**System Requirement Specification**

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**Animal Species Repository System**

**Version: 1.1**

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1. **Introduction**
   1. **Purpose**

The purpose of this document is to describe detailed information of “Animal Species Repository System”. The document will illustrate the purpose and use of the developed ASRP System.

* 1. **Scope**

The ASRS is web application designed for users who wants to view the information of any animals of India. ASRS uses RDBMS for storage and retrieval of data. There will only be one super user who has all rights.

***The Animals information in our RDBMS is divided into the following 5 Category types:-***

***Critically Endangered***

A **critically endangered** (CR) **species** is one which has been categorized by the International Union for Conservation of Nature (IUCN) as facing a very high risk of extinction in the wild. It is the highest risk category assigned by the IUCN Red List for wild **species**.

***Endangered***

An **endangered** **species** is one which has been categorized by the International Union for Conservation of Nature (IUCN) as a species of animal or plant that is seriously at risk of extinction.

***Vulnerable***

A **vulnerable species** is one which has been categorized by the International Union for Conservation of Nature (IUCN) as likely to become **endangered** unless the circumstances threatening its survival and reproduction improve. **Vulnerability** is mainly caused by habitat loss or destruction of the **species** home.

***Near Threatened***

A **near-threatened** species is a species which has been categorized as "Near Threatened" (NT) by the International Union for Conservation of Nature as that may be considered threatened with extinction in the near future, although it does not currently qualify for the threatened status.

***Least Concern***

A **least concern** (LC) species is a species which has been categorized by the International Union for Conservation of Nature as evaluated but not qualified for any other category. As such they **do** not qualify as threatened, near threatened, or (before 2001) conservation dependent.

**The Category further contain the following sub-categories of animals:-**

* ***Birds***
* ***Mammals***
* ***Reptiles***
* ***Invertebrates***
* ***Fish***
* ***Amphibians***
  1. **Definitions, Acronyms, and abbreviations**

|  |  |
| --- | --- |
| Term | Definition |
| ASRS | Animal Species Repository System |

1. **Functional Requirements**
   1. **Functionality**

This sub-section contains the requirements for the ASRS.

* + 1. **Provide Search facility.**
* The system shall enable user to enter the search text on the screen.
* The system shall display all the matching results based on the search
* The system shall enable user to navigate between the search results.
* The system shall notify the user when no matching product is found on the search.

1. **Database Requirements**

A relational database is used. The data formats to be supported are integer, double, string, datetime, date, text, password, Boolean, image.

Procedural Language/PostgreSQL will used for the system.

1. **Advantages**

* Proper file management system.
* Searches over product and history can be done easily.
* Records each and very purchase/sale entries which makes tracking simpler.
* Data can help making business decisions.
* Will help to manage day to day activities.
* Work will be faster.
* Requires less human resource to maintain data.
* Data will be more secured as limited access to particular user.
* System which tracks and manages the dairy products day to day.
* Scheduled purchase/sell entries management.
* All branches stock will be managed from one system.
* Less number of chances of error.
* Saves money in terms of man power, space and stationary stock.

1. **Business Constraints**
   1. **Standard Development Tools**

The system shall be built using a standard web page development tool that conforms to WWW standards.

* 1. **Web Based Product**
* There are no memory requirements
* The computers must be equipped with web browsers such as Internet explorer.
* A general knowledge of basic computer skills is required to use the product
  1. **Purchased Components**

Not Applicable

* 1. **Interfaces**

There are many types of interfaces as such supported by the DPMS software system namely; User Interface, Software Interface and Hardware Interface. The system shall be over HTML.

1. **Information About Animal Species Repository System**

* Category contains category\_id, category\_name.
* Sub-category contains sub\_category\_id, sub\_category\_name.
* Main-category has main\_category\_id, sub\_category\_id, category\_id, animal\_id.
* Main-category can have multiple categories and sub-categories.
* Animal have animal\_id, name, height, weight, sci\_name, age, life\_span, color, gender.
* One animal can be found in multiple cities.
* Animal details has animal\_id, city\_id, population.
* Animal can belong to one sub-category.
* City has city\_id, city\_name, state\_id.
* State has state\_id, state\_name.
* One city has only one state & one state can contain many cities.