



اوپنیو سینی تکنولوچی مارا
UNIVERSITI
TEKNOLOGI
MARA

USER MANUAL

Wildlife Conservation System

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GROUP: CDCS2535A

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1.0 Introduction

The Shah Alam Zoo is dedicated to the conservation of wildlife, and our mission, "Join Hands to Save Animals," reflects our ongoing commitment to protecting endangered species. To support our conservation efforts, we have developed the Shah Alam Zoo Management System, a web-based application designed to streamline the management of animal data and enhance operational efficiency.

This system allows zoo staff to securely update and maintain records of the animals in our care, specifically those about to be exhibited. The system includes species such as pandas, peacocks, turtles, crocodiles, and axolotls, covering a variety of mammals, birds, fish and marine animals, reptiles, and amphibians. By ensuring that only animals slated for exhibition are included in the system, it allows staff to efficiently manage and track the health, feeding schedules, and care of each animal.

Security is a top priority, and the system is designed to ensure that only authorized staff members can access and update animal records. Each user must log in securely to access the system, safeguarding sensitive data and ensuring privacy.

The Shah Alam Zoo Management System helps staff manage animal information more effectively, reducing administrative errors, improving care standards, and supporting our broader conservation goals. By centralizing animal data, the system contributes to both the operational efficiency of the zoo and the success of our conservation initiatives.

We encourage all staff members to utilize this new system as part of our shared mission to protect and conserve wildlife. Join hands with us to save the animals!

2.0 Objective

1. Enhance the animal data management

To provide a centralized, secure, and efficient platform for zoo staff to update, manage, and track animal records, including species information, health status, feeding schedules, and exhibition details.

2. Improve the operational efficiency

To streamline the process of monitoring and updating information on animals about to be exhibited, reducing administrative errors and enabling staff to make informed decisions in real time.

3. Support Conservation Efforts

To assist in the zoo's conservation goals by ensuring that accurate and up-to-date animal data is easily accessible, contributing to better care, informed planning, and long-term sustainability of wildlife protection efforts.

3.0 User Interface

3.1 Homepage



Figure 3.1: Homepage Page

This is the homepage of the Shah Alam Zoo where the users can see the 'About Us' and 'Zoo Highlights'. There are three buttons, which are 'Register' , 'Login', and ‘About the Zoo’. The users can click on 'Register' and be redirected to the Register page if they have not registered their account. Otherwise, the users can simply 'Login' to be redirected to the Login page to log into the system. Users also can go to About the Zoo where it tells more information about the zoo.

3.2 About Shah Alam Zoo Page

A screenshot of the 'About Shah Alam Zoo' page. The background is a dark forest scene. At the top left is the zoo's logo. In the center, the text "About Shah Alam Zoo" is displayed in large white letters, with "Explore. Learn. Conserve." in smaller text below it. At the top right are three buttons: "Home", "Login", and "Register". Below this, there is a section titled "Our Mission" with the text "Shah Alam Zoo is dedicated to wildlife conservation, education, and recreation. Our goal is to provide a safe haven for animals while creating awareness about the importance of preserving their habitats." To the right of this is a table titled "Additional Information". The table has two columns: "Category" and "Details". It contains two rows: "Zoo Capacity" (1500 Visitors per day) and "Opening Hours" (9:00 AM - 6:00 PM). At the bottom, there is a section titled "Contact Us" with the text "Address: Shah Alam Zoo, Selangor, Malaysia", "Phone: +60 18-35734821", and "Email: wildlifeconservation@shahalamzoo.my". At the very bottom, a copyright notice reads "© 2024 Shah Alam Zoo. All Rights Reserved."

Figure 3.2: About Shah Alam Zoo Page

This is the page of the About Shah Alam Zoo where the users can see the 'Our Mission', 'Additional Information' and 'Contact Us'. There are three buttons, which are 'Home' , 'Login', and 'Register'. The users can click on 'Register' and be redirected to the Register page if they have not registered their account. Otherwise, the users can simply 'Login' to be redirected to the Login page to log into the system. Users also can go to Home where it will go back to the homepage of Shah Alam Zoo.

