

Domain and Scope of the Project

This project falls within the domain of national park management and eco-tourism, focusing on improving the organization, accessibility, and digital experience of wildlife conservation areas. The system provides a centralized platform where visitors can explore park information, view wildlife galleries, and conveniently book tour packages online.

In addition to visitor services, the application includes an administrative module that enables staff login and back-office operations, such as managing employees, zones, habitats, enclosures, and tour packages, which are illustrated in the admin dashboard and CRUD interfaces

The scope of the project covers the design of intuitive user interfaces, implementation of secure authentication mechanisms, and development of dynamic database-driven pages to support data storage and manipulation. By digitizing key functions such as staff management and park resource cataloging, the system aims to reduce manual workloads, minimize errors, and improve operational efficiency.

In the future, the platform can be expanded to include advanced features like wildlife tracking, real-time visitor analytics, online ticket payments, mobile applications, and automated alerts to support sustainable park management and enhanced visitor engagement.

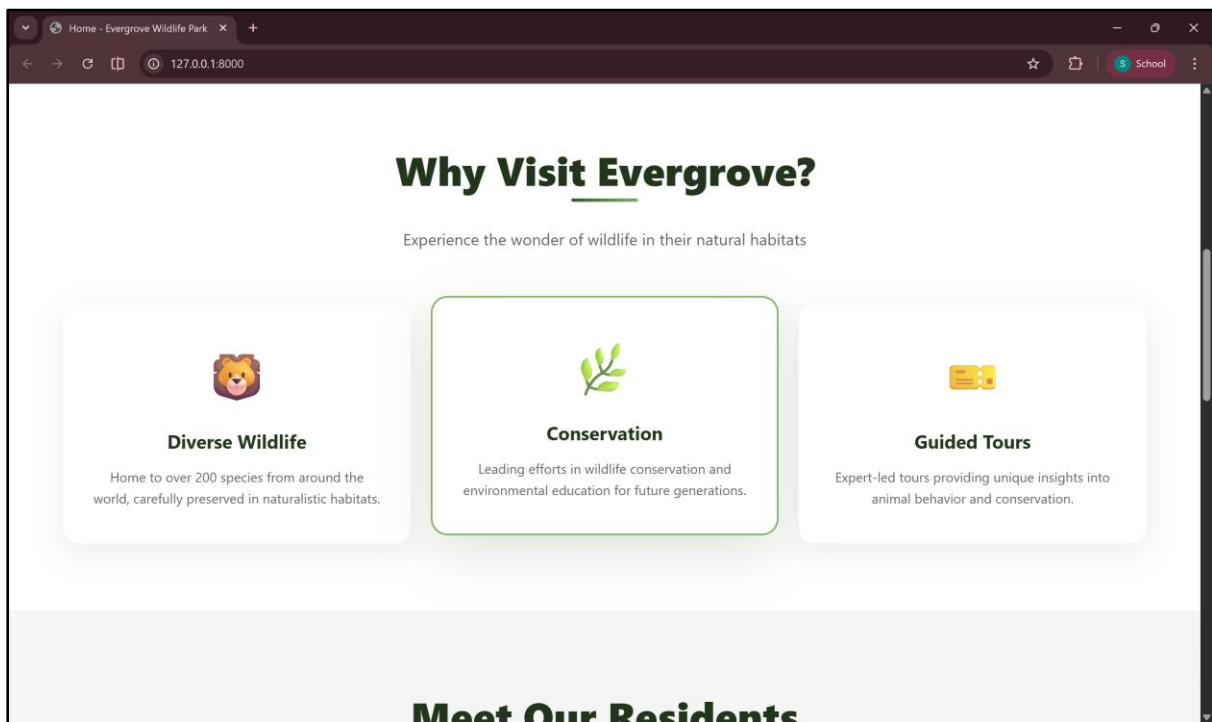
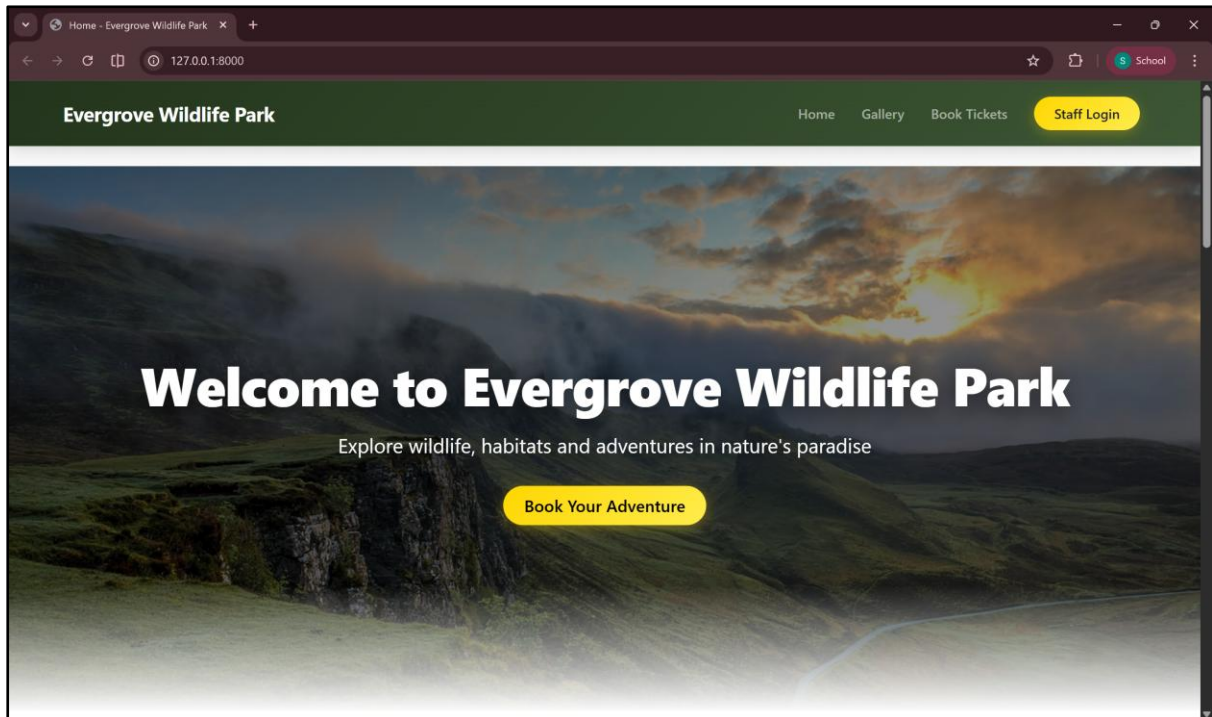
System Users

Visitors: Individuals who access the website to explore the park, view the gallery, and book tickets.

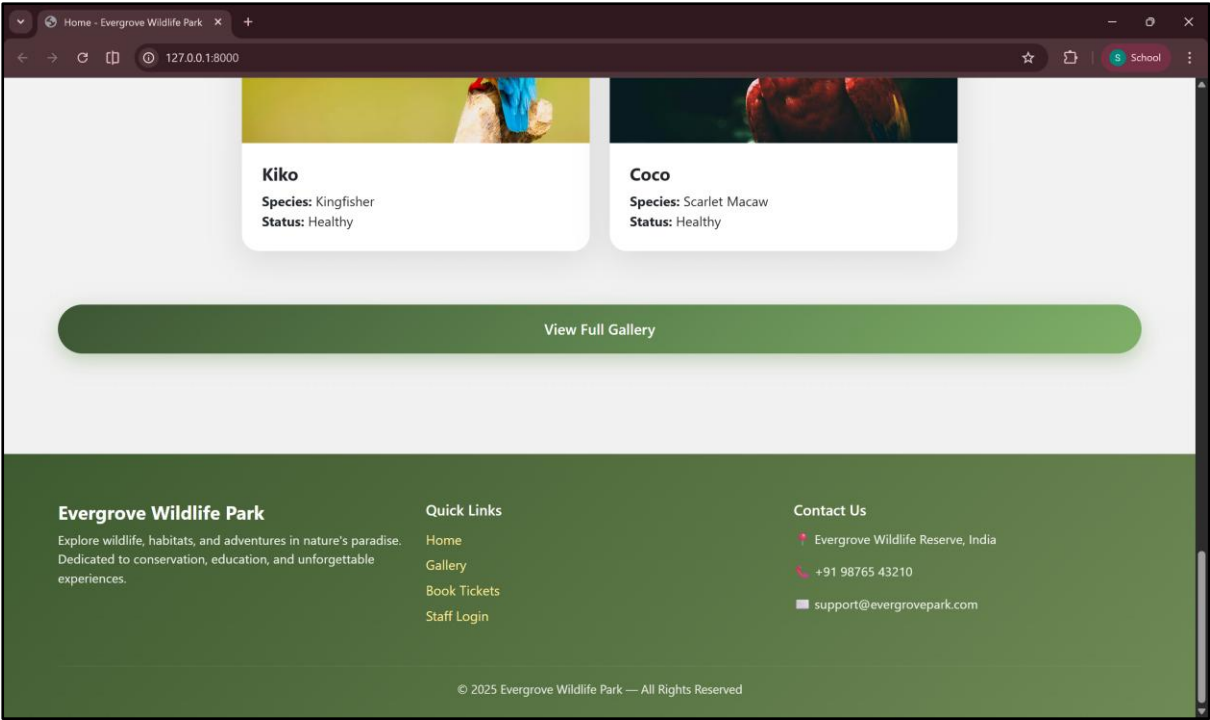
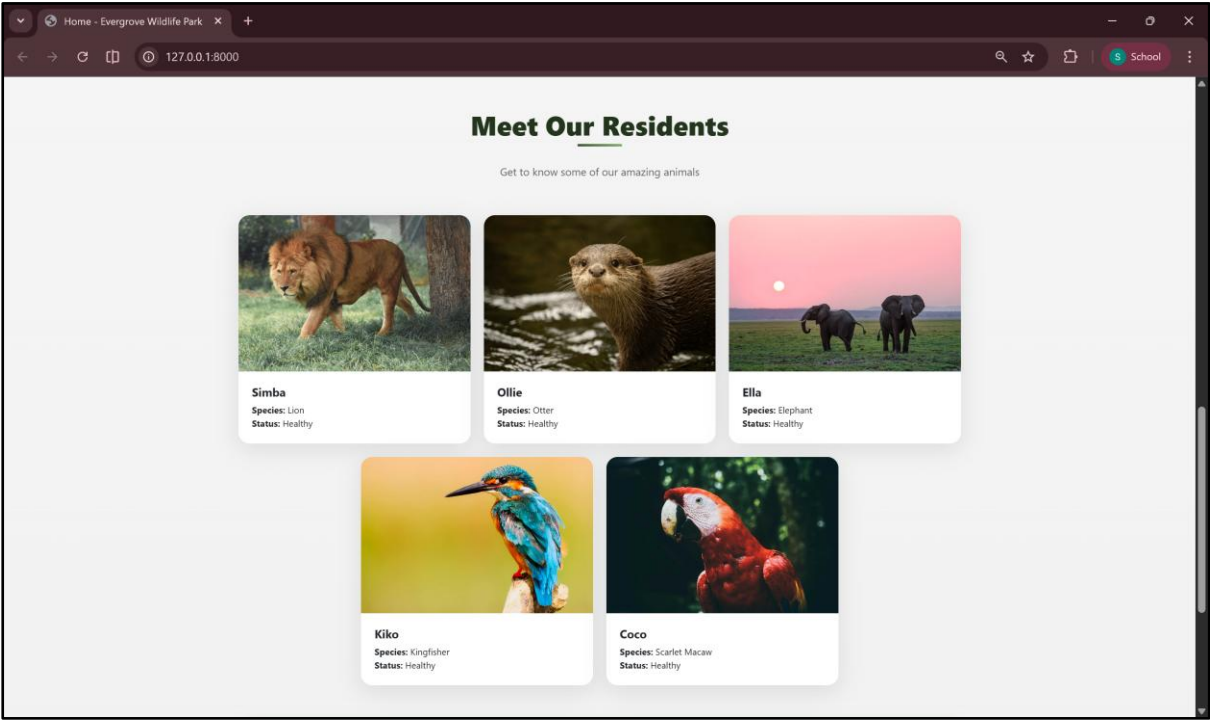
Park Staff: Authorized personnel who log in to manage staff records, zones, habitats, enclosures, tickets, and visitor information.

