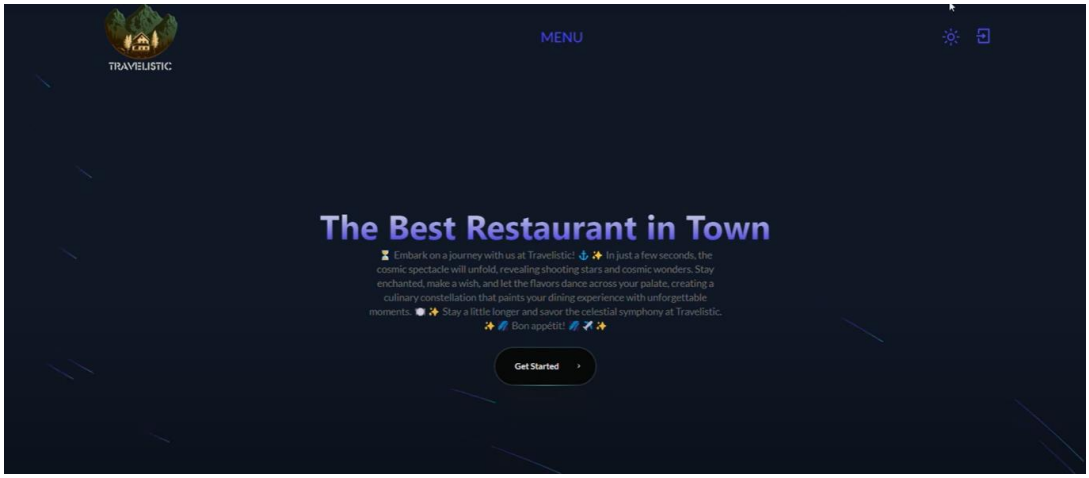
Cart: Users can add items to their cart, review their selections, and proceed to checkout seamlessly.

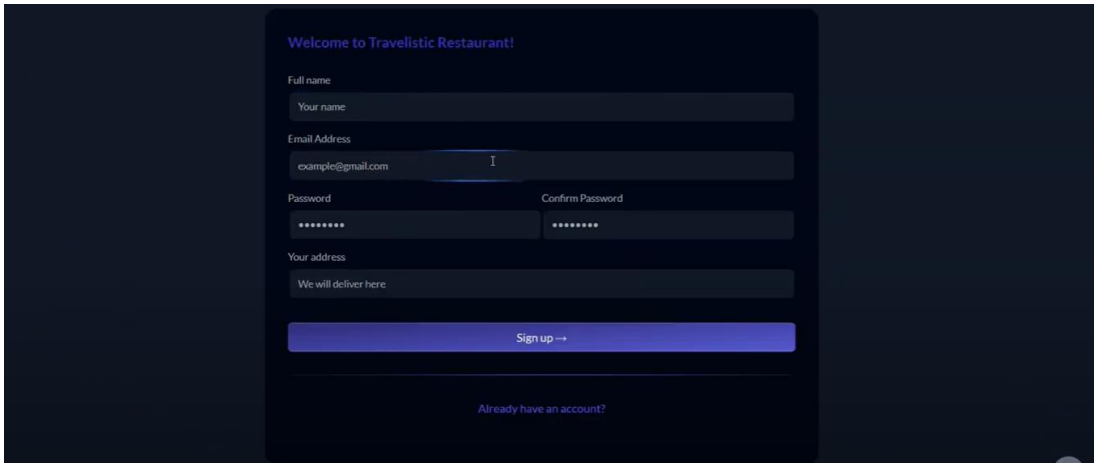
Order History: A comprehensive order history allows users to track past orders, reorder favorite items, and view order details.

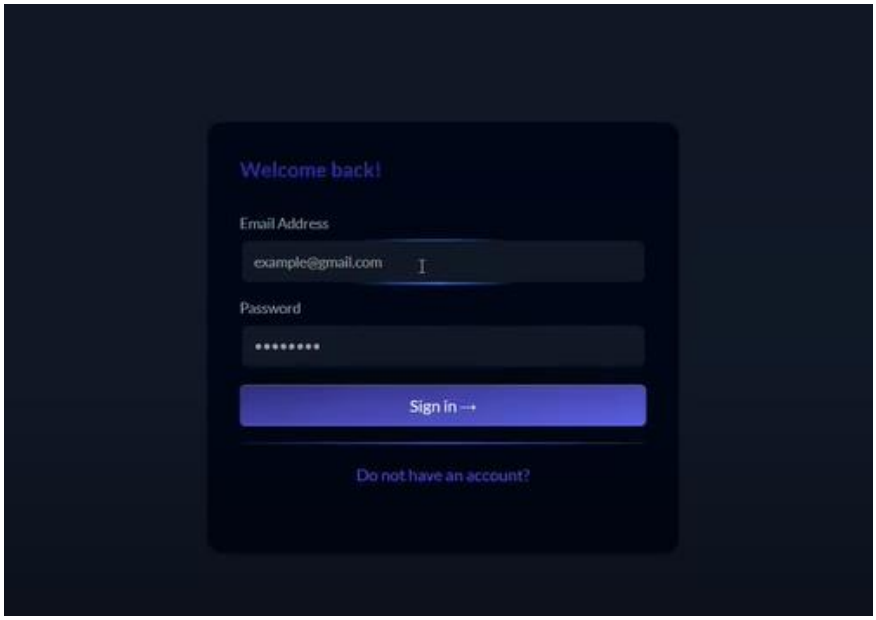
Light-Dark Mode: The app offers a customizable theme with light and dark mode options to suit user preferences.