3.3 Register Page

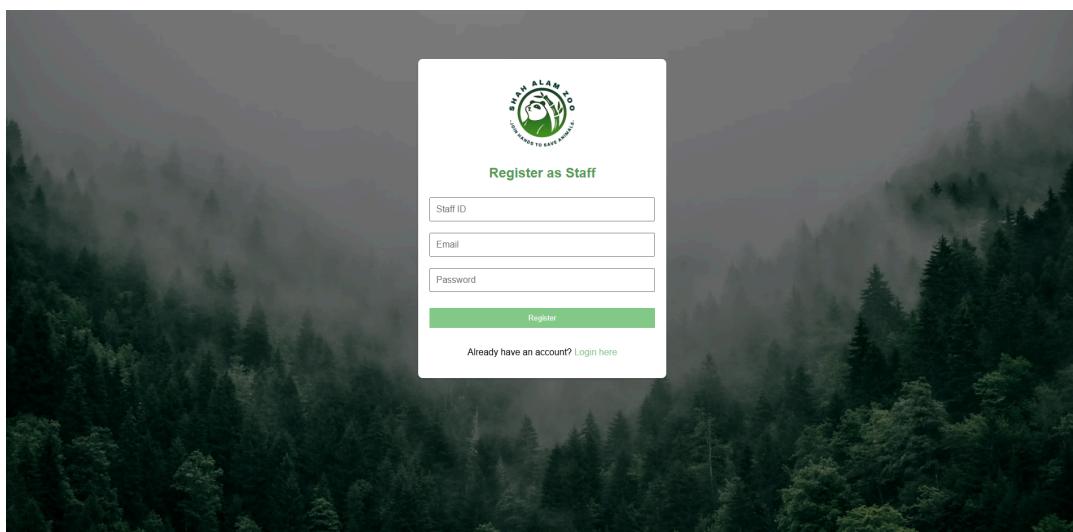


Figure 3.3: Register Page

This is the Register Page of Shah Alam Zoo System where the users can register their account by filling in fields like 'Staff ID', 'Email', and 'Password'. After filling in these fields, they can click on the 'Register' button and they will be redirected to the Login page. If they already have an account, they can simply click on 'Log in here' under the Submit button.