Home Page

A welcoming landing page featuring a large hero banner with wildlife imagery, a title introducing the national park, a short tagline, and a prominent “Book Tickets” button directing users to the ticket booking flow.

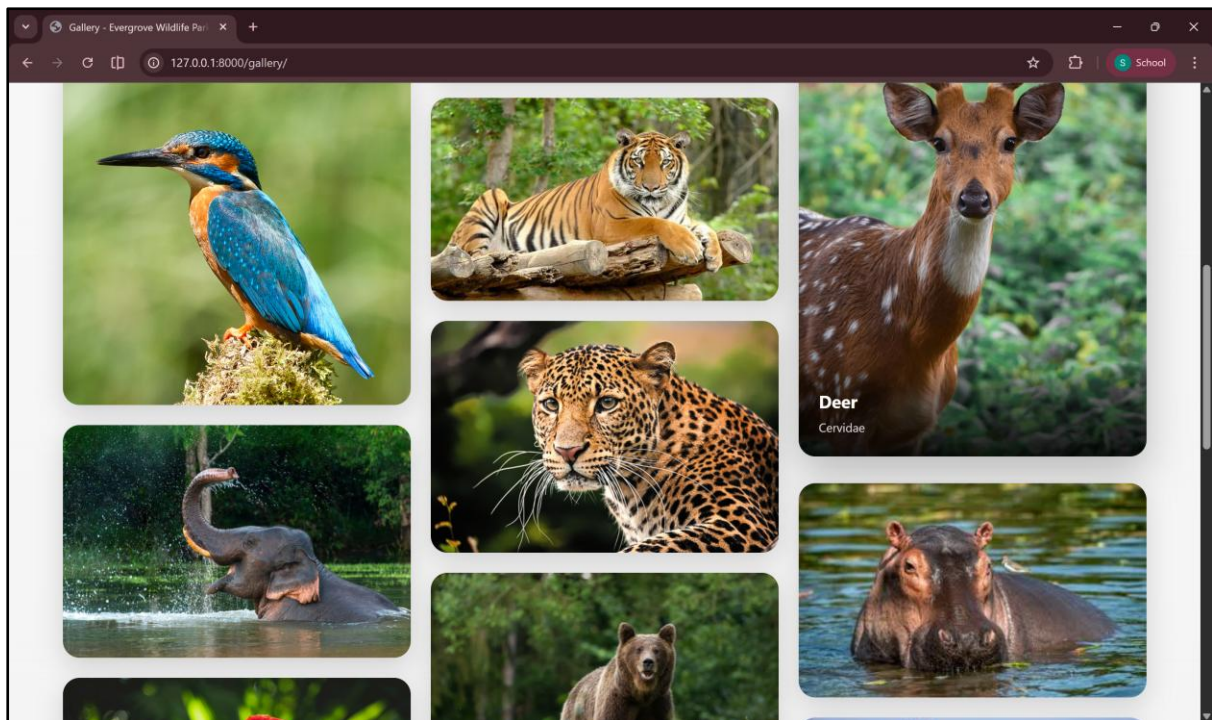
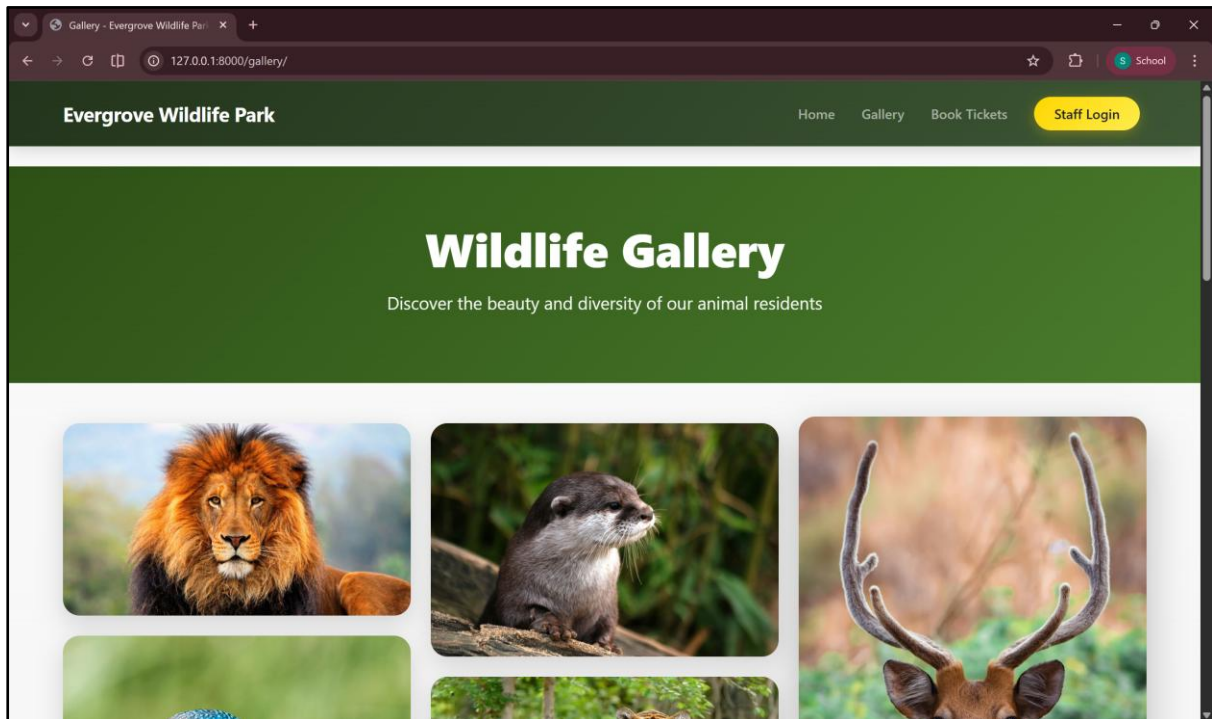


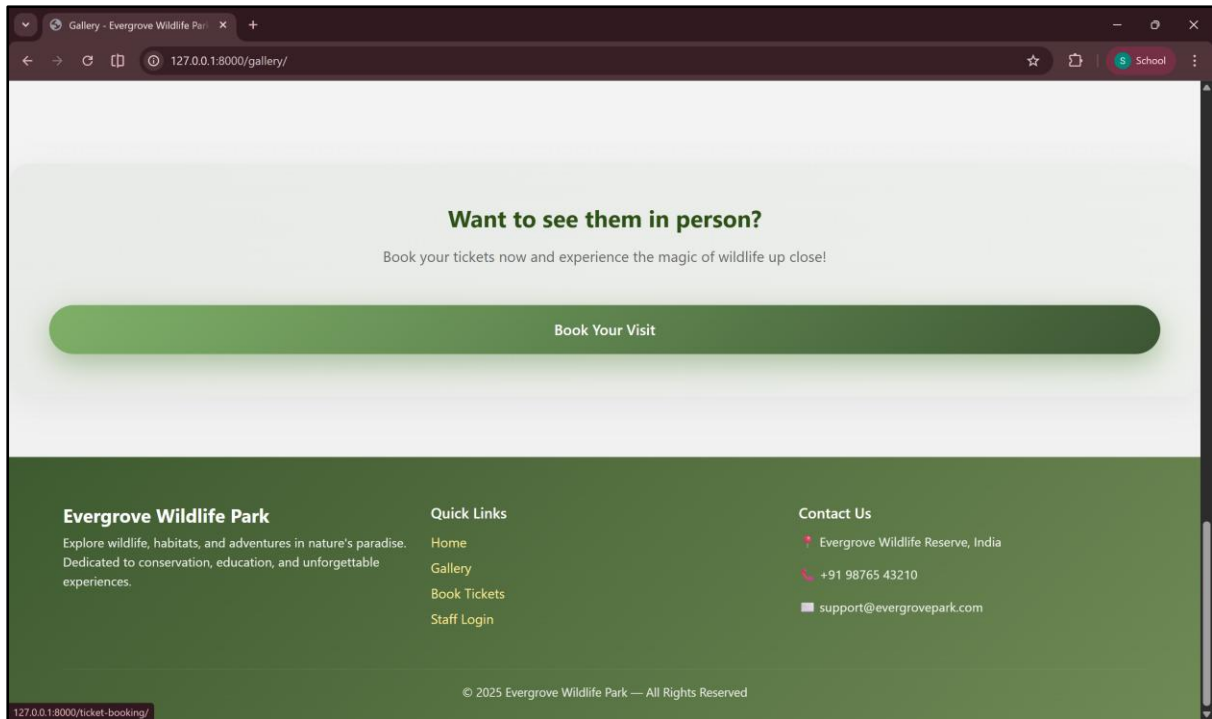
The page also features some of the animals in the national park.