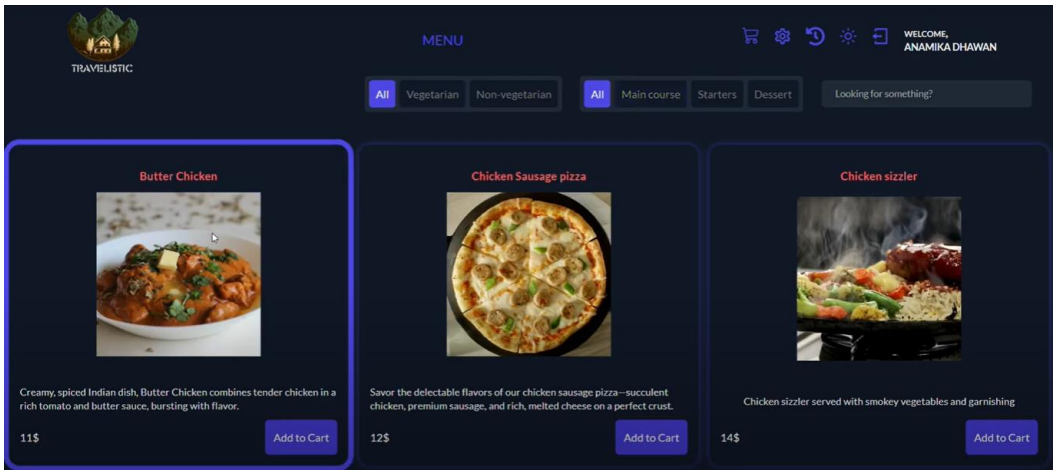
User Profiles: Users can create profiles, save delivery addresses, and manage payment methods for faster checkout.

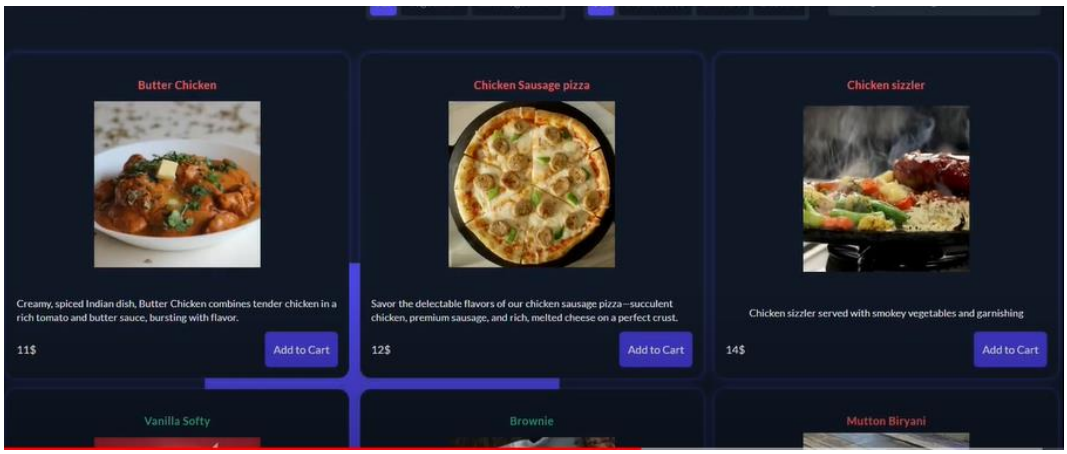
Admin panel: Restaurant manager is able to check all the orders, pending or done. He/she is also equipped with the ability to manually updated the order status (cooking your meal, out for delivery, delivered)

