## **ZOO MANAGEMENT SYSTEM**

## **GROUP 7**

LUKMAN AROGUNDADE 986040

STANLEY JUILEN 986057

#### INTRODUCTION

Zoological gardens provide an opportunity to open a whole new world of curiosity and interest, and sensitize visitors regarding the value and need for conservation of wildlife.

Zoos were initially started for the entertainment of people. Gradually over the years, they have come to play an important role in conservation. The goal of zoos is the conservation of animals in the wild.

#### **PROBLEM STATEMENT**

The main problem and motivation is basically lack of information about various animals.

This project is based on the various information related to the animal and the workers, which are present in the zoo.

Such as when we visit any zoo then we are not aware that which animal is placed at which place.

For knowing this information, we look for a graph present in the zoo, but with this information system we can easily search the zoo by filling the name of the animal, such as Lion, Tiger, etc. then by running this query one can easily find the block in which the animal is present.

The system sends an auto-generated order to suppliers when the stock of food and medicine reach the deadline.

#### FEATURES OF THE SYSTEM

#### **Administration features**

- Add/Edit/Update/view employee details
- Add/Edit/update/view animal detail
- Add/Edit/update/view animal food and medicine
- Add/Edit/update/view cell details
- Add/Edit/update/view supplier details
- Add/Edit/update/view Holiday/Promo packages
- Add/Edit/update/view Zoo card
- Stock management (simple operation)
- Generate Report: Animals, visitors, payments, employees

## Visitor/Employee features

- Search for animal
- Visitor make payment
- Make appointment to the Zoo

### System feature

• Send auto mail to supplier

### **SOFTWARE DESIGN PATTERN USED**

Template method, Singleton

#### HARDWARE & SOFTWARE USED

#### Software used:

IntelliJ/Eclipse, Windows and Linux

#### **Front End:**

JSP, HTML, Java script, CSS

#### **Back End:**

Embedded Tomcat, Spring boot, Spring MVC, Spring security, Spring scheduler, RESTful microservice API, Data structure (Array List), JDBC template, JSON, Hibernate, GitHub

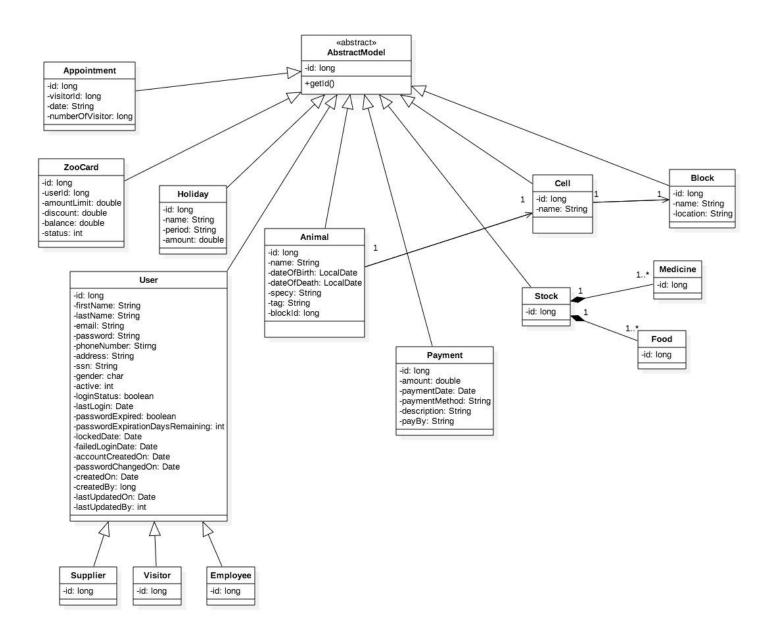
#### **Database:**

**SQL Server** 

# 1- Identify Candidate Classes

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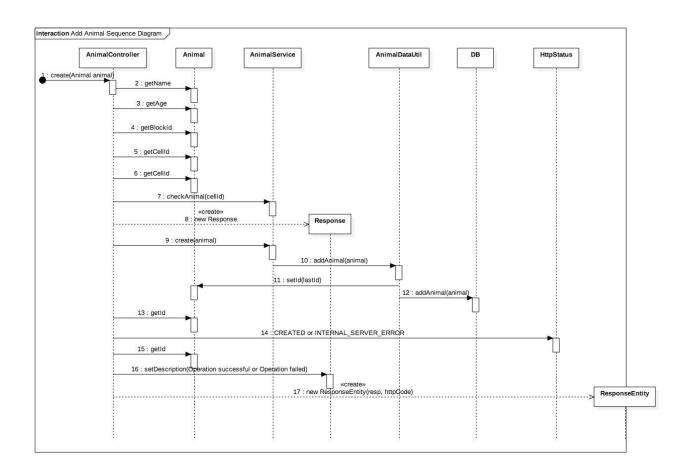
## 2- Create Class Diagram