Gallery

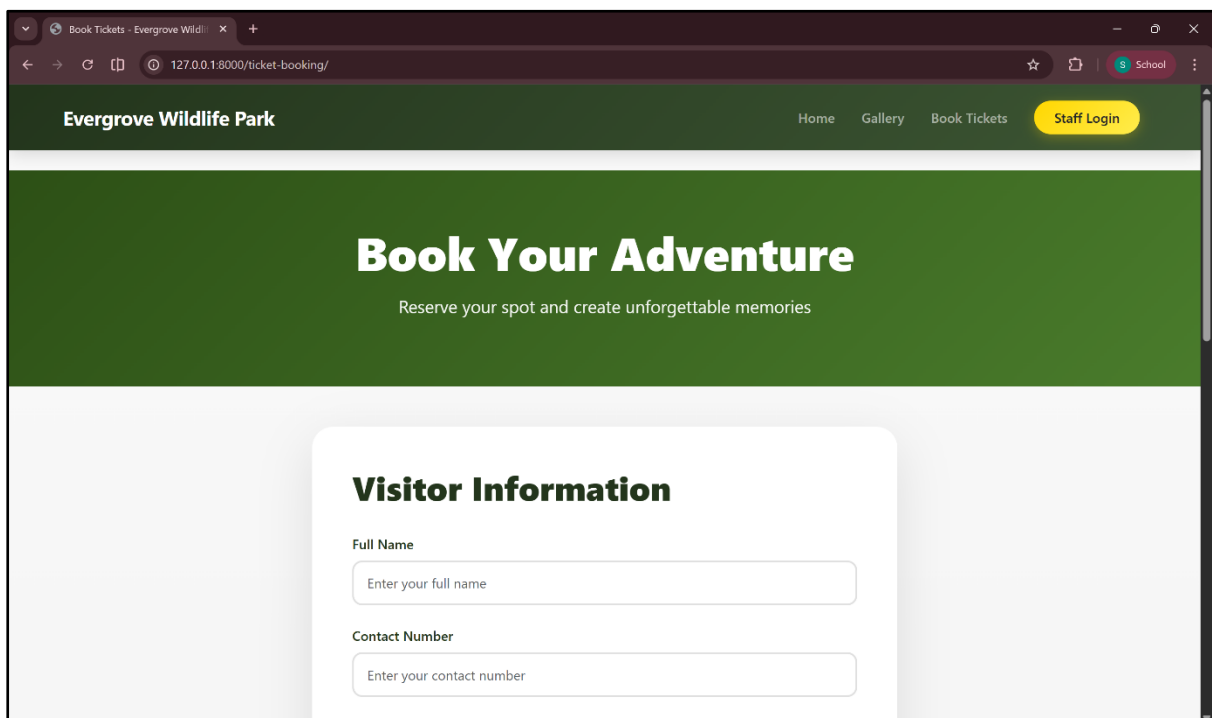
A clean, grid-style page displaying images of animals and habitats from the national park. Each image is presented inside a card layout to showcase the park's wildlife visually.





Ticket Booking Page

A structured form where visitors enter details such as name, contact number, visit date, ticket type, and quantity. The layout is simple and user-friendly to ensure easy ticket booking.



Book Tickets - Evergrove Wildl...

127.0.0.1:8000/ticket-booking/

School

Visitor Information

Full Name

Enter your full name

Contact Number

Enter your contact number

Visit Date

dd-mm-yyyy

Number of Visitors

1

* Maximum 5 visitors per ticket

Select Tour Package

Choose a package...

Confirm Booking

You are signed in x Full-Stack-2M x Inbox (559) x AWS Manager x database-1 x SecurityGroup x Book Tickets x Admin navbar x

127.0.0.1:8000/ticket-booking/

School

* Maximum 5 visitors per ticket


Select Tour Package

Tropical Adventure — ₹100.00 (120 hours)

Package Details


Tropical Adventure — ₹100.00 (120 hours)

Confirm Booking




Opening Hours

9:00 AM - 6:00 PM Daily



Easy Booking

Instant confirmation via email

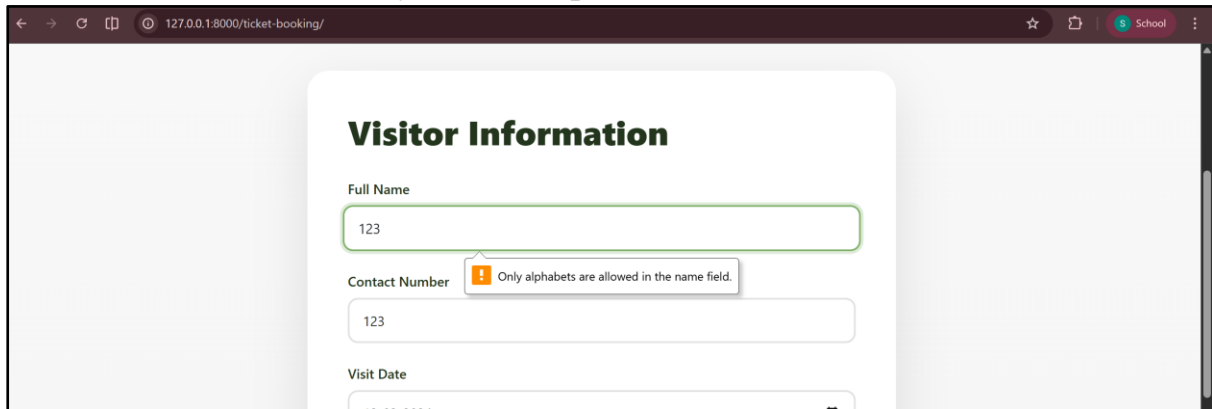


Family Friendly

Special packages for families

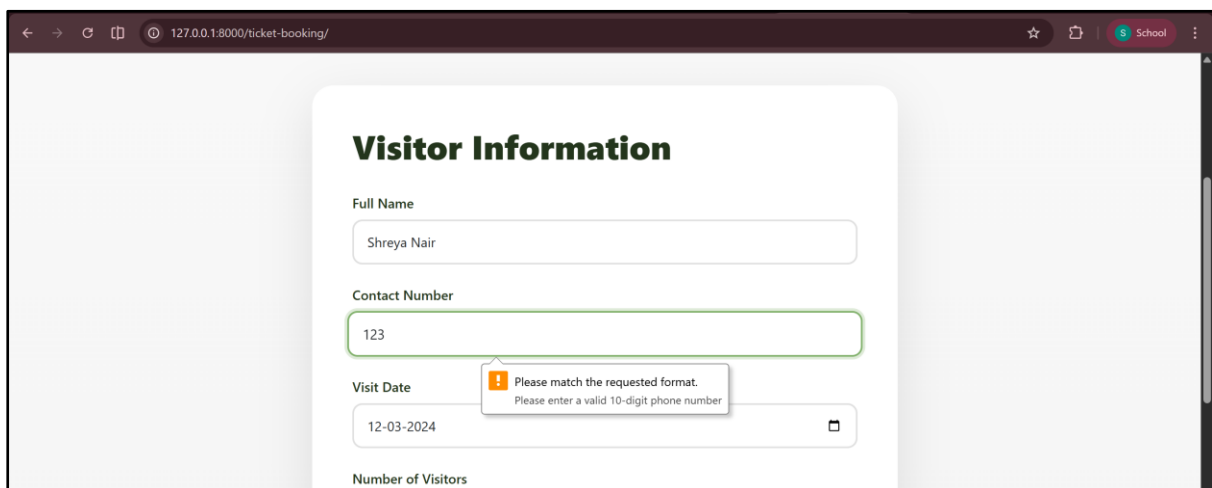
Validations in the ticket booking form.

The name field should only contain alphabets. No numbers are allowed.



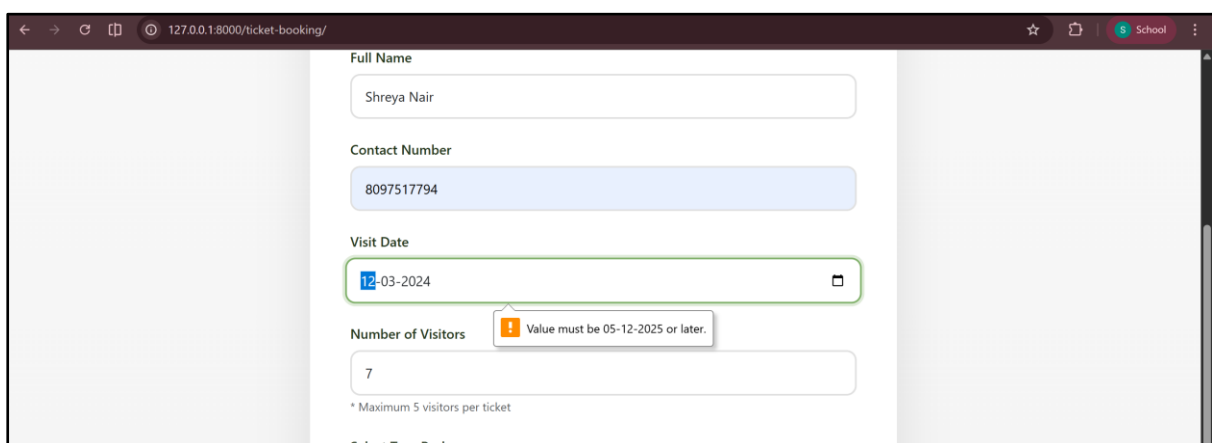
A screenshot of a web browser displaying a ticket booking form titled "Visitor Information". The form has three input fields: "Full Name", "Contact Number", and "Visit Date". The "Full Name" field contains the text "123" and is highlighted with a green border. A tooltip message with an orange exclamation mark icon says "Only alphabets are allowed in the name field." The "Contact Number" field contains "123". The "Visit Date" field contains "12-03-2024". The browser's address bar shows "127.0.0.1:8000/ticket-booking/" and the page title is "School".

The phone number should contain only 10 digits.