3.4 Login Page

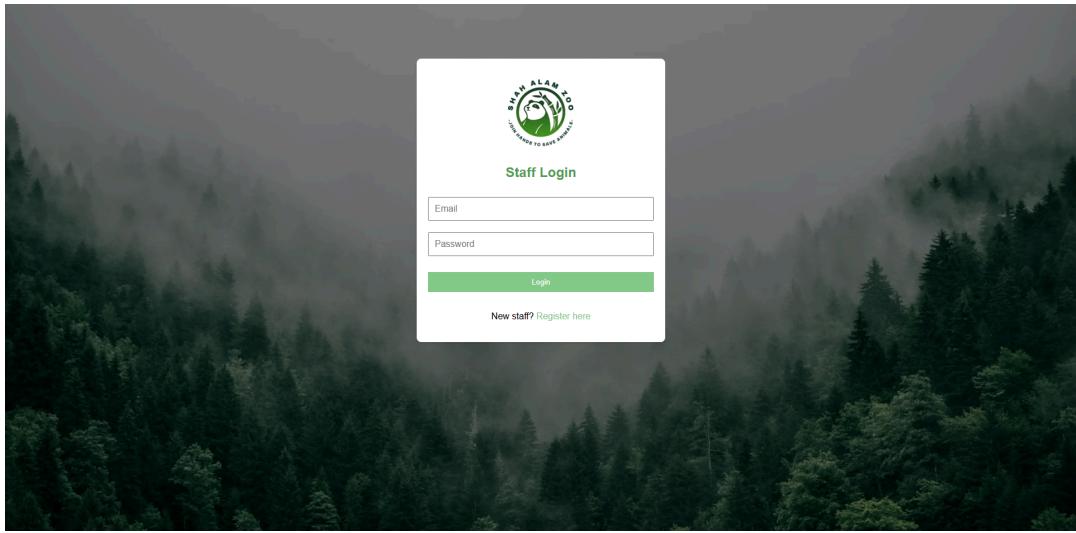


Figure 3.4: Login Page

This is the Login page of Shah Alam Zoo System. If the user has registered their account, they can log in through this page by filling in their 'Email' and 'Password'. After that, they can click on the 'Login' button to log into the system. If they have not registered their account yet, they can click on the 'Register here' and be redirected to the Register page.

3.5 Dashboard Page



Figure 3.5 (a): Dashboard Page

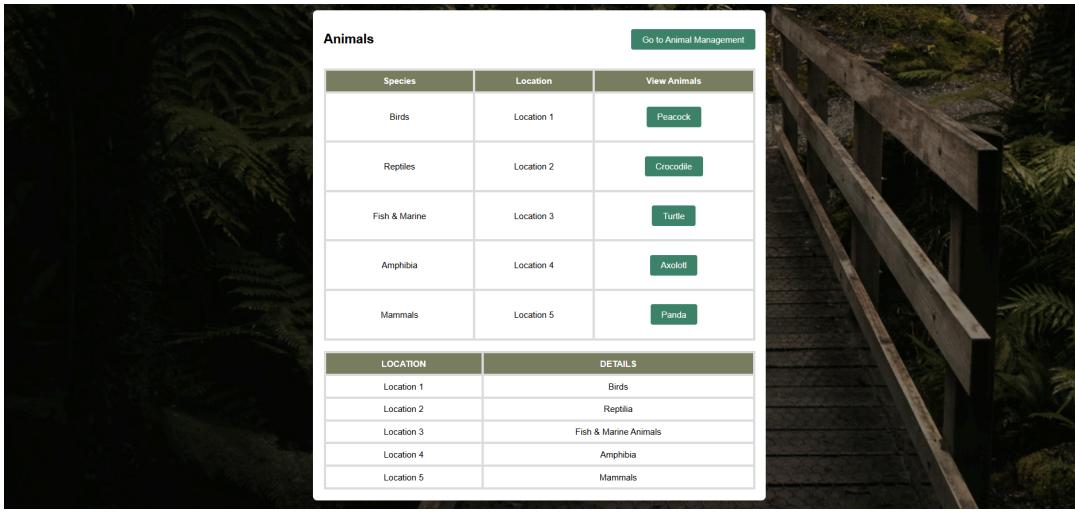


Figure 3.5 (b): Dashboard Page

After logging into the system, the user is redirected to the dashboard. At the top of the page, there is a Shah Alam Zoo Map, view animals and view animals' location. On the right side, there is a button for Logout. Below that, there is a Go to Animal Management button. Below it, there is a table that shows the specieses, location based on the map and view animals. For the view animals column, users can click the button to go to the page where it introduces the animal for the species and some pictures of the animal.