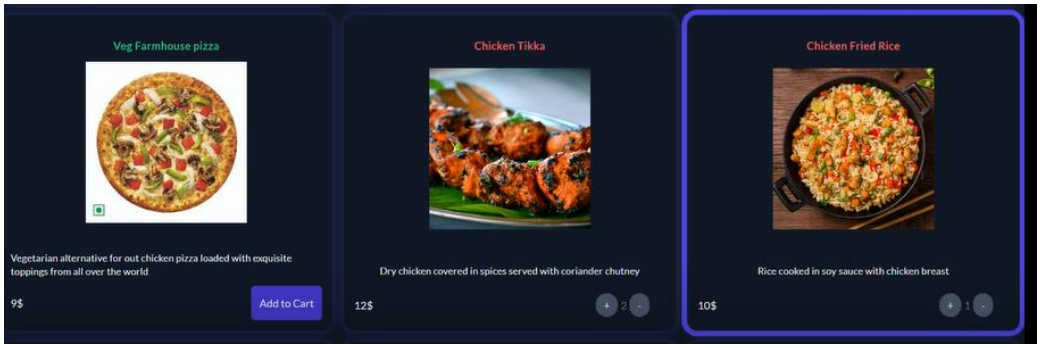


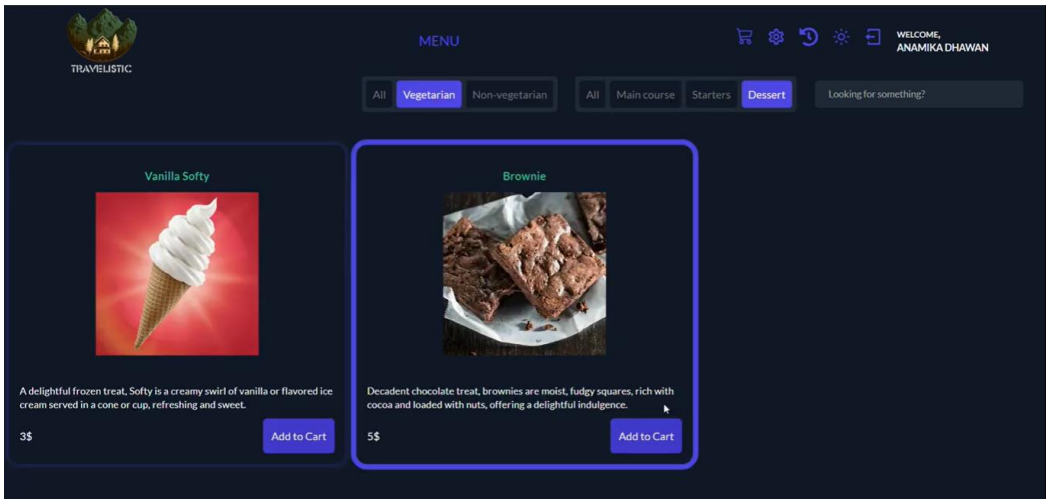


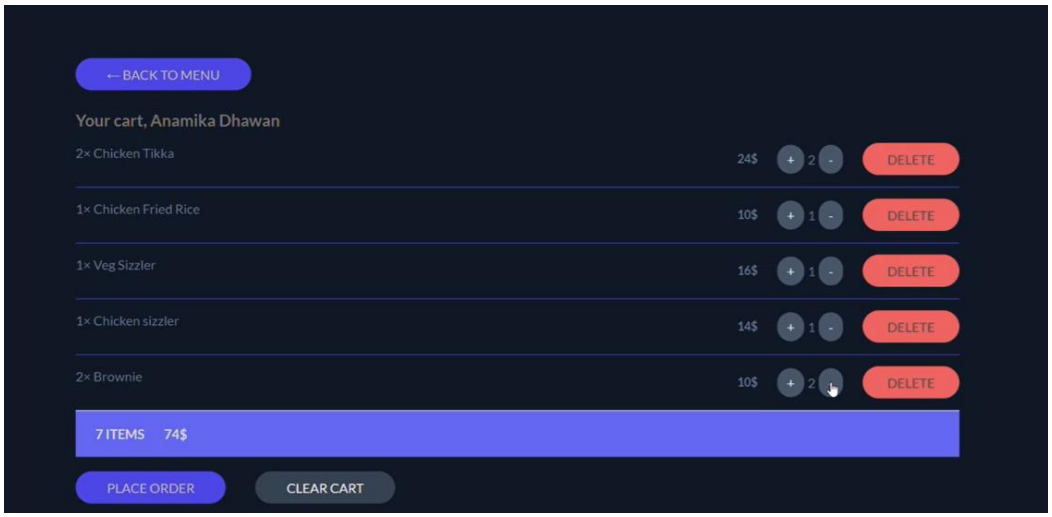

Welcome back!
Email Address
example@gmail.com
Password
Sign in →
Do not have an account?

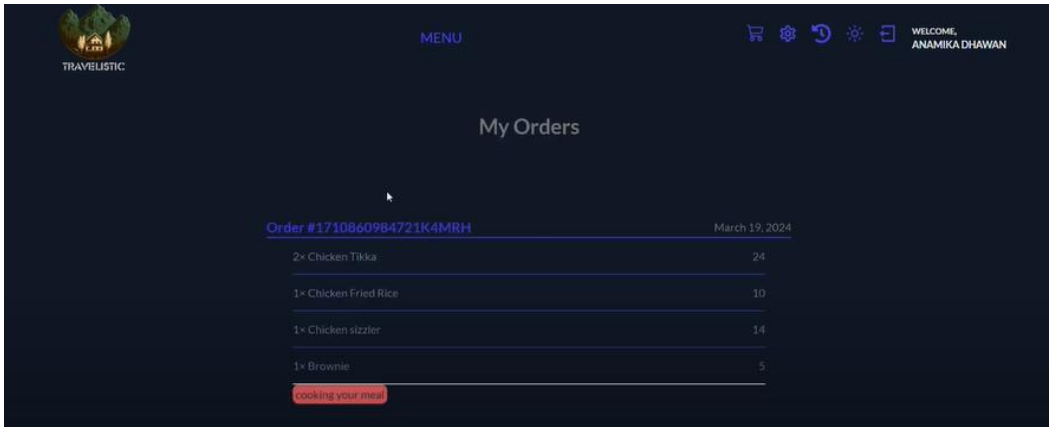

TRAVELISTIC
MENU
WELCOME,
ANAMIKA DHAWAN
All
Vegetarian
Non-vegetarian
All
Main course
Starters
Dessert
Looking for something?
Butter Chicken
Creamy, spiced Indian dish, Butter Chicken combines tender chicken in a rich tomato and butter sauce, bursting with flavor.
11$
Add to Cart
Chicken Sausage pizza
Savor the delectable flavors of our chicken sausage pizza—succulent chicken, premium sausage, and rich, melted cheese on a perfect crust.
12$
Add to Cart
Chicken sizzler
Chicken sizzler served with smokey vegetables and garnishing
14$
Add to Cart

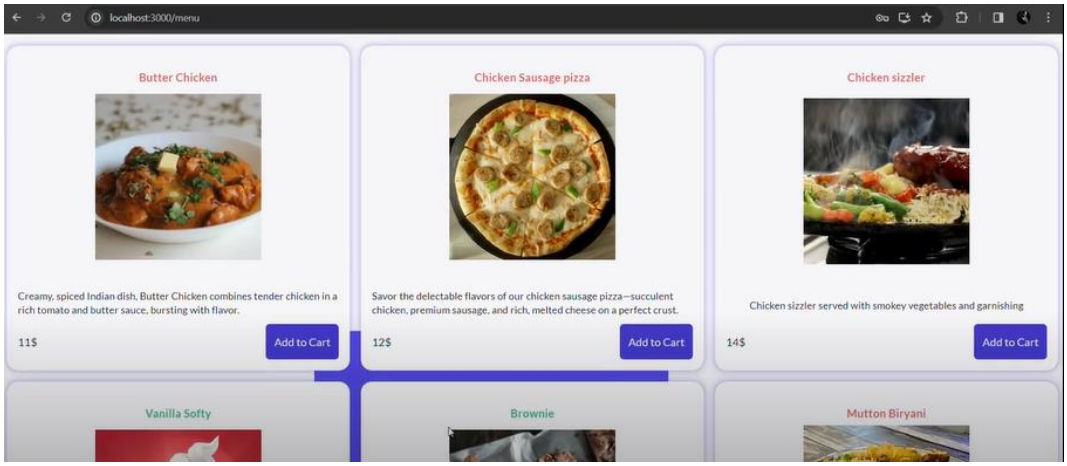

Butter Chicken
Creamy, spiced Indian dish, Butter Chicken combines tender chicken in a rich tomato and butter sauce, bursting with flavor.
11$
Add to Cart
Chicken Sausage pizza
Savor the delectable flavors of our chicken sausage pizza—succulent chicken, premium sausage, and rich, melted cheese on a perfect crust.
12$
Add to Cart
Chicken sizzler
Chicken sizzler served with smokey vegetables and garnishing
14$
Add to Cart
Vanilla Softy
Brownie
Mutton Biryani