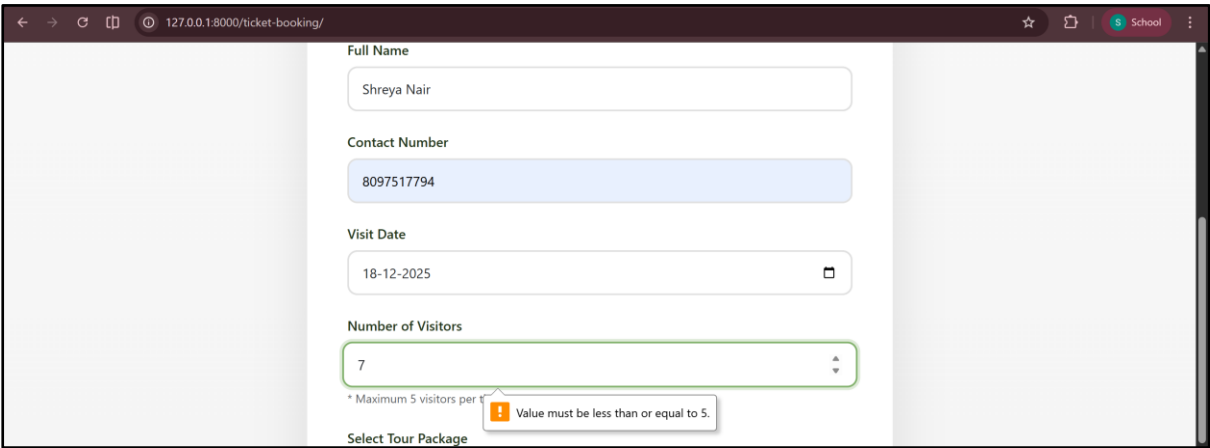
A screenshot of the same "Visitor Information" form. The "Full Name" field now contains "Shreya Nair". The "Contact Number" field contains "123" and is highlighted with a green border. A tooltip message with an orange exclamation mark icon says "Please match the requested format. Please enter a valid 10-digit phone number." The "Visit Date" field contains "12-03-2024". The browser's address bar shows "127.0.0.1:8000/ticket-booking/" and the page title is "School".

Past dates can't be selected for booking ticket.



A screenshot of the "Visitor Information" form. The "Full Name" field contains "Shreya Nair". The "Contact Number" field contains "8097517794" and is highlighted with a blue border. The "Visit Date" field contains "12-03-2024" and is highlighted with a green border. A tooltip message with an orange exclamation mark icon says "Value must be 05-12-2025 or later." The "Number of Visitors" field contains "7". Below the form, there is a note: "* Maximum 5 visitors per ticket". The browser's address bar shows "127.0.0.1:8000/ticket-booking/" and the page title is "School".

Tour package won't allow more than 5 visitor per ticket.



A screenshot of a web browser showing a ticket booking form. The form fields are: Full Name (Shreya Nair), Contact Number (8097517794), Visit Date (18-12-2025), and Number of Visitors (7). A validation error message is displayed below the Number of Visitors field, stating "Value must be less than or equal to 5." The browser's address bar shows the URL "127.0.0.1:8000/ticket-booking/".

Full Name
Shreya Nair

Contact Number
8097517794

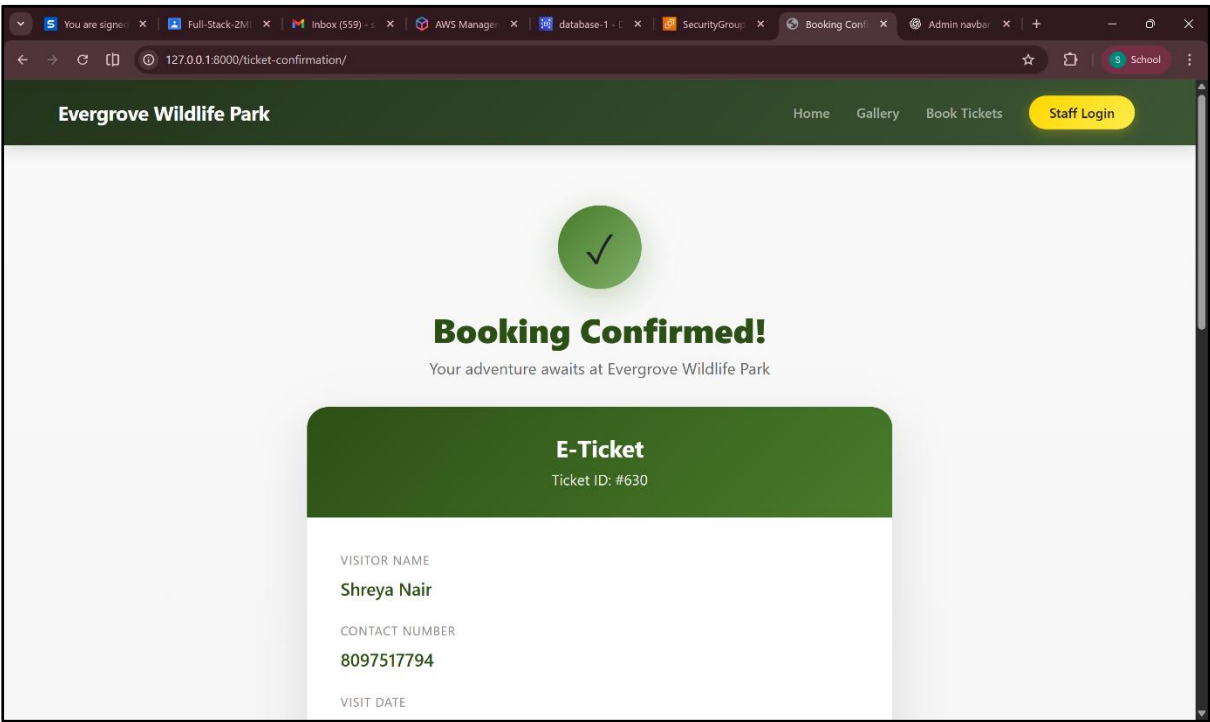
Visit Date
18-12-2025

Number of Visitors
7

* Maximum 5 visitors per ticket
Value must be less than or equal to 5.

Select Tour Package

Booking confirmation page



A screenshot of a web browser showing a booking confirmation page for Evergrove Wildlife Park. The page features a green header with the park's name and navigation links (Home, Gallery, Book Tickets, Staff Login). The main content area displays a large green checkmark icon, the text "Booking Confirmed!", and the message "Your adventure awaits at Evergrove Wildlife Park". Below this, an "E-Ticket" section shows the ticket ID #630 and a table with visitor details: Shreya Nair, contact number 8097517794, and visit date 18-12-2025. The browser's address bar shows the URL "127.0.0.1:8000/ticket-confirmation/".

Evergrove Wildlife Park

Home Gallery Book Tickets Staff Login

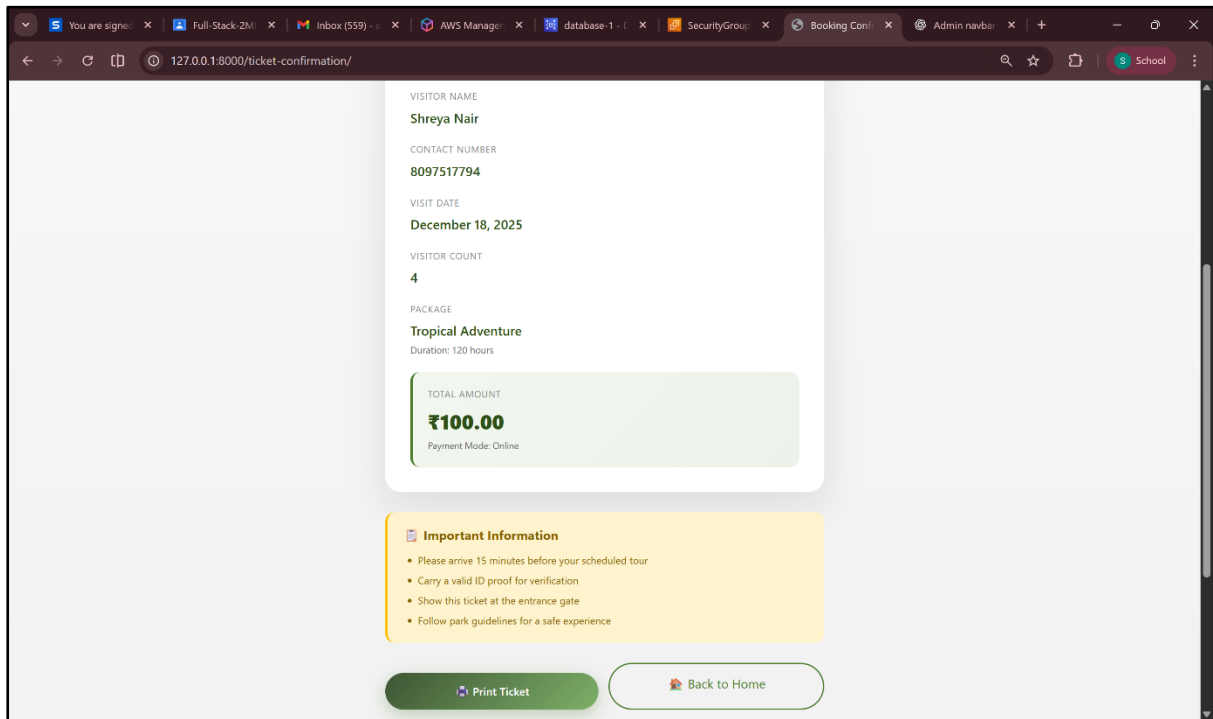
✓

Booking Confirmed!