3.6 Animal Page

3.6.1 Bird Page

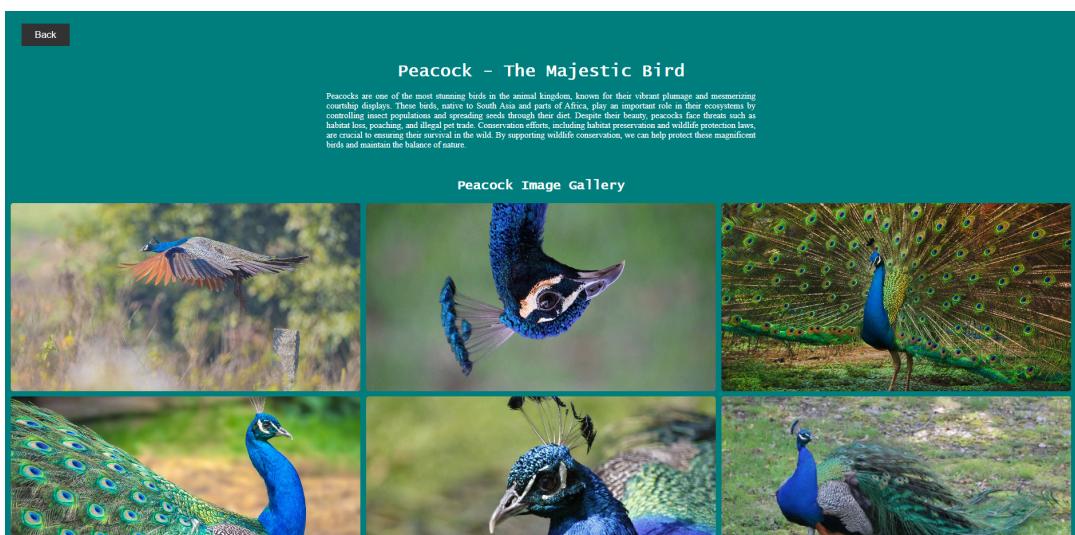


Figure 3.6: Bird Page

3.6.2 Reptile Page



Figure 3.7: Reptile Page

3.6.3 Fish & Marine Page

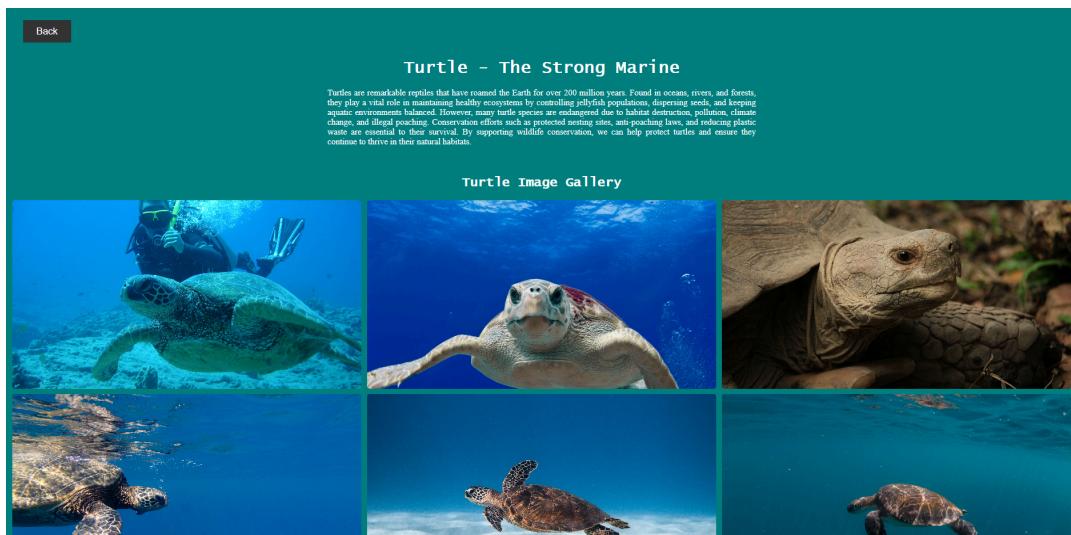


Figure 3.8: Fish & Marine Page

3.6.4 Amphibia Page

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Axolotl – The Unique Amphibia

The axolotl is a unique amphibia known for its ability to regenerate limbs and retain its larval features throughout life. Native to the lakes of Mexico, this fascinating creature plays a vital role in its ecosystem by controlling trout populations and maintaining aquatic balance. Unfortunately, axolots are critically endangered due to habitat destruction, pollution, and invasive species. Conservation efforts, such as habitat restoration and captive breeding programs, are essential to prevent their extinction. By supporting wildlife conservation, we can help protect axolots and preserve the natural biodiversity of our planet.

[Axolotl Image Gallery](#)



The image gallery displays six photographs of axolotls. The top row shows three axolotls in an aquarium setting with rocks and plants. The bottom row shows three axolotls in more naturalistic settings, including one on a log and two in a tank with bubbles.

