MALNAD COLLEGE OF ENGINEERING
HASSAN

Department of Information Science and Engineering

Course title : Mini Project - 2

Course code : 21IS607

ZOO MANAGEMENT SYSTEM (ZMS)

Under the guidance of

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INTRODUCTION

- A Zoo Management System (ZMS) is essential for efficiently organizing and running a zoo's operations.
- This system ensures proper care of animals, smooth visitor experiences, and effective resource allocation.
- This system integrates comprehensive animal records, exhibit management tools, and staff scheduling capabilities to ensure optimal care and management of the zoo's diverse species.

PROBLEM STATEMENT

The existing zoo management system faces challenges such as outdated technology leading to inefficiencies in animal record management and exhibit monitoring. Safety protocols may be insufficient, compromising animal and visitor security. Overall, the system needs upgrading to improve operational efficiency, enhance visitor experiences, and ensure comprehensive animal welfare and conservation efforts.

EXISTING SYSTEM

- The existing system leads to inefficiencies in animal record management and exhibit monitoring. As they often relies on manual processes, making it is time-consuming and prone to human errors.
- This traditional approach lacks the efficiency and precision that an automated system can provide.
- Zoo Management System (ZMS) offers a modern alternative, introducing a dynamic and intelligent solution to enhance the overall resource allocation process.

PROPOSED SYSTEM

- The proposed system helps the Zoo’s Management to efficiently allot animals their place and record their health on a regular basis.
- Leveraging advanced algorithms, it ensures a fair and optimized resource allocation.
- The system introduces features like intelligent matching, considering animal preferences and expertise, leading to a balanced workload distribution.
- This automated approach enhances efficiency, reduces manual errors, and provides a seamless experience for effective collection of animal records, exhibit management tools, and staff scheduling capabilities to ensure optimal care and management of the zoo's diverse species.

REQUIRMENT SPECIFICATION

FUNCTIONAL REQUIREMENTS

- **Animal Records:** Maintain detailed records of each animal including species, age, medical history, diet, habitat requirements, and any special needs.
- **Visitor Management:** Track visitor information, manage visitor flow, and ensure a safe and enjoyable experience for all guests.
- **Enclosure Management:** Track which animals are housed in which enclosures, their grouping, and ensure appropriate space and environmental conditions.
- **Health Monitoring:** Record health checks, vaccinations, treatments, and medical histories for each animal.
- **Feeding Schedules:** Manage feeding schedules and dietary requirements based on individual animal needs.
- **Scalability:** Ability to scale the system as the zoo grows in size or complexity.

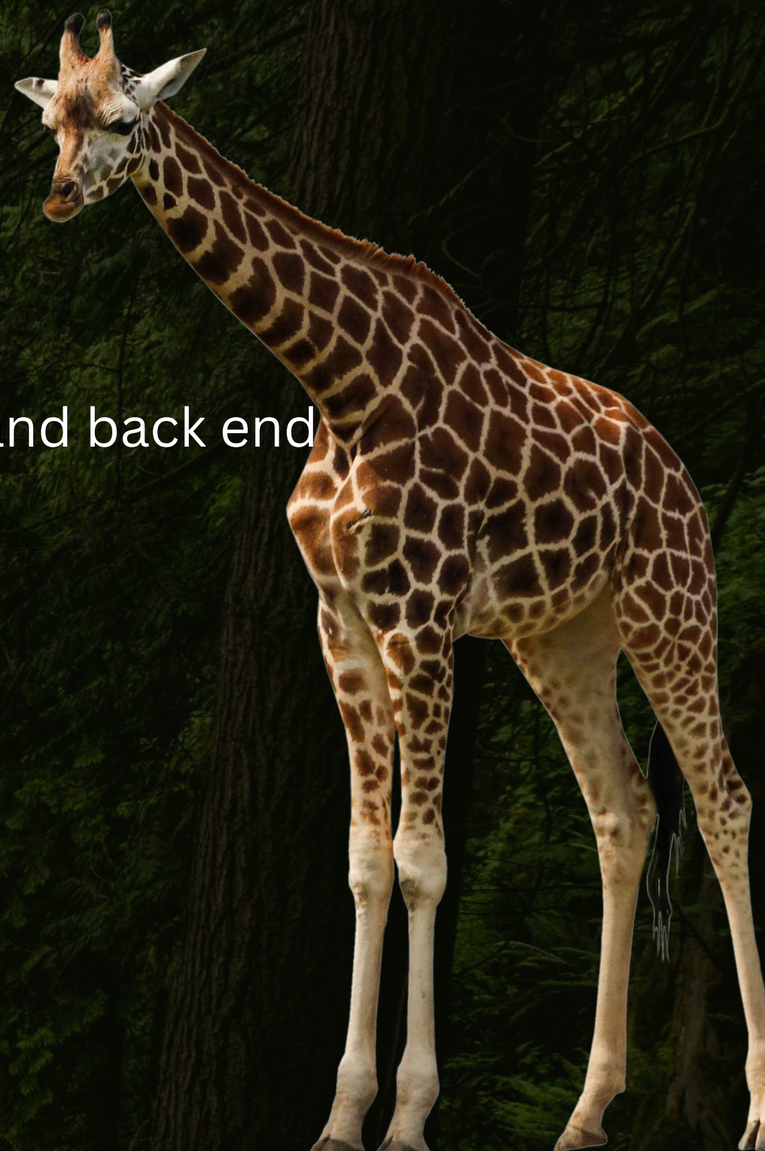
NON - FUNCTIONAL REQUIREMENTS

SOFTWARE REQUIREMENTS

MySQL – For back-end (to store databases).
HTML,CSS,PHP - For front-end design.
XAMPP server to establish the connection between front end and back end