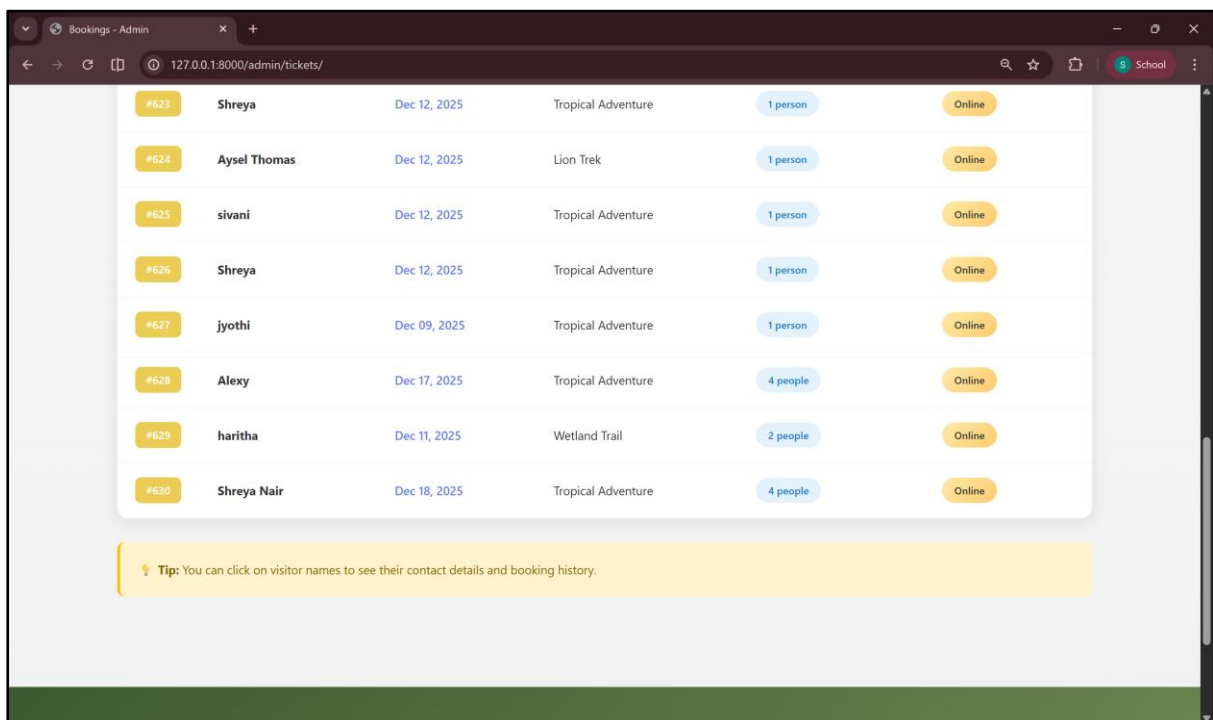
Your adventure awaits at Evergrove Wildlife Park

E-Ticket
Ticket ID: #630

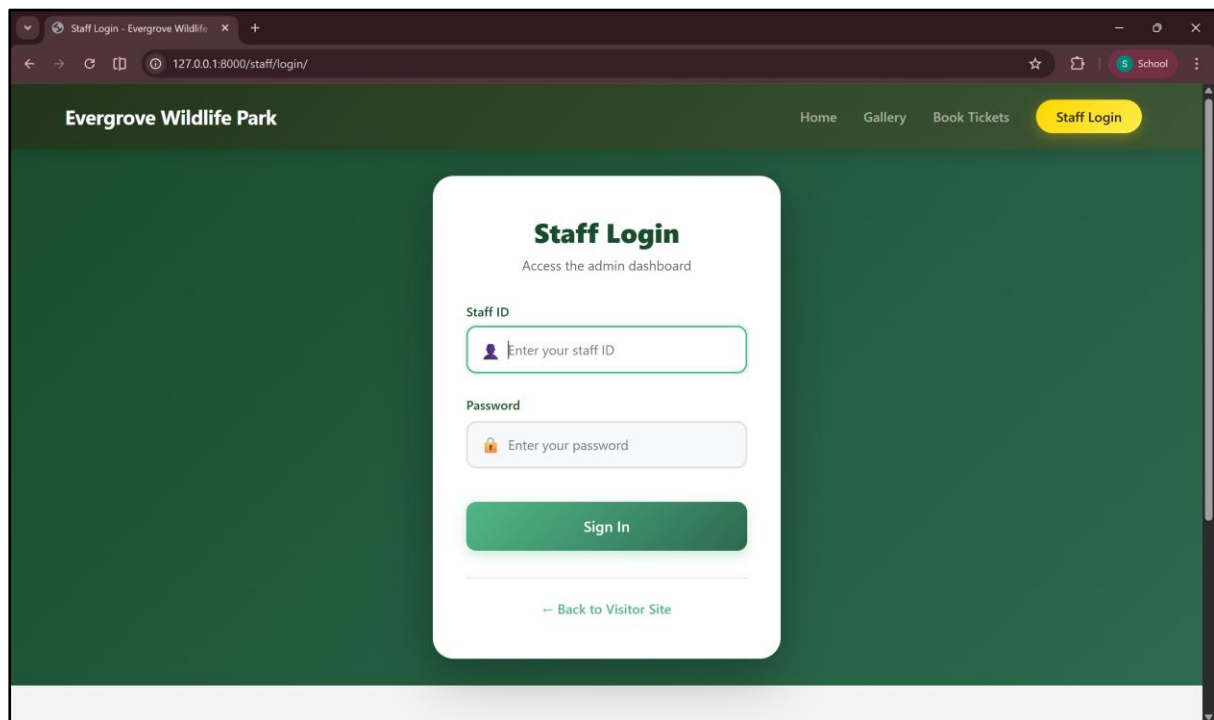
VISITOR NAME
Shreya Nair
CONTACT NUMBER
8097517794
VISIT DATE



The ticket booked is reflected in the admin ticket list

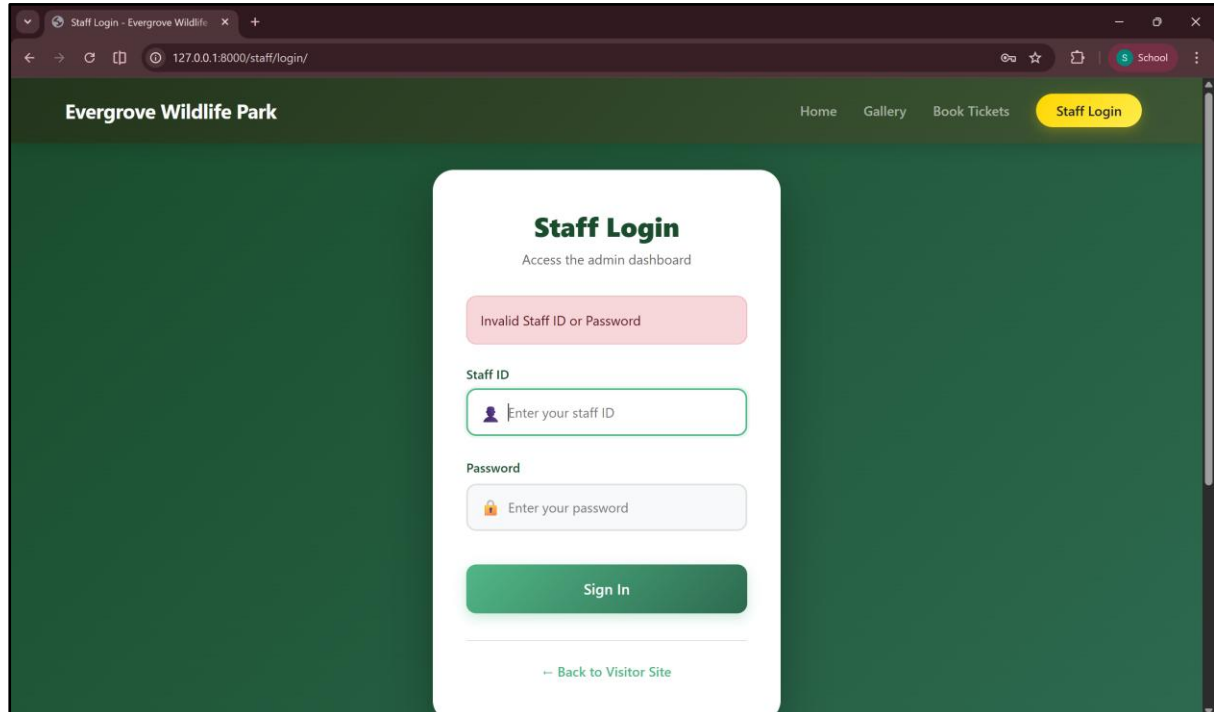


Staff login



A screenshot of a web browser displaying the 'Staff Login' page for Evergrove Wildlife Park. The browser's address bar shows '127.0.0.1:8000/staff/login/'. The page has a dark green header with the site name 'Evergrove Wildlife Park' and navigation links for 'Home', 'Gallery', 'Book Tickets', and a yellow 'Staff Login' button. The main content area is a white card with the title 'Staff Login' and the subtitle 'Access the admin dashboard'. It contains two input fields: 'Staff ID' with a person icon and 'Password' with a lock icon, both with placeholder text 'Enter your staff ID' and 'Enter your password' respectively. Below these is a green 'Sign In' button and a link that says '← Back to Visitor Site'.

