

# 1. Animal

## **1.1 Animal Registration:**

The system shall allow the user to register and remove animals.

## **1.2 Animal Retrieval**

The system shall allow the user to retrieve specific animals.

## **1.3 Animal Details**

The system shall allow the user to retrieve and update the details of a specific animal.

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# 2. Habitat

## **2.1 Habitat Registration:**

The system shall allow the user to create and remove habitats.

## **2.2 Habitat Retrieval:**

The system shall allow the user to retrieve specific habitats, or all habitats by environment type, size, geographical area, etc.

## **2.3 Habitat Details:**

The system shall allow the user to view and update detailed information about a habitat, including its geographic area, size, environment type, and assigned animals.

## **2.4 Assigning Animals to Habitats:**

The system shall allow the user to assign groups of animals to individual habitats.

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# 3. Migration

## **3.1 Migration Registration**

The system shall allow the user to create and remove migrations along migration paths.

## **3.2 Migration Retrieval**

The system shall allow the user to retrieve specific migrations, all migrations, or all migrations along specific paths, etc.

## **3.3 Migration Management**

The system shall allow the user to schedule and cancel migrations.

### **3.3 Migration Details**

The system shall allow the user to view and update the details of individual migrations.

## **3.1 Migration Paths**

### **3.1.1 Migration Path Registration:**

The system shall allow the user to create and remove migration paths between habitats.

### **3.1.2 Migration Path Retrieval:**

The system shall allow the user to retrieve specific migration paths or all migration paths by species, habitats, etc.

### **3.1.3 Migration Path Details**

The system shall allow the user to view and update detailed information about a migration path, including its species, starting location and destination habitats and duration.