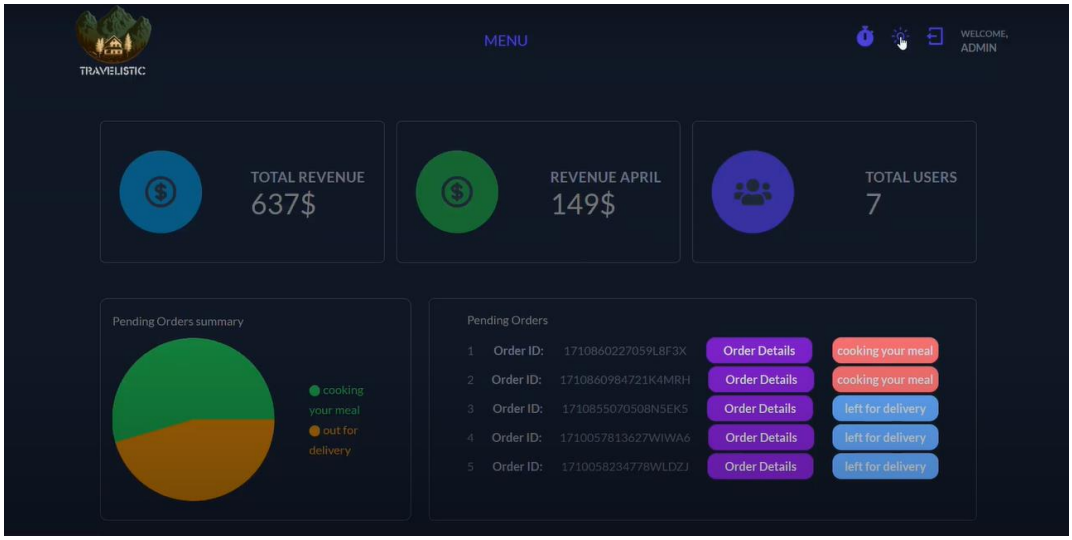

Veg Farmhouse pizza
Vegetarian alternative for out chicken pizza loaded with exquisite toppings from all over the world
9$
Add to Cart
Chicken Tikka
Dry chicken covered in spices served with coriander chutney
12$
2
Chicken Fried Rice
Rice cooked in soy sauce with chicken breast
10$
1

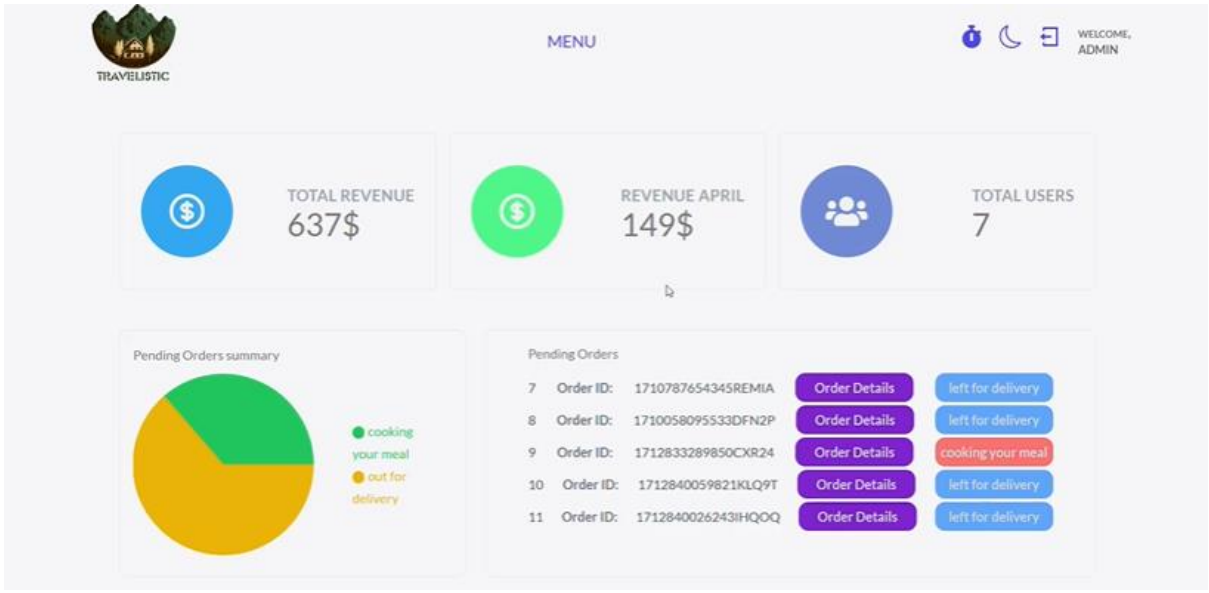

TRAVELISTIC
MENU
WELCOME,
ANAMIKA DHAWAN
All
Vegetarian
Non-vegetarian
All
Main course
Starters
Dessert
Looking for something?
Vanilla Softy
A delightful frozen treat, Softy is a creamy swirl of vanilla or flavored ice cream served in a cone or cup, refreshing and sweet.
3$
Add to Cart
Brownie
Decadent chocolate treat, brownies are moist, fudgy squares, rich with cocoa and loaded with nuts, offering a delightful indulgence.
5$
Add to Cart


← BACK TO MENU
Your cart, Anamika Dhawan
2× Chicken Tikka
24$
2
DELETE
1× Chicken Fried Rice
10$
1
DELETE
1× Veg Sizzler
16$
1
DELETE
1× Chicken sizzler
14$
1
DELETE
2× Brownie
10$
2
DELETE
7 ITEMS 74$
PLACE ORDER
CLEAR CART


TRAVELISTIC
MENU
WELCOME,
ANAMIKA DHAWAN
My Orders
Order #1710860984721K4MRH
March 19, 2024
2× Chicken Tikka
24
1× Chicken Fried Rice
10
1× Chicken sizzler
14
1× Brownie
5
cooking your meal







ADMIN PANEL

Developed a sophisticated hotel management system with: * Intuitive Admin Panel with graphs for data analytics, an easy-to-navigate dashboard for management. *