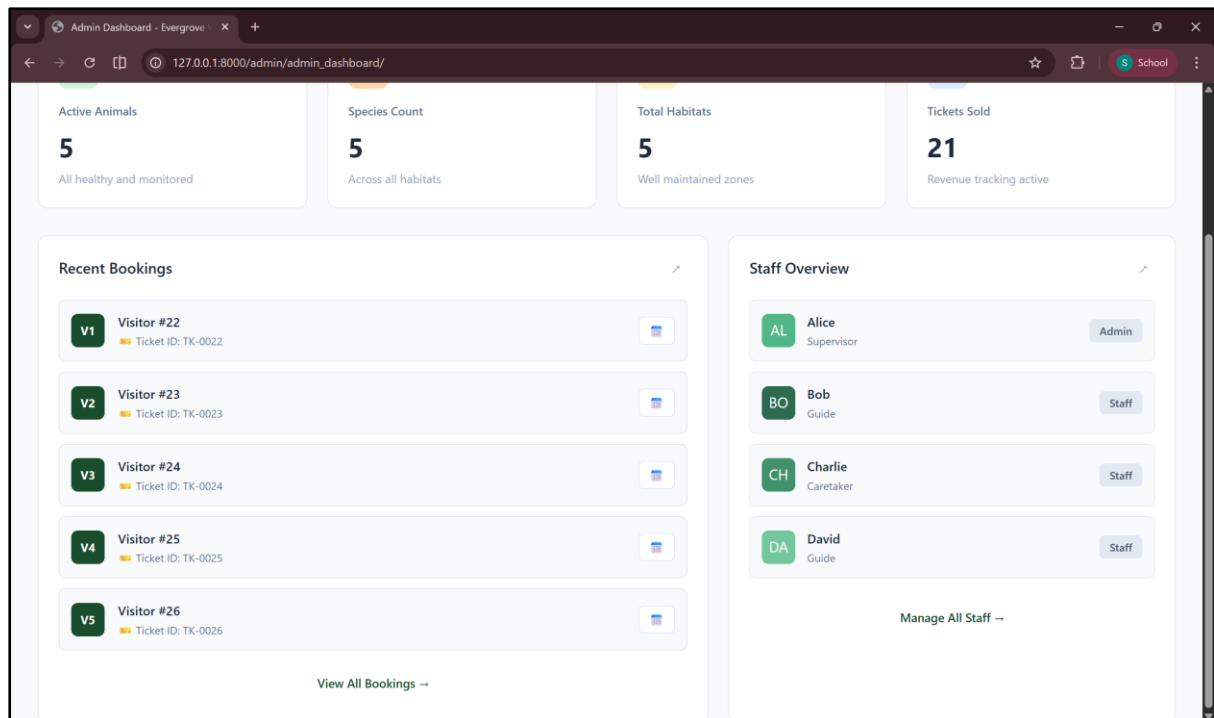
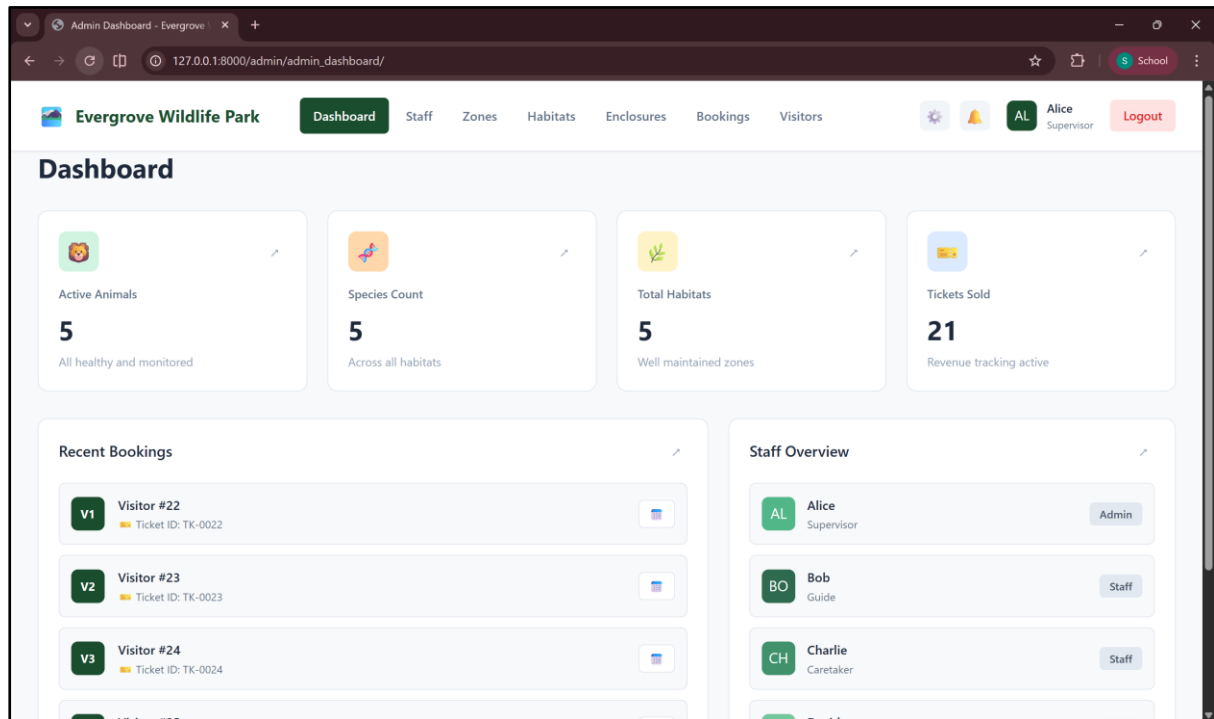
The passwords are assigned to each staff member they can login with only that password



A screenshot of the same 'Staff Login' page, but with an error message displayed. A pink banner at the top of the white card reads 'Invalid Staff ID or Password'. The 'Staff ID' and 'Password' input fields and the 'Sign In' button remain visible below the error message. The rest of the page layout, including the header and navigation, is identical to the previous screenshot.

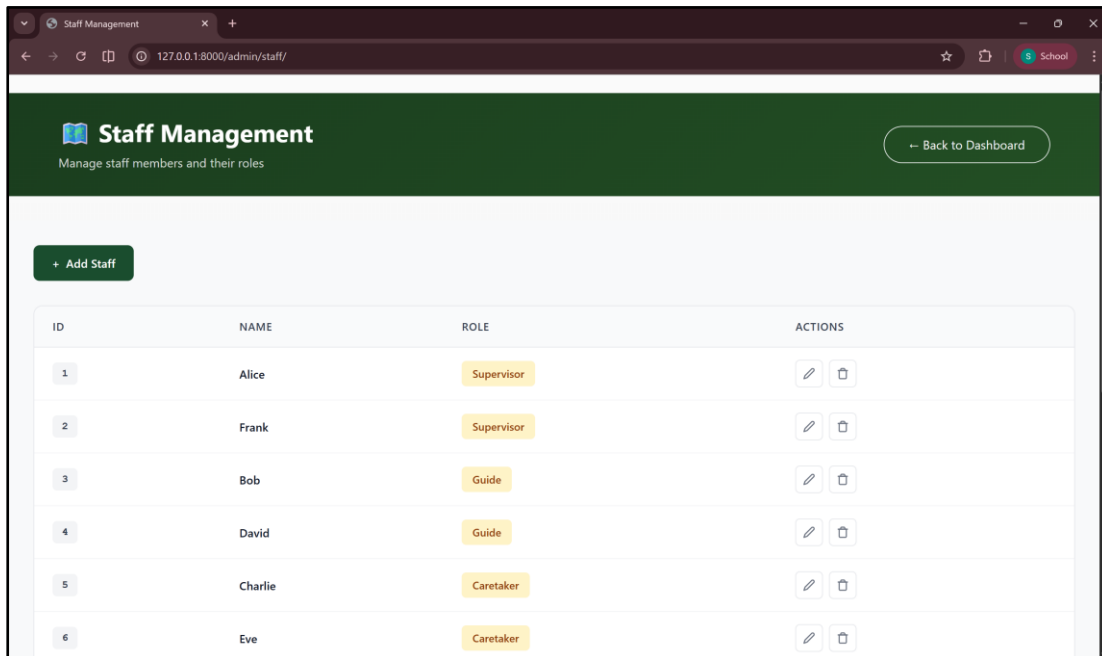
Admin dashboard













A central management screen that displays key navigation options like staff management, zones, habitats, enclosures, and other administrative sections. Acts as a hub for all backend operations.



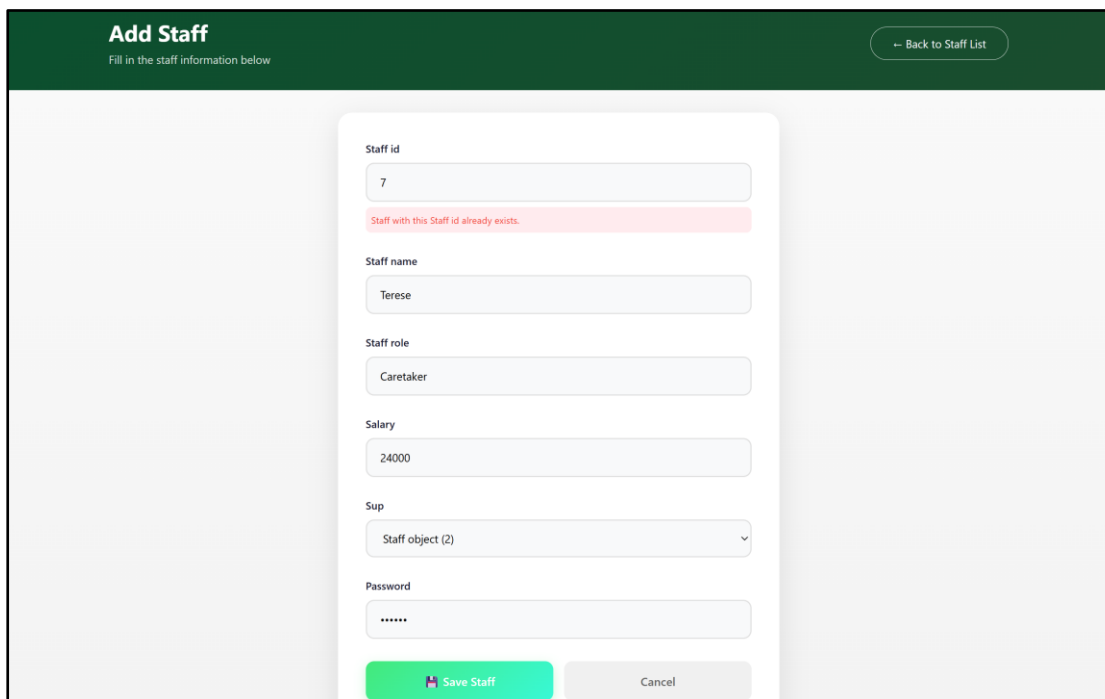
Staff management page

A table listing all staff members along with details such as ID, name, role, and available actions. Buttons for editing or deleting staff members are included for easy administration.



ID	NAME	ROLE	ACTIONS
1	Alice	Supervisor	 
2	Frank	Supervisor	 
3	Bob	Guide	 
4	David	Guide	 
5	Charlie	Caretaker	 
6	Eve	Caretaker	 

Adding a staff to the database. Cannot add staff with same staff id. Hence maintaining integrity of the database



Staff id

7

Staff with this Staff id already exists.

Staff name

Terese

Staff role

Caretaker

Salary

24000

Sup

Staff object (2)

Password

.....

Save Staff Cancel

Added a new staff Terese with staff_id = 10 to the staff

Add Staff

Fill in the staff information below

← Back to Staff List

Staff id

10

Staff name

Terese

Staff role

Caretaker

Salary

24000

Sup

Staff object (2)

Password

.....

Save Staff

Cancel

Staff Management

127.0.0.1:8000/admin/staff/

School

+ Add Staff

ID	NAME	ROLE	ACTIONS
1	Alice	Supervisor	<div><div></div><div></div></div>
2	Frank	Supervisor	<div><div></div><div></div></div>
3	Bob	Guide	<div><div></div><div></div></div>
4	David	Guide	<div><div></div><div></div></div>
5	Charlie	Caretaker	<div><div></div><div></div></div>
6	Eve	Caretaker	<div><div></div><div></div></div>
7	Grace	Caretaker	<div><div></div><div></div></div>
8	Aysel	Guide	<div><div></div><div></div></div>
9	Shreya	Caretaker	<div><div></div><div></div></div>
10	Terese	Caretaker	<div><div></div><div></div></div>

Updating Staff details. Changed role of David from guide to Caretaker.

