Zoo Management System Documentation

Overview

The Zoo Management System is designed to efficiently manage various aspects of a zoo, including animals, habitats, staff, and visitors. This document provides an overview of the system's structure, including its source code organization and available documentation resources.

Source Code Structure

Packages



```
Animal.java
SwimmingAnimal.java
WalkingAnimal.java
FlyingAnimal.java
Mammal.java
Bird.java
```

• com.zoo.habitats Contains classes related to various habitats within the zoo.

```
Habitat.javaForest.javaOcean.javaDesert.java
```

Fish.java

• com.zoo.management Manages the operations and staff within the zoo.

```
AnimalManager.javaHabitatManager.javaZooKeeperManager.java
```

com.zoo.models Contains models representing people and schedules in the zoo.

```
Visitor.javaSchedule.java
```

ZooKeeper.java

- com.zoo.reports Generates reports related to animals and habitats.
 - ReportGenerator.java
 - AnimalReport.java
 - HabitatReport.java
- com.zoo.utils Provides utility classes for input handling and validation.
 - InputHandler.java
 - Validator.java

Main Application

Main.java

The entry point of the Zoo Management System application.

Documentation

Diagrams

The documentation includes various diagrams to help understand the system's architecture and functionality.

Class Diagrams

Located in diagrams/class-diagrams/, these diagrams illustrate the relationships between classes in different packages.

- animals-class-diagram.puml/ animals-class-diagram.png
- habitats-class-diagram.puml/ habitats-class-diagram.png
- management-class-diagram.puml/ management-class-diagram.png
- models-class-diagram.puml/ models-class-diagram.png
- reports-class-diagram.puml/reports-class-diagram.png

Use Case Diagrams

Located in diagrams/use-case-diagrams/, these diagrams depict the interactions between users and the system.

use-case-diagram.puml/ use-case-diagram.png

Sequence Diagrams

Located in diagrams/sequence-diagrams/, these diagrams show the sequence of operations within the system.

sequence-diagram.puml/ sequence-diagram.png

Activity Diagrams

Located in diagrams/activity-diagrams/, these diagrams represent the workflow of various processes.

activity-diagram.puml/ activity-diagram.png

Component Diagrams

Located in diagrams/component-diagrams/, these diagrams illustrate the components and their interactions.

component-diagram.puml/component-diagram.png

Conclusion

The Zoo Management System is a comprehensive solution for managing zoo operations. The organized structure of the source code and detailed documentation resources provide a solid foundation for understanding and extending the system.