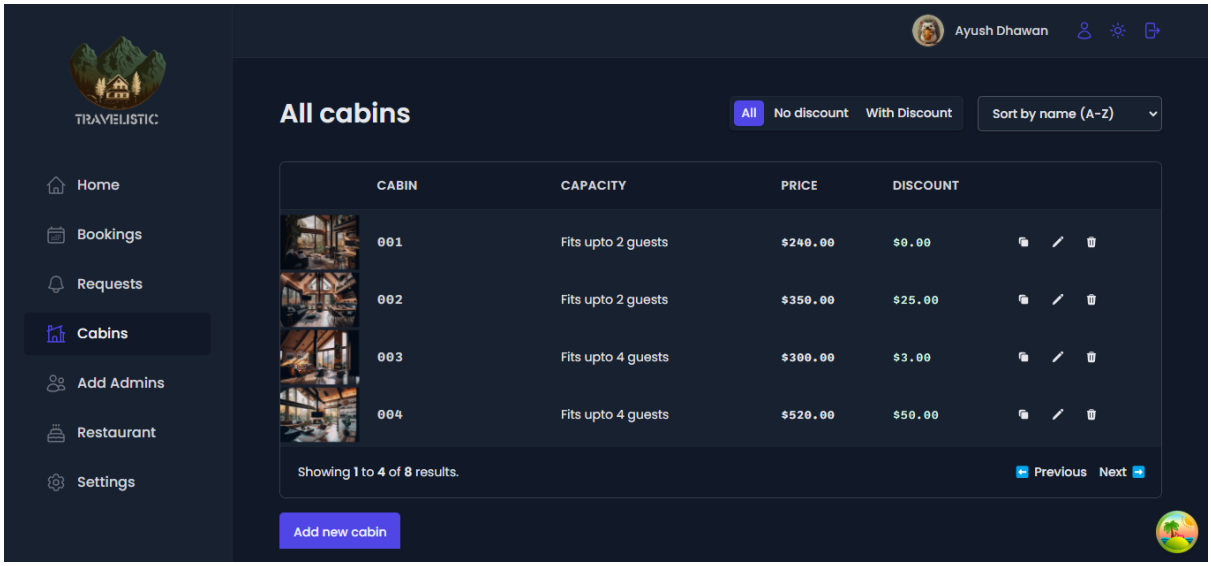
Machine Learning to analyze past data and predict future revenue, displayed in an interactive graph. ∗ Admins can efficiently manage various tasks, including confirming/declining pending accommodation requests, overseeing real-time check-in/check-out statuses, tracking the day's activity, such as guests arriving/departing, restaurant menu, ,their personal profiles, registering new admins conveniently. Designed an elegant, well animated user interface used by hotel guests for: ∗ Browsing hotel details and reserving accommodations Restaurant end of the web-app offers nearby residents: ∗ Convenient food ordering experience with aesthetic animations ∗ The restaurant manager is equipped with the ability to manage order statuses The entire project is Powered by a shared database for centralization

Cabin Management within the Admin Panel

The admin panel will incorporate a dedicated Cabins page designed to facilitate comprehensive cabin information management. This functionality empowers administrators to:

- **Create New Cabins:** Admins can effortlessly add new cabins to the system, defining their attributes such as name, description, capacity, and image.
- **Manage Cabin Details:** Existing cabin information can be readily modified. This includes editing the cabin name, description, and associated image.
- **Price Fluctuations:** Price adjustments can be made for each cabin to reflect market variations or seasonal demands.
- **Dynamic Discounts:** The system allows for the creation of time-bound discounts applicable to specific cabins. This enables targeted promotions during off-seasons or specific periods.
- **Filtering:** Cabins can be efficiently filtered based on the presence or absence of active discounts. This streamlines the process of locating cabins with ongoing promotions.
- **Sorting Options:** Sorting functionalities are provided to organize the cabin listings based on various criteria, including name, price, and capacity. This facilitates a user-friendly experience for admins navigating a large cabin inventory.

By encompassing these functionalities, the Cabins page empowers administrators with granular control over cabin information, ensuring an up-to-date and dynamic cabin management system.



Request Management within the Admin Panel

The admin panel will feature a Requests page dedicated to managing booking requests made by guests through the "Travelistic" website. This functionality ensures real-time visibility into all incoming booking requests.

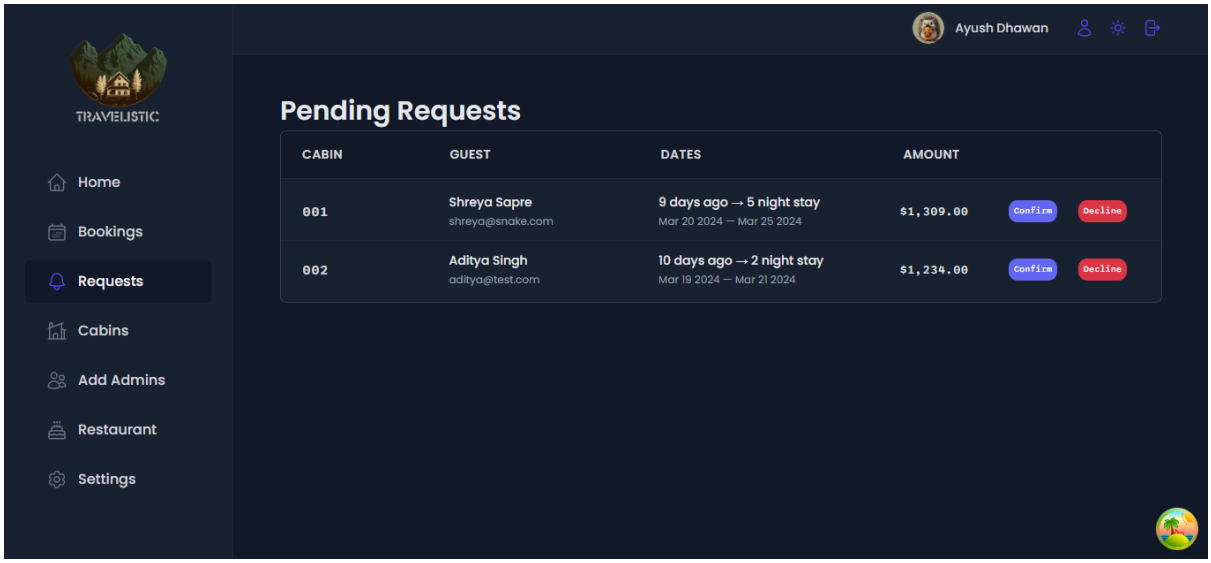
Streamlined Request Management:

Real-Time Updates: Booking requests will be displayed as soon as they are submitted on the "Travelistic" website, providing admins with immediate information for processing without the need to refresh the page.

Informed Decisions: Admins will be empowered to efficiently evaluate and manage booking requests based on a comprehensive set of factors, including room availability, operational status of the hotel

Confirmation Process and Status Tracking:

Upon confirmation of a booking request, the system will automatically update the booking status to "unconfirmed" by default. This reflects the need for guest check-in to finalize the booking process. This clear status differentiation ensures efficient communication and avoids confusion throughout the guest experience.