Figure 3.9: Amphibia Page

3.6.5 Mammals Page

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Panda – The Cute Mammals

Pandas are beloved for their black and white fur and playful nature, but they are also a vital part of their ecosystem. Native to China, these gentle giants primarily feed on bamboo and help maintain forests by spreading seeds and promoting plant growth. However, pandas have faced severe threats due to habitat loss and low reproduction rates. Thanks to conservation efforts, including habitat protection and breeding programs, their population has started to recover. Despite this progress, continued support for panda conservation is crucial. By supporting wildlife conservation, we can help protect pandas and preserve their natural habitat for future generations.

[Panda Image Gallery](#)



The image gallery displays six photographs of pandas. The top row shows three pandas in a bamboo forest, one sitting and two climbing trees. The bottom row shows three pandas in a more open, possibly zoo or sanctuary, environment, including one standing and two resting.

Figure 3.10: Mammals Page

For these pages, they show the introduction for each of the animals and will also provide some pictures of the animals. Here, users can know more about the animals.

3.7 Animal Management Page (Add Animal Information)

The screenshot shows a 'Add Animal' form with the following fields:

- Entry Date: A date input field.
- Animal ID: An input field.
- Species: A dropdown menu showing 'Mammals'.
- Animal Name: A dropdown menu showing 'Panda'.
- Age: An input field.
- Gender: A dropdown menu showing 'Male'.
- Habitat: An input field.
- Location: A dropdown menu showing 'Location 1'.

At the bottom right of the form is a green 'Add Animal' button.

Figure 3.11 (a): Animal Management Page (Add Animal Information)

| Animal Records | | | | | | | | Actions | |
|----------------|-----------|-------------------------|-------------|-----|--------|---------------|------------|-----------------------|-------------------------|
| Date | Animal ID | Species | Animal Name | Age | Gender | Habitat | Location | | |
| 2025-02-14 | 123 | Mammals | Panda | 3 | Male | Bamboo Forest | Location 5 | <button>Edit</button> | <button>Delete</button> |
| 2025-02-05 | 423 | Reptiles | Crocodile | 2 | Female | Lake | Location 2 | <button>Edit</button> | <button>Delete</button> |
| 2025-01-24 | 870 | Fish and Marine Animals | Turtle | 5 | Male | Sea | Location 3 | <button>Edit</button> | <button>Delete</button> |
| 2025-02-03 | 555 | Amphibians | Axolotl | 4 | Female | Sea | Location 4 | <button>Edit</button> | <button>Delete</button> |

Figure 3.11 (b): Animal Management Page (Add Animal Information)

After clicking the ‘Go to Animal Management’ button, the user is redirected to the Animal Management Page. There are two buttons, which are ‘Dashboard’, and ‘Log Out’. The users can click on the ‘Log Out’ button and be redirected to the Log Out page. Users also can go to Dashboard where it will go back to the dashboard page of Shah Alam Zoo. At the top of the page, users can add animal information which is about to be added into the database. After filling up the information, users can click the Add Animal button and it will be automatically added into the Animal Record table. Below that, which is the Animal Record table, besides the information of the animals, there will be a column which has two buttons, ‘Edit’ and ‘Delete’. When users click the ‘Edit’ button, it will direct to the Edit page. Otherwise, if users click the ‘Delete’ button, it will delete the entire row for the selected animal information.

3.8 Animal Management Page (Update Animal Information)

The screenshot shows the 'Animal Management' page with a dark green header bar. In the top right corner, there are two buttons: 'Dashboard' and 'Logout'. Below the header, the main content area has a white background and a title 'Update Animal Information'. The form contains the following fields:

- Entry Date:** A text input field with a placeholder 'mm/dd/yyyy'.
- Animal ID:** A text input field.
- Species:** A dropdown menu currently set to 'Mammals'.
- Animal Name:** A dropdown menu currently set to 'Panda'.
- Age:** A text input field.
- Gender:** A dropdown menu currently set to 'Male'.
- Habitat:** A text input field.
- Location:** A dropdown menu currently set to 'Location 1'.