HARDWARE REQUIREMENTS

Processor: Core i3 Processor or above
RAM: 4GB or more RAM
Hard disk: 512GB or more Hard Disk Drive (HDD)



SYSTEM DESIGN

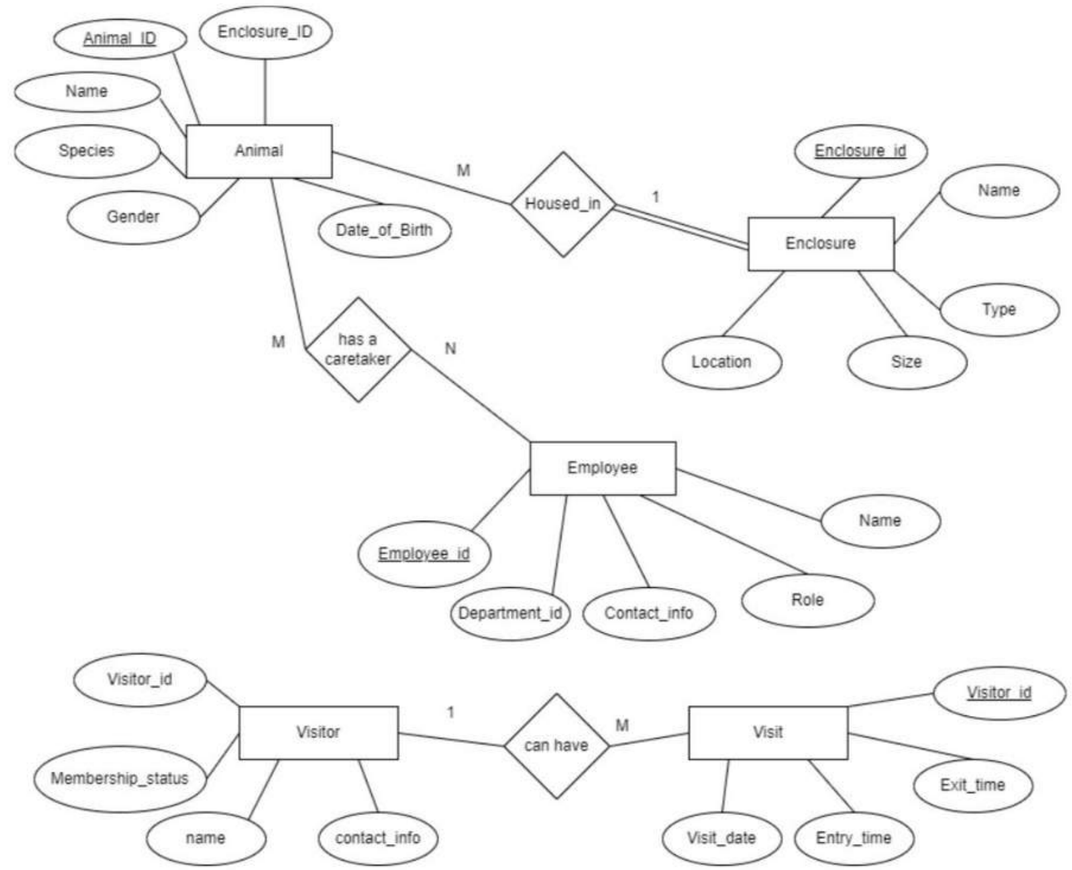
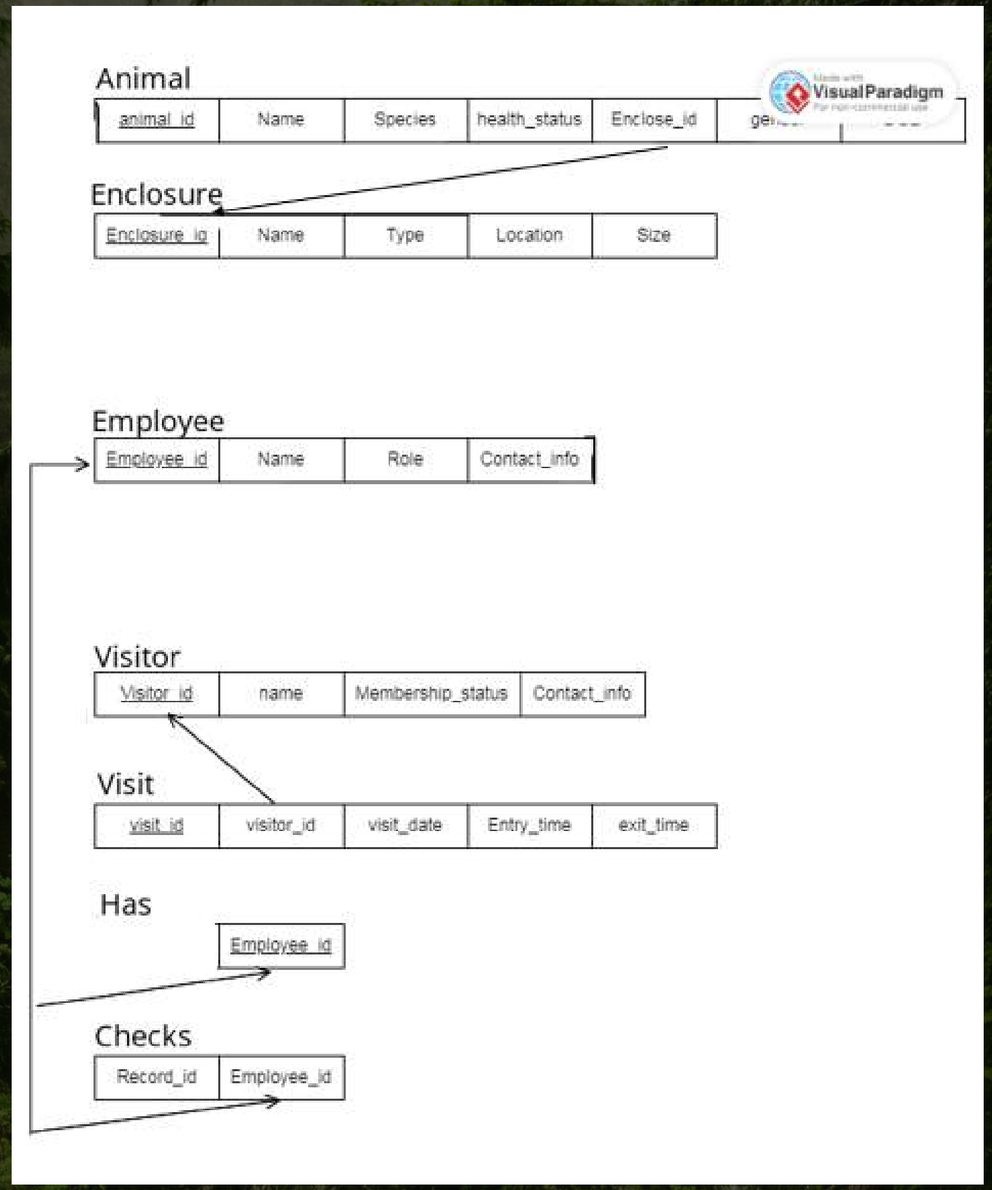