Booking Management for Current Bookings

The admin panel will include a Bookings page specifically designed to manage existing guest reservations. This functionality provides administrators with comprehensive control over the booking lifecycle within the hotel.

Booking Statuses and Management:

The system incorporates three distinct booking statuses to streamline the reservation process:

Unconfirmed: This serves as the default status for all new bookings. It signifies that the guest has made a reservation request, but confirmation is pending further actions (e.g., guest check-in).

CheckIn: Upon guest arrival and verification of payment, the admin can update the booking status to "CheckIn," reflecting the official commencement of the guest's stay.

CheckOut: Once the guest's stay has concluded, the admin can transition the booking status to "CheckOut," finalizing the reservation process.

Improved User Experience:

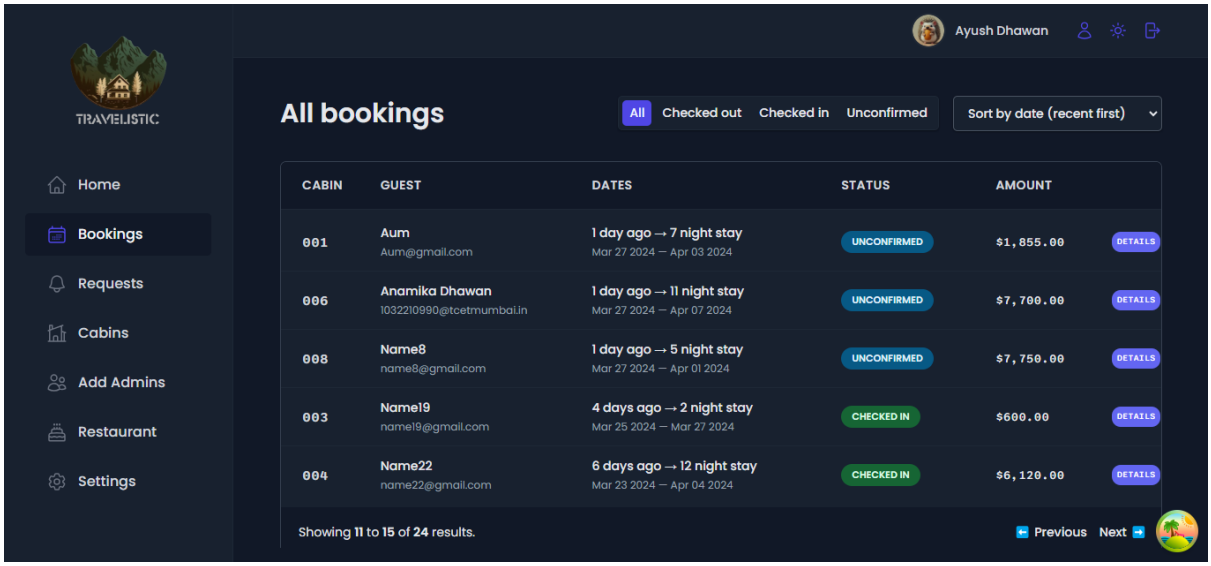
Filters: Bookings can be efficiently filtered based on their current status ("Unconfirmed," "CheckIn," or "CheckOut"). This filtering functionality allows admins to focus on specific sets of reservations for targeted actions.

Client-Side Pagination: The Bookings page incorporates a user-friendly pagination system for faster loading times and a more responsive user experience. This enables admins to navigate through a large number of booking entries with ease.

Sorting Options: Sorting functionalities are provided to organize booking listings based on various criteria, including:

- Sort by date: Bookings can be displayed chronologically, with the most recent/oldest reservations appearing first.
- Sort by Price: Bookings can be organized based on their total price, facilitating revenue management tasks.

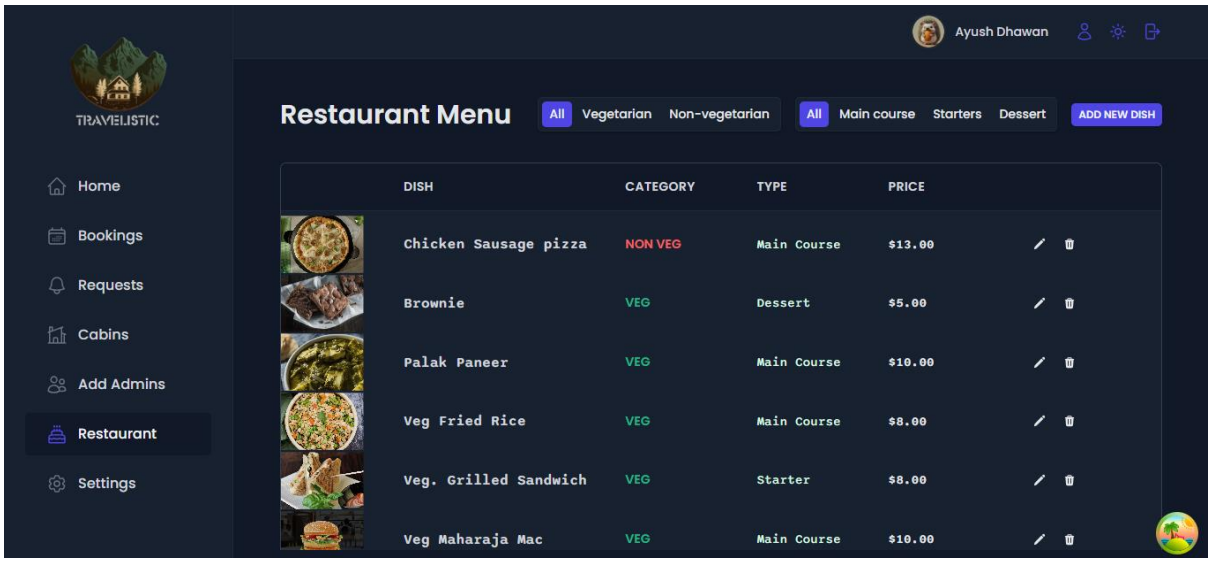
This comprehensive booking management system empowers admins with the necessary tools to effectively manage guest reservations, ensuring a streamlined and efficient booking lifecycle within the hotel.