Edit Staff - Admin

127.0.0.1:8000/admin/staff/4/edit/

School

Edit Staff

Fill in the staff information below

← Back to Staff List

Staff id

4

Staff name

David

Staff role

Caretaker

Salary

20000.00

Sup

Staff object (1)

Password

Staff Management

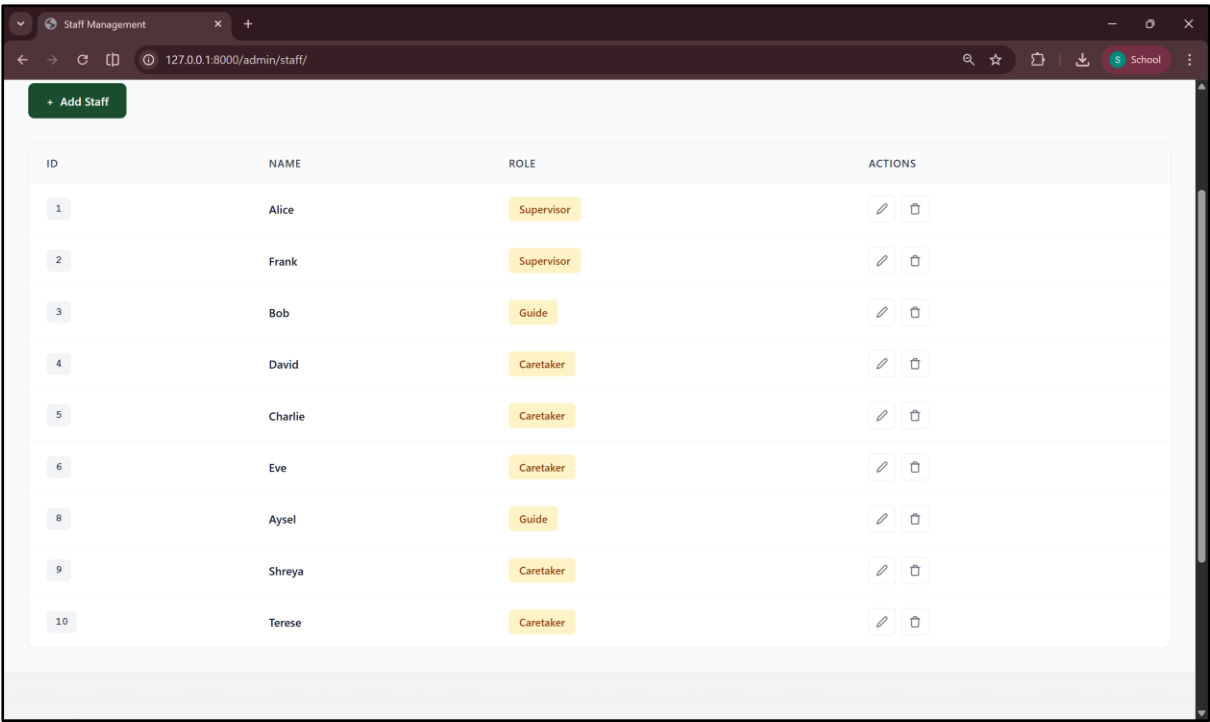
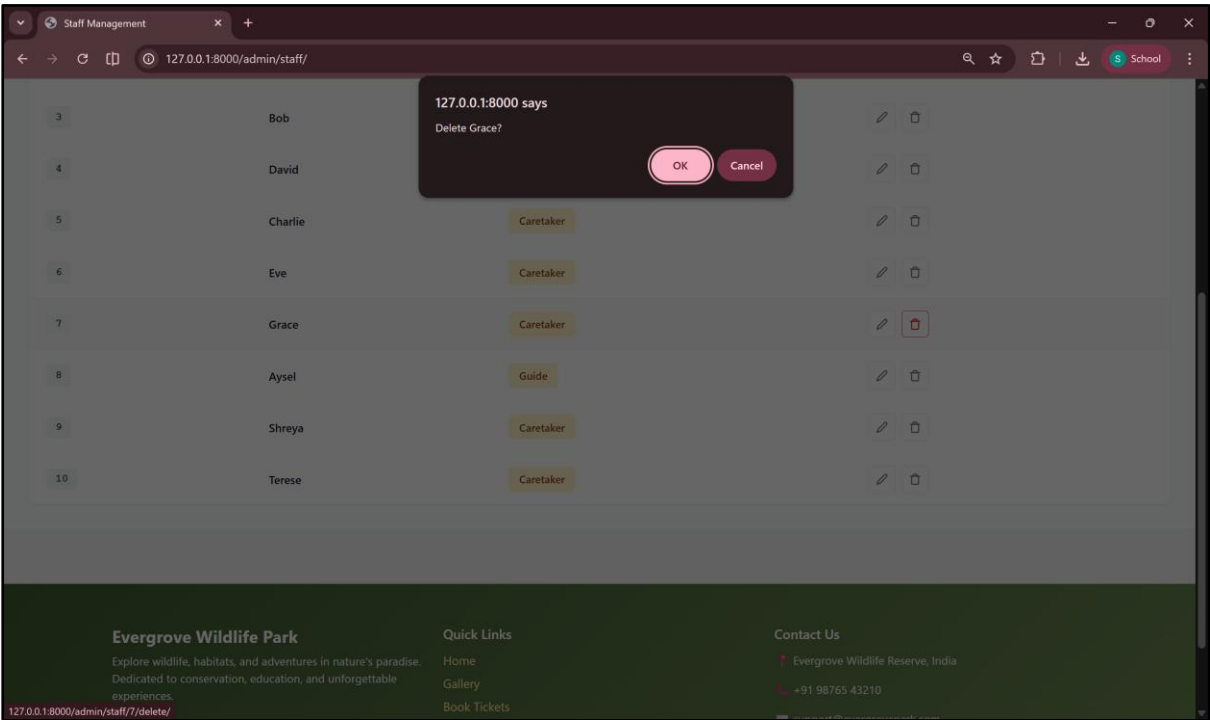
127.0.0.1:8000/admin/staff/

School

+ Add Staff

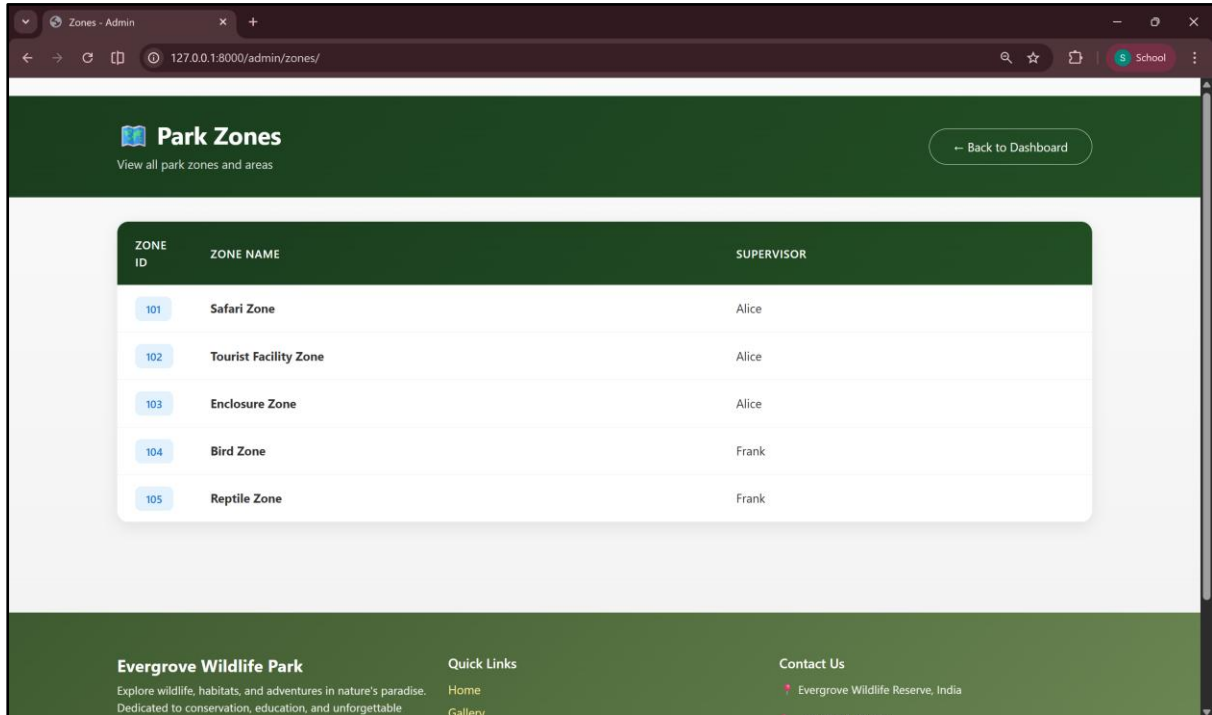
ID	NAME	ROLE	ACTIONS
1	Alice	Supervisor	<div><div></div><div></div></div>
2	Frank	Supervisor	<div><div></div><div></div></div>
3	Bob	Guide	<div><div></div><div></div></div>
4	David	Caretaker	<div><div></div><div></div></div>
5	Charlie	Caretaker	<div><div></div><div></div></div>
6	Eve	Caretaker	<div><div></div><div></div></div>
7	Grace	Caretaker	<div><div></div><div></div></div>
8	Aysel	Guide	<div><div></div><div></div></div>
9	Shreya	Caretaker	<div><div></div><div></div></div>
10	Terese	Caretaker	<div><div></div><div></div></div>

Deleting a staff member. Removed Grace's Details from the database.