Figure: 3.1: ER Diagram

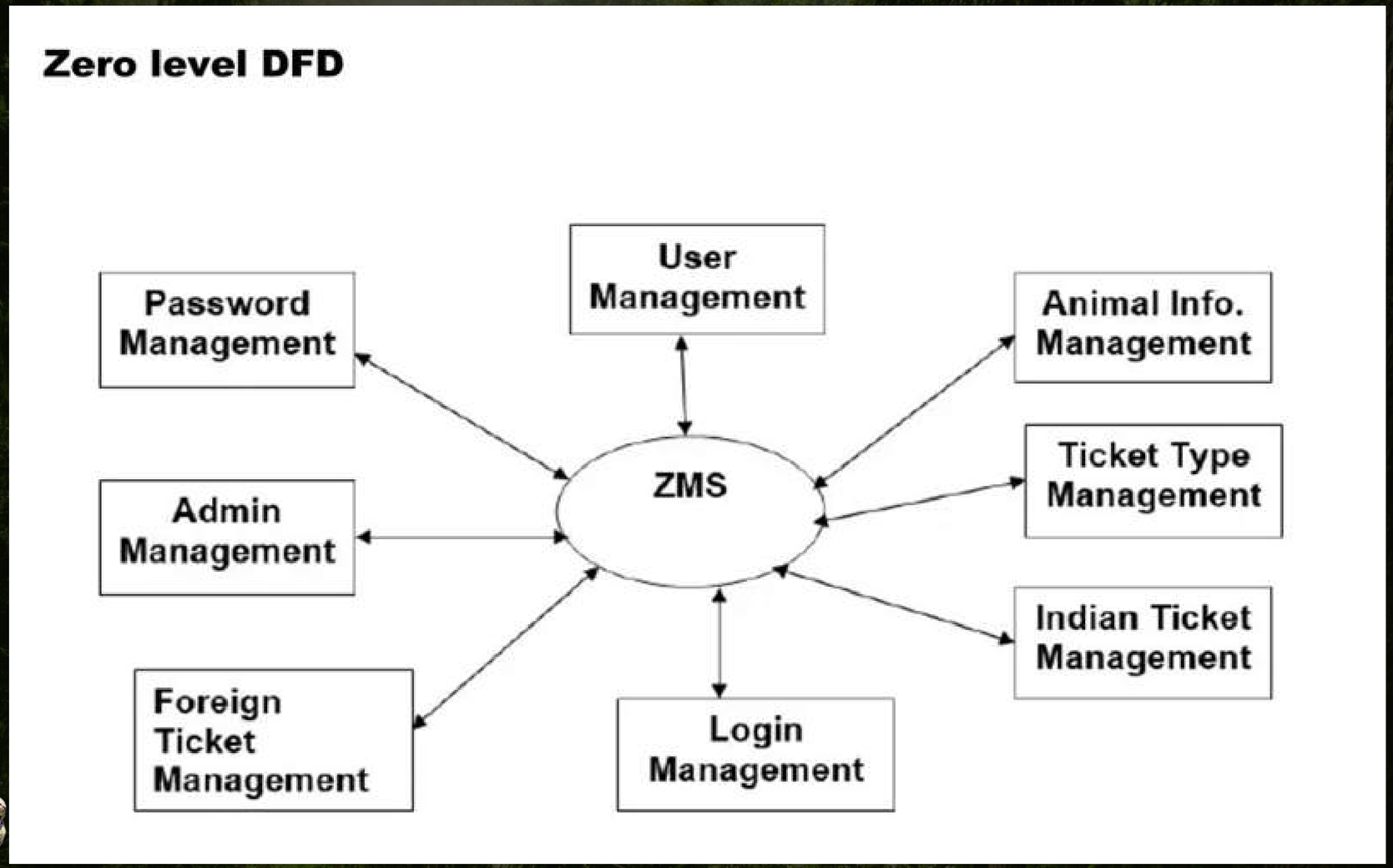
ER DIAGRAM

SYSTEM DESIGN



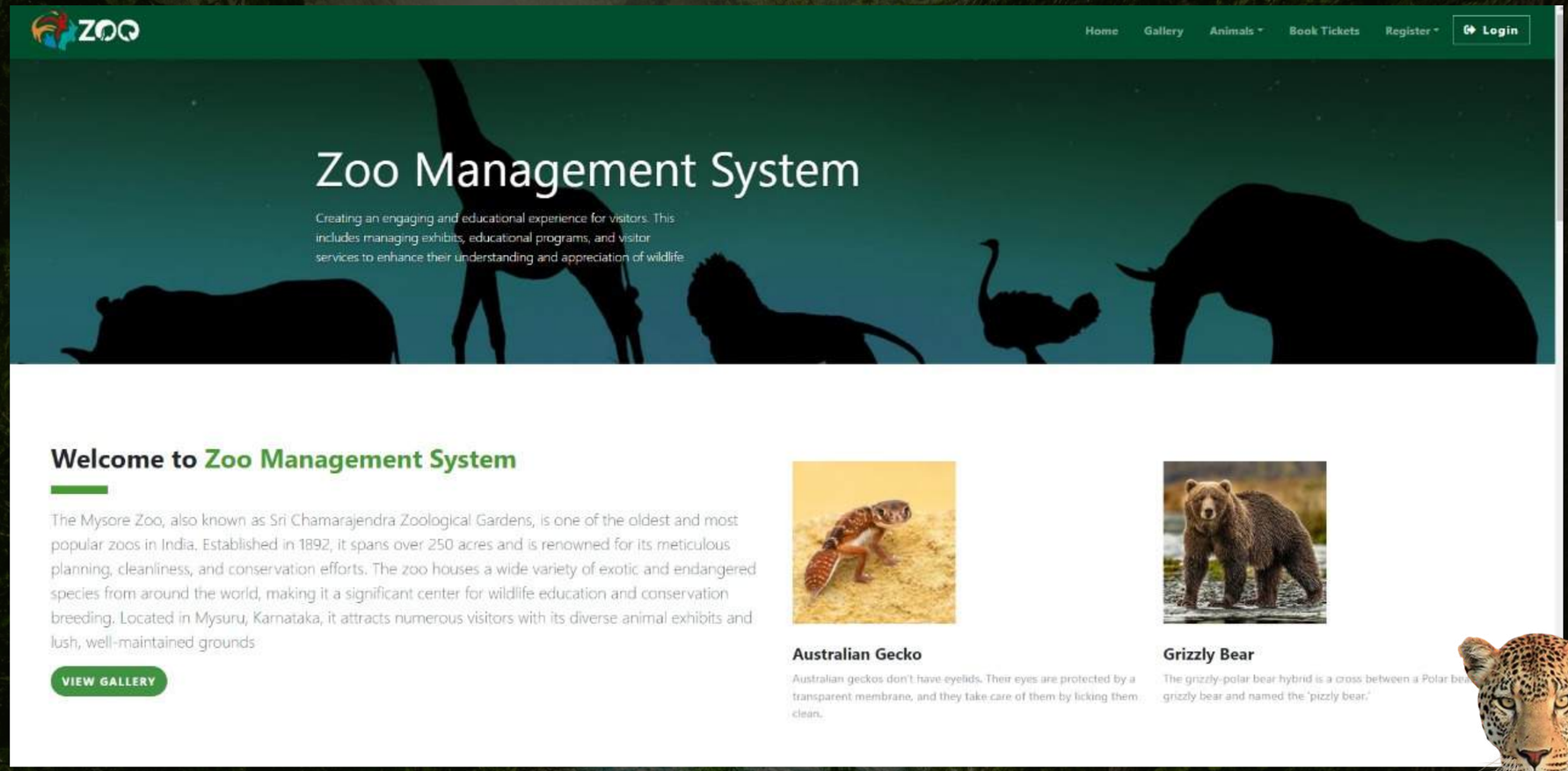
SCHEMA DIAGRAM

SYSTEM DESIGN

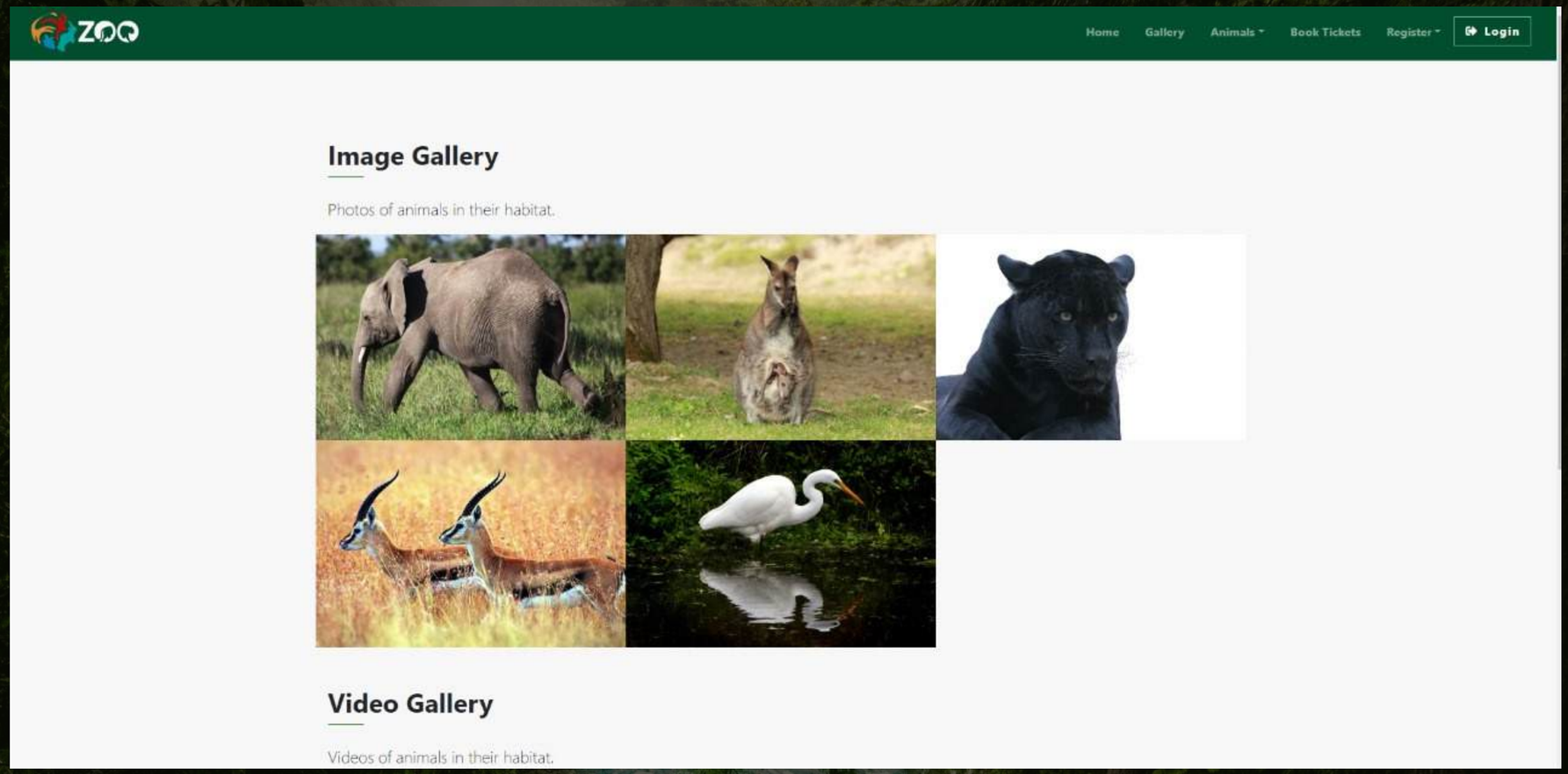