Restaurant management

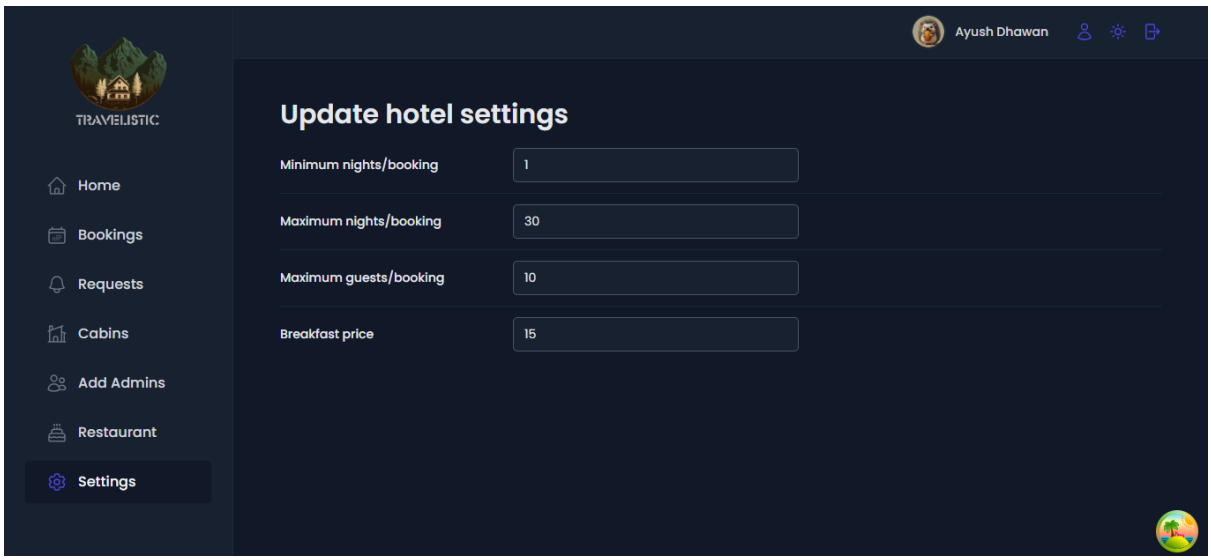
The admin panel includes a restaurant page specifically designed to manage dishes served in the restaurant. This functionality provides administrators with comprehensive control over what i being served in the resort.

Admins can add, delete ad edit information about dishes from images to prices and more…



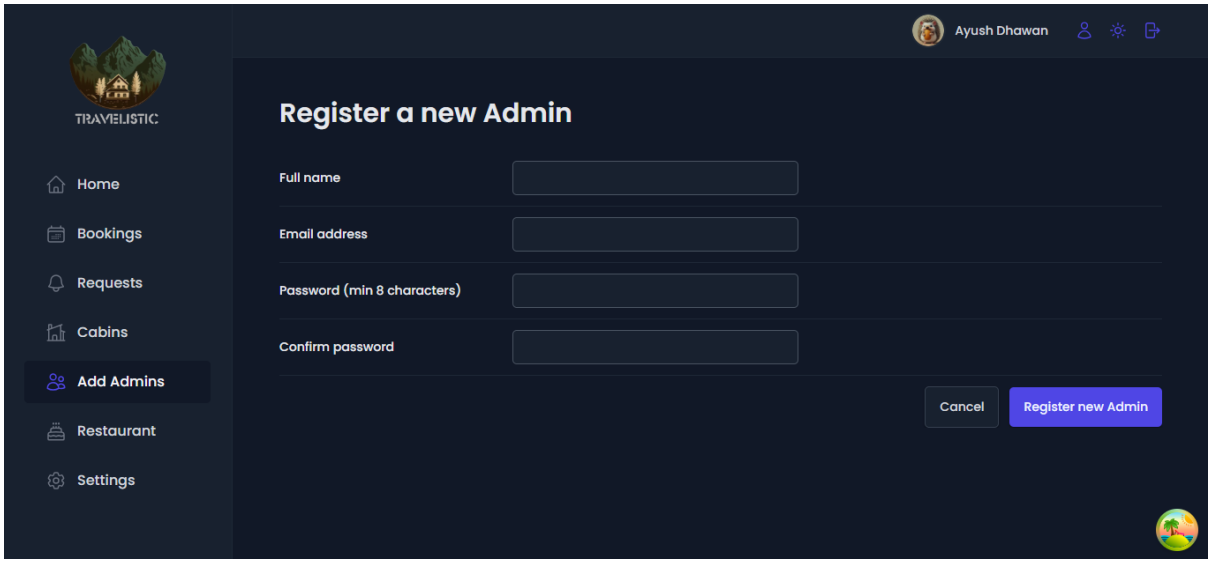
Resort Settings management

The admin panel includes a separate page to manage general settings such as



Admins management

Only current admins are equipped with the ability to grant new admins access in order to maintain confidentiality



Interactive admin dashboard

Only home page of the admin panel is an interactive graphical interface serving as the dashboard of the application.

The first section of dashboard shows overall hotel statistics based on the selected filter (7, 30, 90 days) namely number of bookings, total sales, number of checkins and occupancy rate.

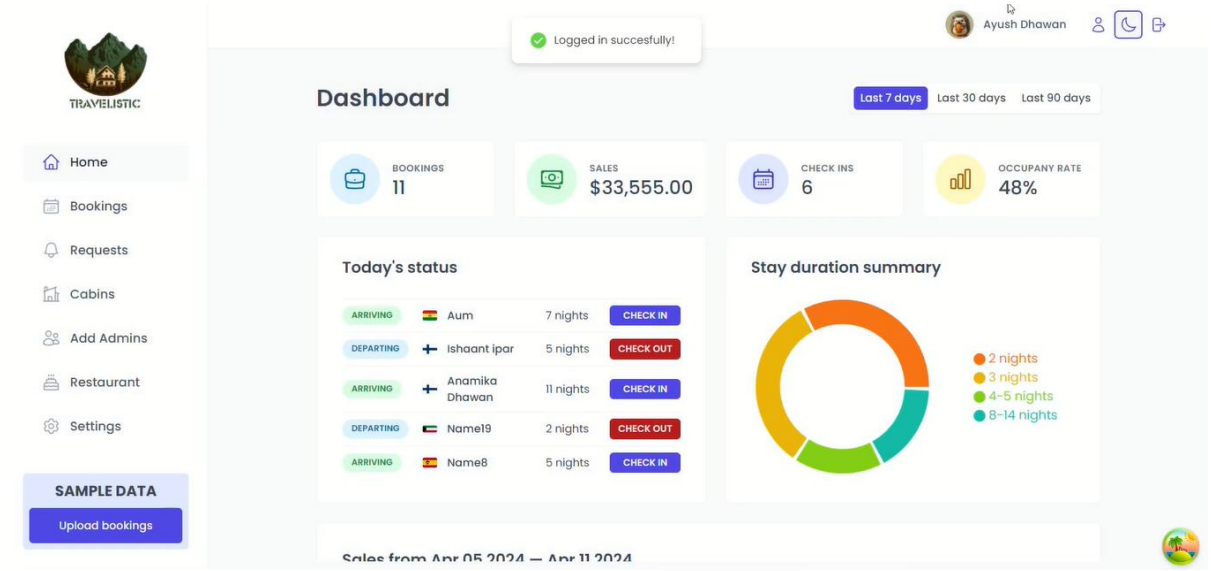
The second section of the dashboard includes a pie chart showcasing the durations people choose to stay in the resort.