Zone List

Shows a list of administrative zones the park is divided into



ZONE ID	ZONE NAME	SUPERVISOR
101	Safari Zone	Alice
102	Tourist Facility Zone	Alice
103	Enclosure Zone	Alice
104	Bird Zone	Frank
105	Reptile Zone	Frank

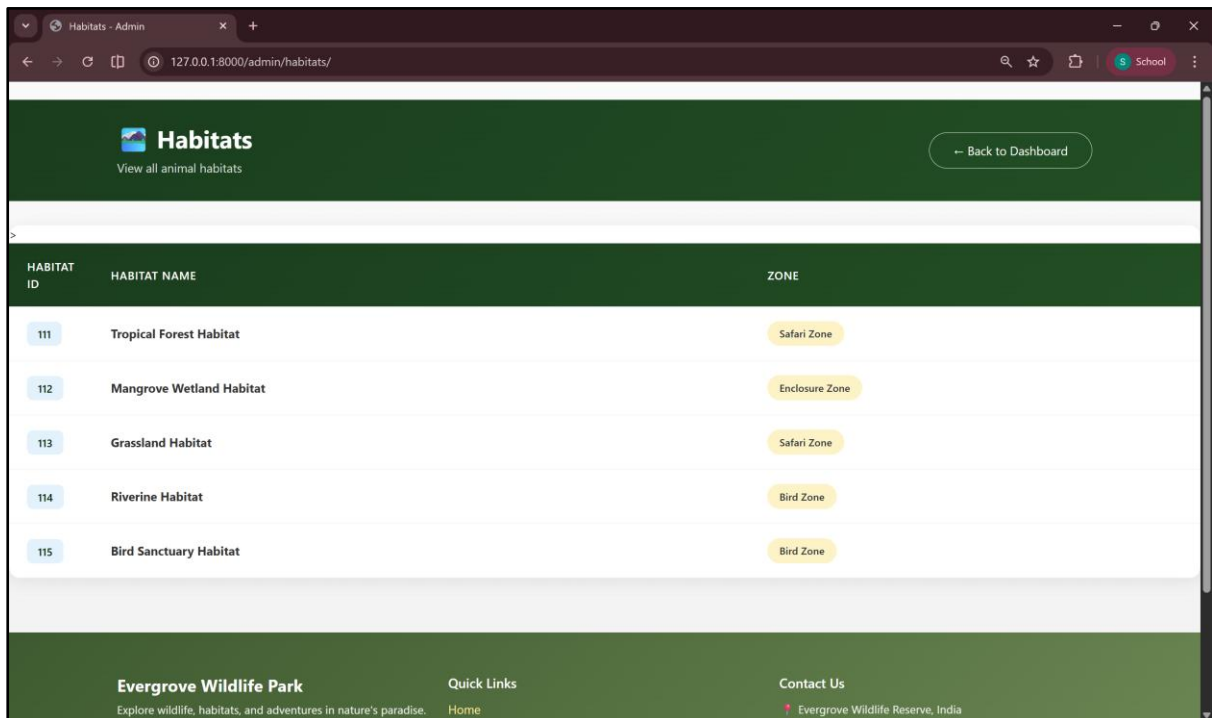
Evergrove Wildlife Park
Explore wildlife, habitats, and adventures in nature's paradise.
Dedicated to conservation, education, and unforgettable

Quick Links
[Home](#)
[Gallery](#)

Contact Us
Evergrove Wildlife Reserve, India
+91 98765 43210

Habitat list

Shows a list of Habitats in the park.



HABITAT ID	HABITAT NAME	ZONE
111	Tropical Forest Habitat	Safari Zone
112	Mangrove Wetland Habitat	Enclosure Zone
113	Grassland Habitat	Safari Zone
114	Riverine Habitat	Bird Zone
115	Bird Sanctuary Habitat	Bird Zone

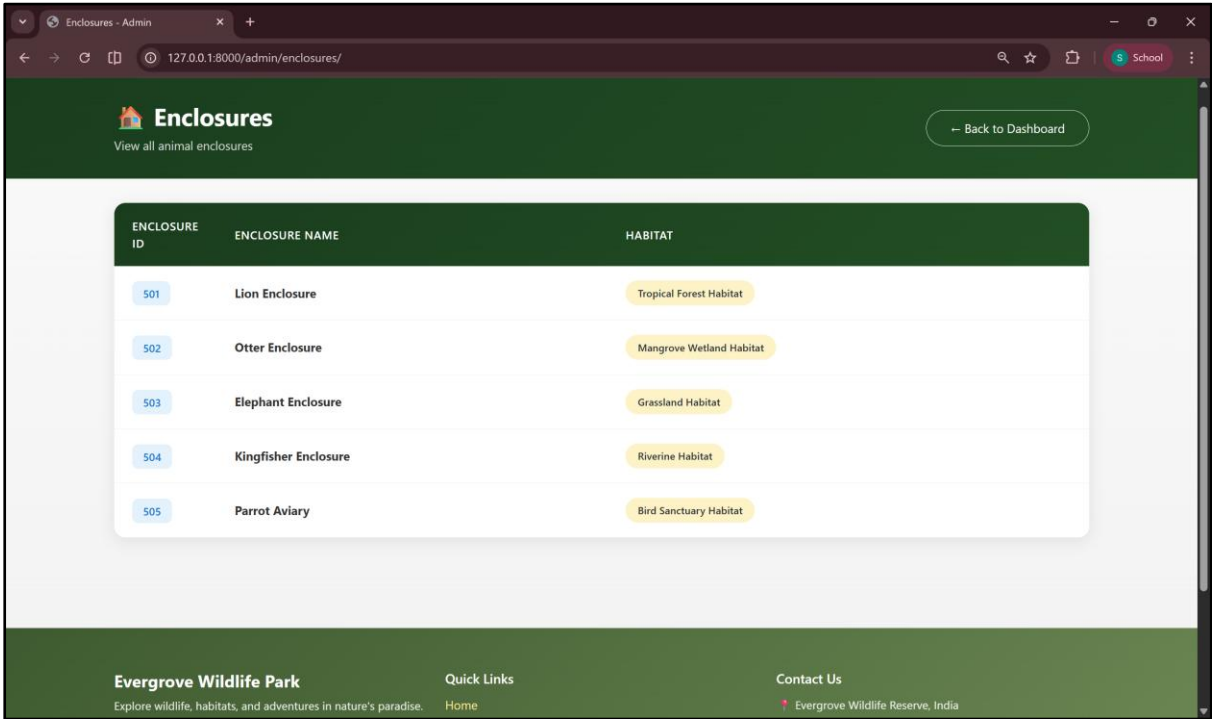
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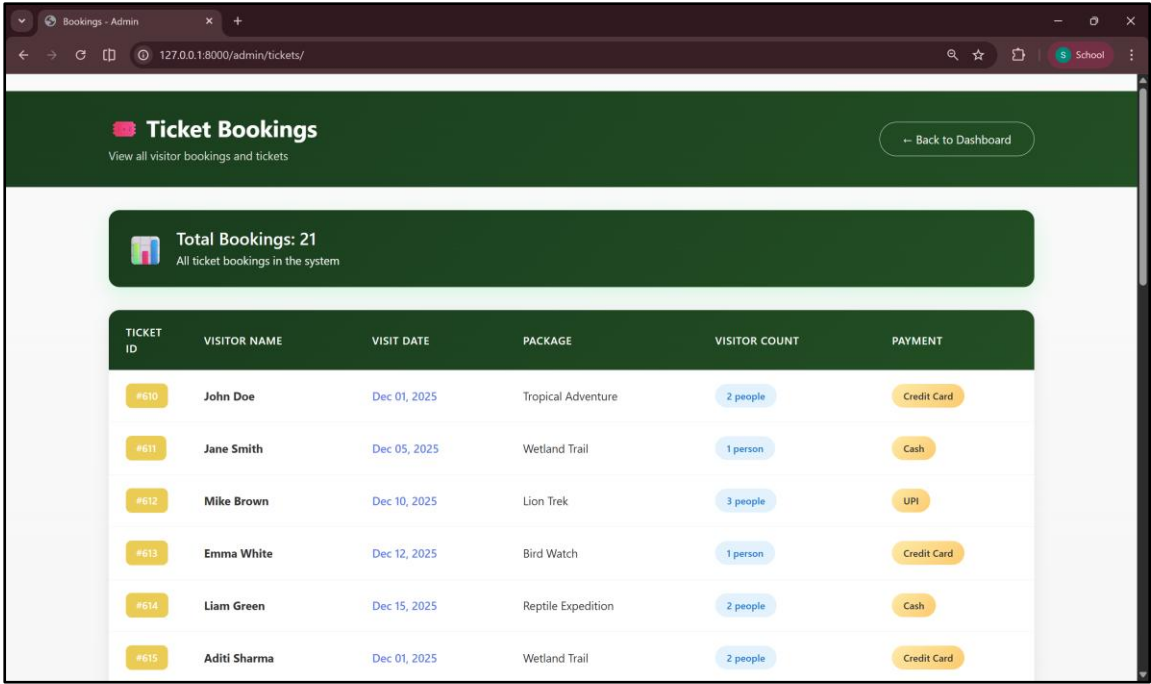
Enclosure List

Shows a list of enclosures in the national park



Ticket List

Shows a list of bookings done.



Visitors List

Shows a list of registered visitors.

The screenshot displays a web application titled "Visitor Management" with a subtitle "View all registered visitors". A "Back to Dashboard" button is located in the top right corner. Below the header, a green box shows "Total Visitors: 23" with a subtitle "All registered visitors in the system". A search bar is provided with the placeholder text "Search visitors by name or contact...". Below the search bar is a table with the following data:

VISITOR ID	NAME	CONTACT NUMBER	ACTIONS
#121	John Doe	9876543210	View
#122	Jane Smith	9123456780	View
#123	Mike Brown	9988776655	View

Workflow of the Website

The website operates through two primary modules: the **visitor-facing interface** and the **admin management system**. Visitors begin their journey on the Home Page, where they are introduced to the national park through a hero banner, brief description, and highlighted animals. From here, they can explore the Gallery to view images of wildlife and habitats, or proceed directly to the Ticket Booking section.

The booking process is guided through a structured form that collects essential visitor details such as name, contact number, visit date, ticket type, and number of visitors. Built-in validations ensure data accuracy only alphabetic names, valid 10-digit phone numbers, future dates, and a maximum of five visitors per ticket. Once the form is submitted successfully, users are taken to a confirmation page summarizing their booking, and the information is simultaneously stored and reflected on the admin side.

For internal operations, staff members log in through a dedicated login page, after which they gain access to the Admin Dashboard. This dashboard serves as the central hub for managing park data. Key functionalities include:

- **Staff Management** – adding new staff, updating roles, and removing records where necessary.
- **Zone, Habitat, and Enclosure Lists** – allowing administrators to view and maintain park structural information.
- **Ticket and Visitor Lists** – providing real-time access to all bookings and registered visitors for operational oversight.

This workflow ensures that visitors have a smooth booking experience while administrators can efficiently manage the backend through organized, database-driven interfaces.

Conclusion

This project successfully integrates essential functionalities required for modern national park management by combining intuitive user interfaces with robust backend operations. The platform enhances visitor engagement through features like galleries and seamless ticket booking, while simultaneously supporting administrators with secure authentication and comprehensive management tools for staff, zones, habitats, enclosures, and bookings.

Digitizing these processes minimizes manual errors, improves data accuracy, and streamlines daily operations within the park. The system promotes efficiency, transparency, and ease of use, making it a valuable digital solution for eco-tourism environments.

With potential future enhancements—such as online payments, real-time analytics, wildlife tracking, and mobile application integration—the platform can evolve into a full-fledged management ecosystem that strengthens conservation efforts and enriches the visitor experience.