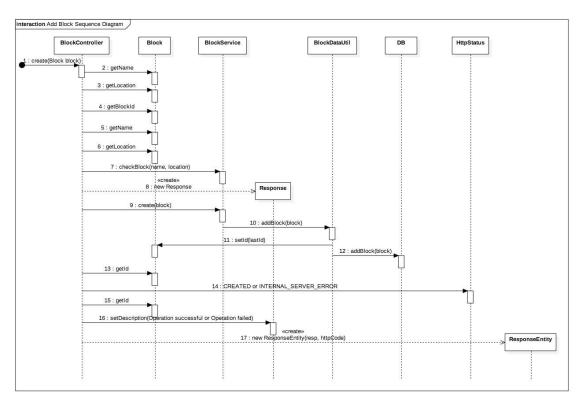


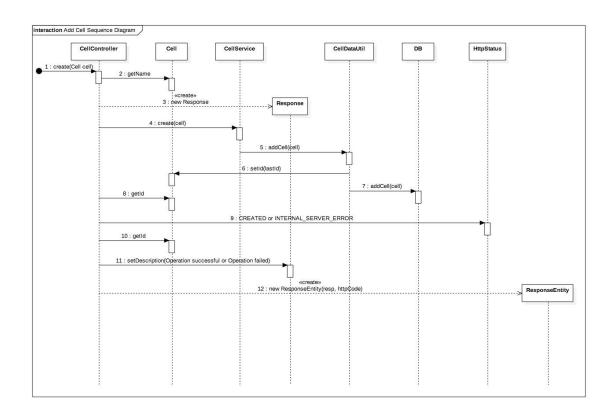
# **3- Data Dictionary**

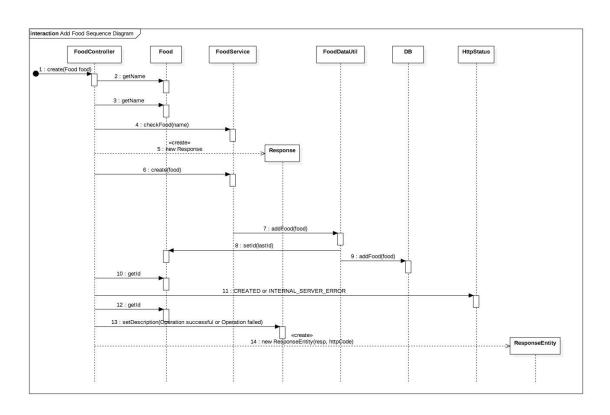
No	Class	Description		
1	Animal	In the zoo we got different kind of animal. Ex:		
		Lion, Elephant, Tiger		
2	Cell	It is the room that we put the animal		
3	Block The block is the area that can content			
		Ex: Block (East) content 20 cells		
5	Stock	We by food and medicine by stock		
6	Medicine	We use medicine to treat the animal or to		
		prevent for some kind of disease		
7	Food	We prepare food to nourish the animal		
8	Appointment	A visitor can make appointment to come to the		
		Zoo		
9	User	Can be a Visitor, Supplier (who provide the		
		stock) and Employee		
10	Visitor	Person who come to visit the animal, the place		
11	Supplier	The person who provide the Medicine and Food		
12	Employee	It is the administrator of the system		
13	Holiday	It is a promotion package that we offer to visitor,		
		and have different kind of discount plan		
14	Report	Report of the payment		
15	Zoo Card	It is a gift card that we give to the visitor, so he		
		can have a discount.		

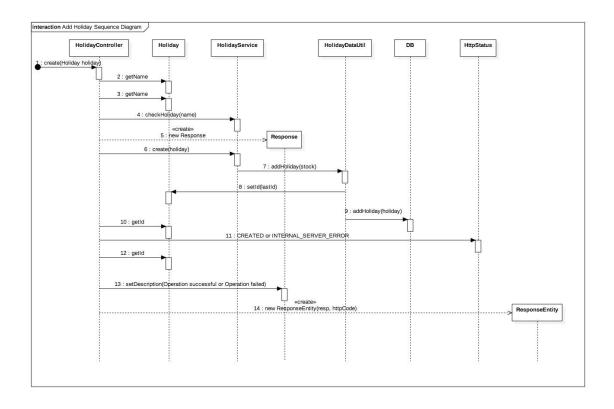
# **4- Create Sequence Diagram**

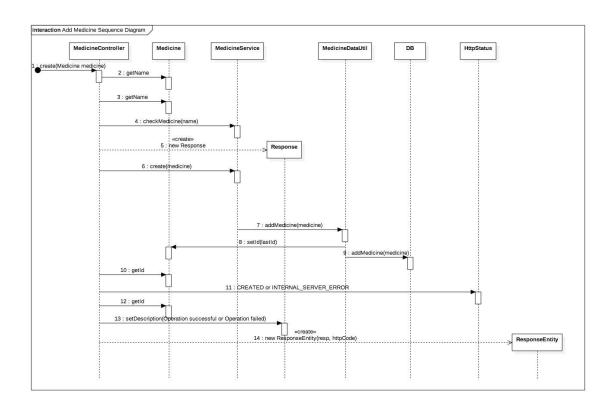


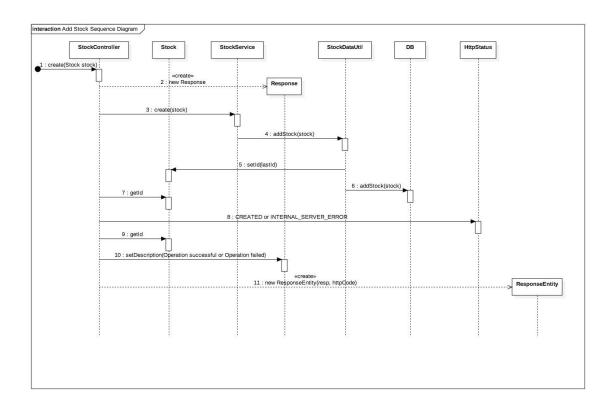












# 5- Database Diagram