DATAFLOW DIAGRAM

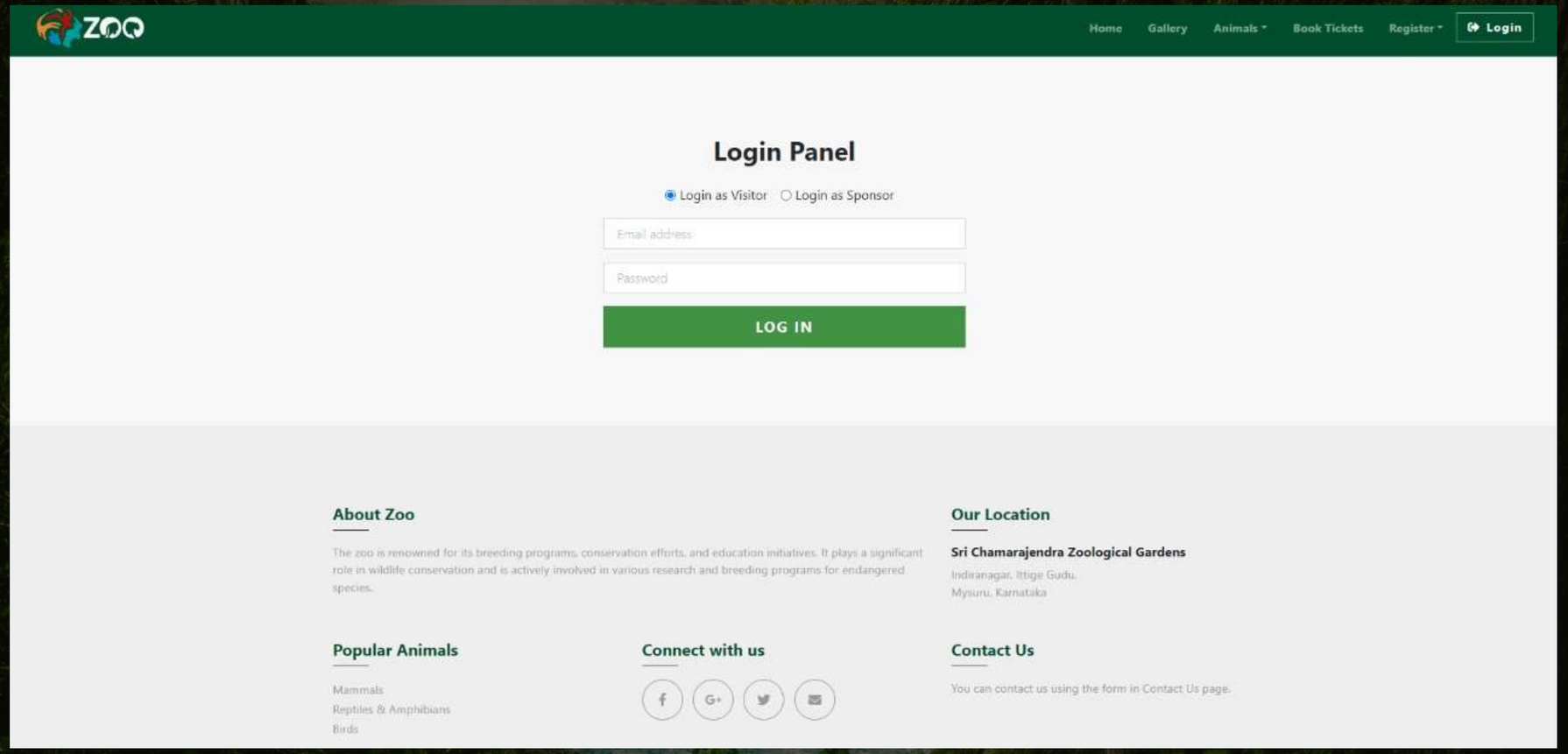
SNAPSHOTS



WELCOME PAGE



GALLERY PAGE


ZOO
Home
Gallery
Animals
Book Tickets
Register
Login
Login Panel
Login as Visitor
Login as Sponsor