At the bottom left of the form is a dark green 'Update' button.

Figure 3.12: Animal Management Page (Update Animal Information)

This is the Animal Management Page of Shah Alam Zoo System which is directed from the Edit button on the Animal Management page. There are two buttons, which are ‘Dashboard’, and ‘Log Out’. The users can click on the ‘Log Out’ button and be redirected to the Log Out page. Users also can go to Dashboard where it will go back to the dashboard page of Shah Alam Zoo. The users can update the information of the animals and have to fill up all the information. After filling up, they can click the ‘Update’ button and users will be directed to the Animal Management page again, showing that it has updated the information entered by the users.

3.9 Logout Page

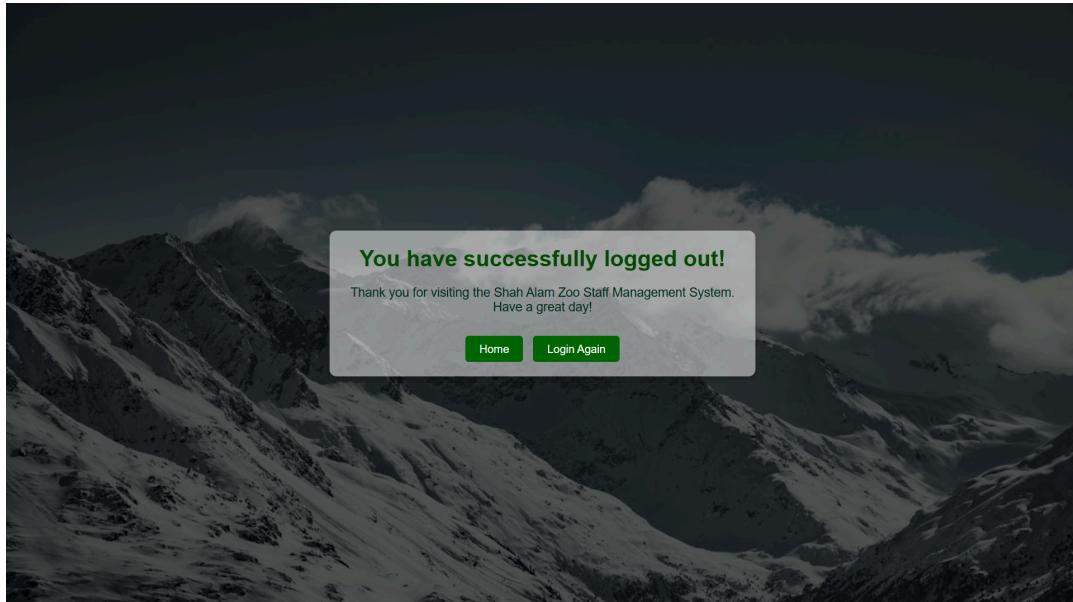


Figure 3.13: Logout Page

This is the page of the Log Out Page where the users will be directed to if they click the 'Log Out' button on any page. There are two buttons, which are 'Home', and 'Login Again'. The users can click on 'Home' and be redirected to the homepage. Otherwise, the users can simply 'Login Again' to be redirected to the Login page to log into the system.

4.0 Conclusion

The Shah Alam Zoo Management System has effectively addressed the need for a secure and efficient way to manage and update records for the animals housed within the zoo, specifically those about to be exhibited. By allowing zoo staff to easily track and update information about species such as pandas, peacocks, turtles, crocodiles, and axolotls, the system streamlines the administrative process, reducing errors and ensuring that only relevant animal data is maintained. While the system focuses on the accurate storage of animal information, it indirectly supports the zoo's broader objectives by providing a reliable database for future planning and operational decisions. More generally, the introduction of this system reflects a larger movement within conservation efforts, where efficient data management can play a vital role in protecting and preserving wildlife. By improving internal operations, the system contributes to the zoo's long-term mission to support wildlife conservation and sustainability, aligning with global efforts to safeguard biodiversity for future generations.