It also has a table which shows current day activity namely checkins and checkouts. Admins can manage the checkin and checkouts of the present day from the dashboard itself.

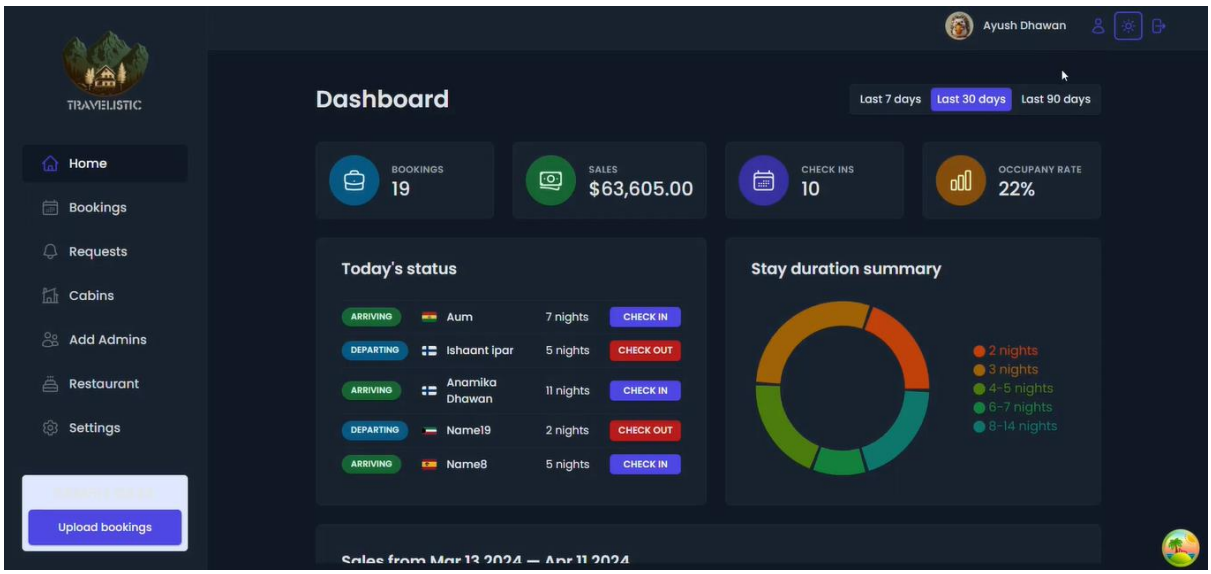
The third section of the dashboard features an area chart which show the sales made in the filter duration selected. The chart consists of 2 areas for booking revenue and extra sales revenue seperately.

The fourth section of the dashboard encompasses a chart showing past 2 years revenue for each month.

Using the data a best fit line is placed using linear regression which aids in predicting the revenue to be generated for each month in the present year.


TRAVELISTIC
Logged in succesfully!
Ayush Dhawan
Dashboard
Last 7 days
Last 30 days
Last 90 days
Home
Bookings
Requests
Cabins
Add Admins
Restaurant
Settings
SAMPLE DATA
Upload bookings
BOOKINGS
11
SALES
$33,555.00
CHECK INS
6
OCCUPANY RATE
48%
Today's status
ARRIVING Aum 7 nights CHECK IN
DEPARTING Ishaant ipar 5 nights CHECK OUT
ARRIVING Anamika Dhawan 11 nights CHECK IN
DEPARTING Name19 2 nights CHECK OUT
ARRIVING Name8 5 nights CHECK IN
Stay duration summary
2 nights
3 nights
4-5 nights
8-14 nights
Sales from Apr 05 2024 — Apr 11 2024

TRAVELISTIC
Ayush Dhawan
Home
Bookings
Requests
Cabins
Add Admins
Restaurant
Settings
SAMPLE DATA
Upload bookings
DEPARTING Name19 2 nights CHECK OUT
ARRIVING Name8 5 nights CHECK IN
6-7 nights
8-14 nights
Sales from Mar 13 2024 — Apr 11 2024
12000$
9000$
6000$
3000$
0$
Mar 26
Total Sales : 5320$
Extras Sales : 420$
Mar 13 Mar 15 Mar 17 Mar 19 Mar 21 Mar 23 Mar 25 Mar 27 Mar 29 Mar 31 Apr 02 Apr 04 Apr 06 Apr 08 Apr 11


TRAVELISTIC
Ayush Dhawan
Dashboard
Last 7 days
Last 30 days
Last 90 days
Home
Bookings
Requests
Cabins
Add Admins
Restaurant
Settings
Upload bookings
BOOKINGS
19
SALES
$63,605.00
CHECK INS
10
OCCUPANY RATE
22%
Today's status
ARRIVING Aum 7 nights CHECK IN
DEPARTING Ishaant ipar 5 nights CHECK OUT
ARRIVING Anamika Dhawan 11 nights CHECK IN
DEPARTING Name19 2 nights CHECK OUT
ARRIVING Name8 5 nights CHECK IN
Stay duration summary
2 nights
3 nights
4-5 nights
6-7 nights
8-14 nights
Sales from Mar 13 2024 — Apr 11 2024

Additional features:

Some additional features include password recovery, email verification of admins before they can access the application