Email address
Password
LOG IN
About Zoo
The zoo is renowned for its breeding programs, conservation efforts, and education initiatives. It plays a significant role in wildlife conservation and is actively involved in various research and breeding programs for endangered species.
Our Location
Sri Chamarajendra Zoological Gardens
Indiranagar, Ittige Gudu,
Mysuru, Karnataka
Popular Animals
Mammals
Reptiles & Amphibians
Birds
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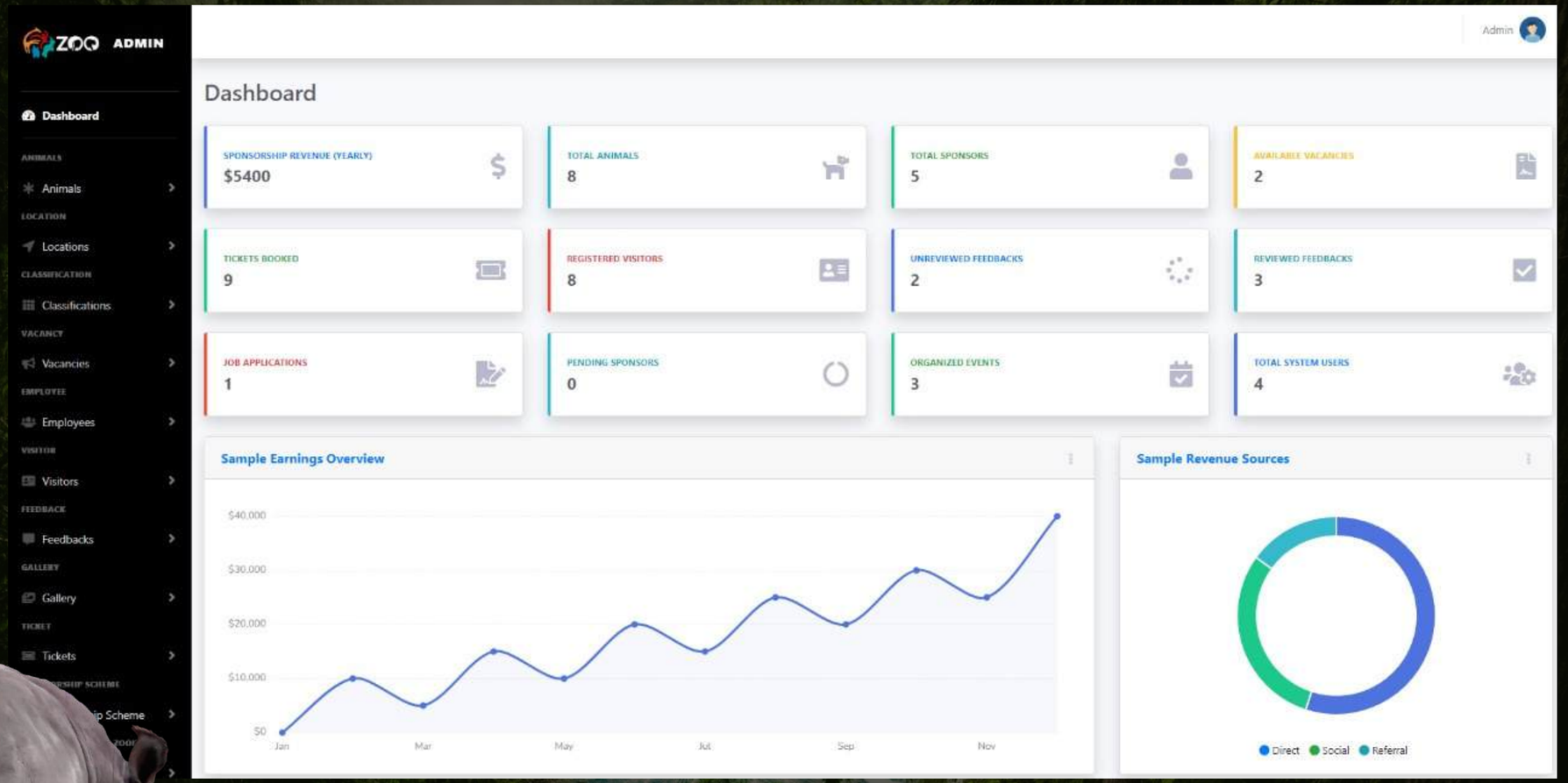
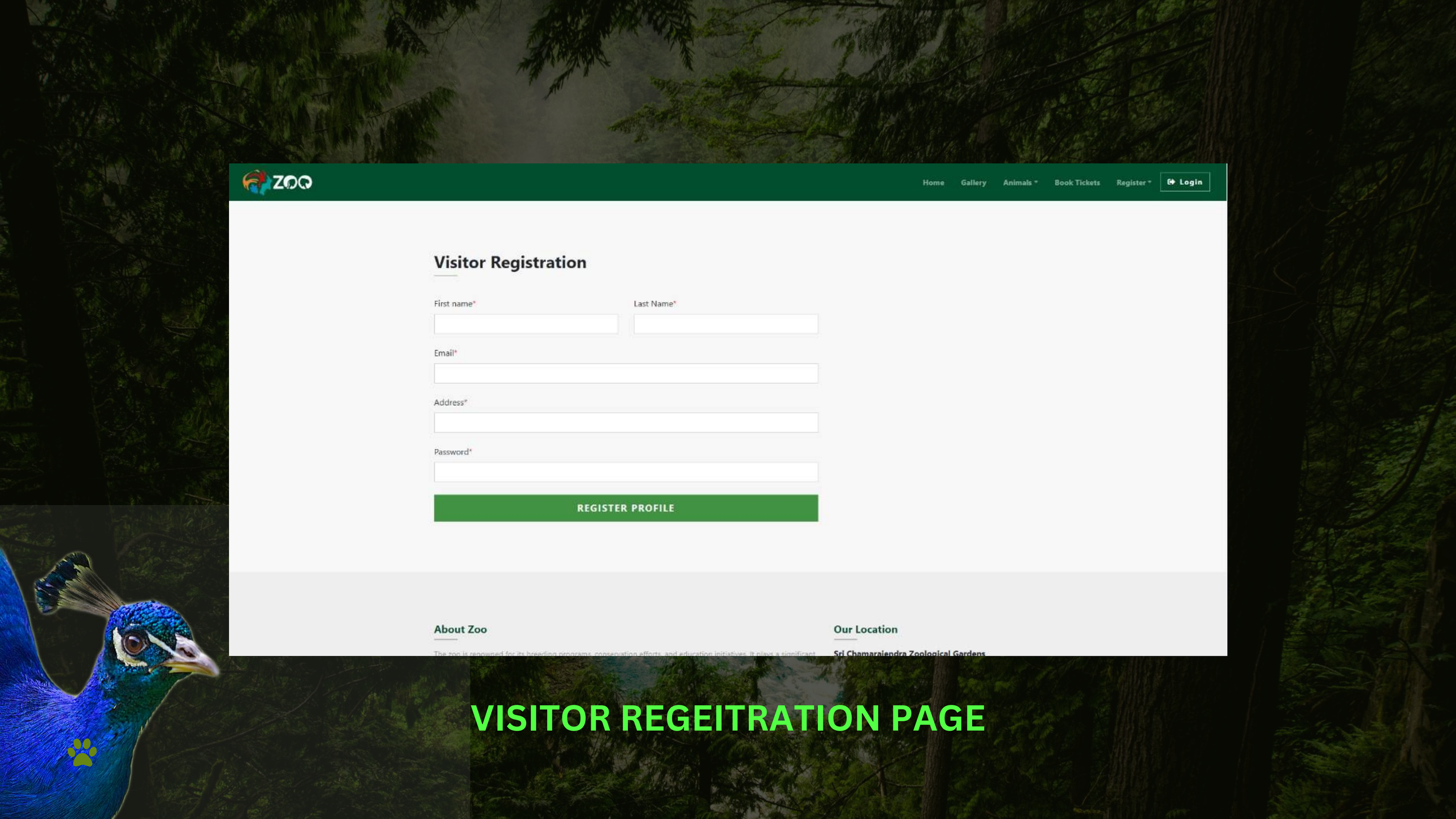
You can contact us using the form in Contact Us page.

