

DBS211 – Final Project

Milestone 1 – Project Idea and Proposal

Seneca College

Course Code: DBS211

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Zoo Animal Inventory System

Table of Contents

- Introduction
- Problem Statement
- Solution
- Requirement

- Introduction

The zoo industry's main purpose is to preserve and exhibit animal life for conservation, academic, and entertainment purposes ("Zoos & Aquariums Industry in the US - Market Research Report", 2020, "About this report" section). A detailed and accurate record of a zoo's animal inventory that includes the type, name, and quantity of its animals, accounts of their management and health, as well as day-to-day events, should be a vital part of industry operations.

Designing a database of such records, and developing and implementing an inventory system will benefit the group by providing a better understanding of the practical application of database systems that its members will likely encounter along their careers. The members were also keen on the topic of zoo animals, which will facilitate idea generation and participation.

- Problem Statement

A software to manage animals in a zoo, first and foremost, has to provide for the health, safety, and well-being of those animals. With such an electronic system in place, all those involved will have easy and ready access to a vast array of animal specific data that can improve efficiency in care and management of zoo animals. This will help ensure that the inventory of animals under human care are protected and preserved.

- Solution

The group proposes to design, develop and implement an animal inventory solution that can make data on the animals a zoo keeps – e.g., feedings, medication, vaccination, water temperature and humidity – organized and accessible to its users. The project will determine the needs of system users, collect animal inventory data, and produce a system that provides users with views of real-time information that can support their decision-making processes and day-to-day operations.

- Requirement

- Animal data including but not limited to
 - Type/Section
 - Name
 - Quantity
 - Age
 - Disposition
 - Date of Birth or Acquisition
 - Weight
 - Gender
 - Color
- Medical data including but not limited to
 - Animal ID
 - Vaccination
 - Problem
 - Treatments
 - Diagnosis

- Date of record
- Prescriptions
- Veterinarian ID
- Nutritional data including but not limited to
 - Animal ID
 - Food given
 - Amount eaten
 - Amount total
 - Special supplements
 - Nutritionist ID
- Daily records including but not limited to
 - Time of cleaning
 - Weather
 - Humidity
 - Caretaker ID

- References

Zoos & Aquariums Industry in the US - Market Research Report. (2020, November 12). Retrieved July 10, 2022, from <https://www.ibisworld.com/united-states/market-research-reports/zoos-aquariums-industry/>

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