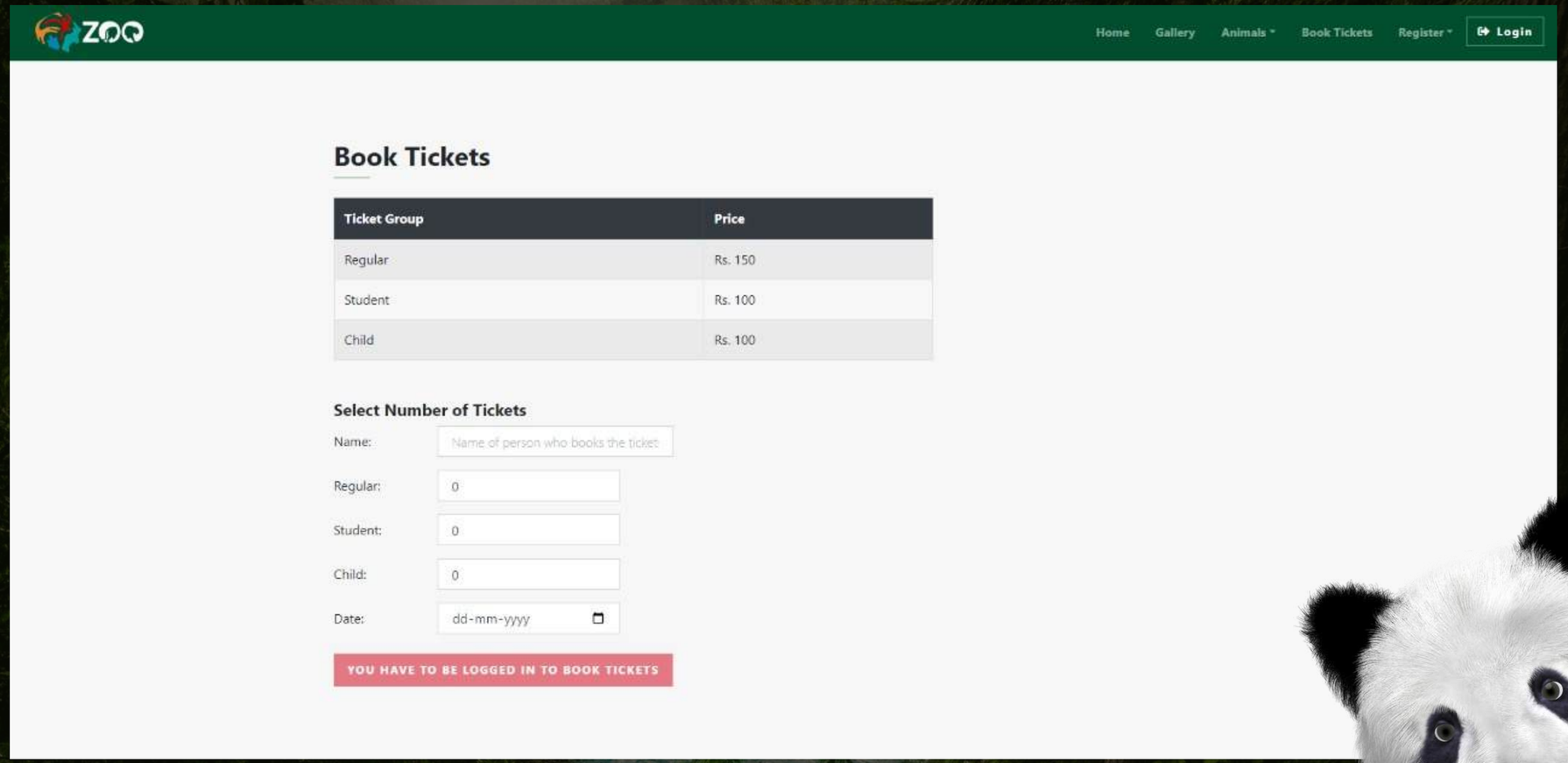
LOGIN PAGE



DASHBOARD PAGE



VISITOR REGEITRATION PAGE



TICKET BOOKING PAGE

CONCLUSION

- A comprehensive Zoo Management System (ZMS) integrating animal care, visitor management, staff management, financial oversight, conservation, and educational programs is crucial for efficient operations.
- This system enhances animal welfare, visitor experience, and staff management while ensuring financial stability and supporting conservation initiatives.
- By integrating data and fostering informed decision-making, the system promotes the zoo's mission of wildlife preservation and public education, contributing to its long-term success and sustainability.

THANK YOU