



**SOFTWARE REQUIREMENTS SPECIFICATION FOR  
CHEETAH TRACKING SYSTEM**

## **INTRODUCTION**

### **Purpose**

The purpose of this software requirements specification document is to provide a detailed overview of our software product, its parameters and goals. This document describes the project's target audience, hardware and software requirements. It defines how our client, team and audience see the product and its functionality. Nonetheless, it helps any designer and developer to assist in software delivery lifecycle.

### **Scope**

The cheetah tracking system will help the customers to retrieve the current status of information about cheetahs in the captive centers. No software installation will be required to track information about cheetahs in the captive centers. Any system connected with internet will be enough to track information about cheetahs in the captive areas.

### **Overall description**

Domain description:

Why php?

Hypertext preprocessor (php) is a server-side scripting language that runs on the server called Apache and designed for web development, but also used as a general-purpose programming language. It was originally stood for personal home page but it now stands for the recursive acronym. It does not require any special compilers or editors. The syntax of this language is similar to English making it easier for developers to learn. Php code may be embedded into HTML code, or it can be used in combination with various web template systems and web frameworks.

### **Problem Definition**

Cheetah tracking system is a web-based system that helps users to track information about cheetahs in the captive area online. It allows authorized people to the system to access the private information about cheetahs for example information about the missing cheetahs in the captive centers. The system allows reporting in case any cheetah is seen by someone outside the captive area. To summarize, the cheetah tracking system offers the following advantages

- It offers real-time information about the available cheetah in the captive centers.
- It allows authorized people to provide license to the legitimate people thus reducing paper work.
- Information is made available to those people with computer devices and connected to the internet.

## **Specific requirements**

### **Functional requirements:**

#### Module Description:

User module: This module shall correspond to the activities of the users.

1. Login module: The system shall allow the authorized user to log in into the system.
2. Enter info module: The system shall allow the user to report information which may be used for tracking. It shall allow the user to report information about the cheetah he has seen or even insert the picture of the animal.
3. Admin module: This module shall correspond to the tasks of the administrator.
4. Import Cheetah Data Module
5. Detect Features
6. Cheetah Data Back up module
7. Validate user log in: The system shall verify the information entered by the authorized user during log in.
  - Update information status: the system shall allow Admin to update the current status about the cheetahs in the captive centers.
  - Display module: the system shall allow admin to display the current tracking information about the cheetah to send the concerned details on the media as selected by the customer.
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## **Non Functional Requirements**

## Performance requirements

- ❖ The product shall be based on web and has to be run from the web server.
- ❖ The product shall take initial load time depending on internet connection strength which also depends on the media from which the product is run.
- ❖ The performance shall depend upon hardware components of the client.

## Security:

- The system's back-end servers shall only be accessible to authenticated administrators.
- The system's back-end databases shall be encrypted.

## Maintainability:

Repair time shall be within an hour.

## Supportability:

1. There are no memory requirements.
2. The computers must be equipped with any of the web browsers.
3. The product must be stored in such a way that allow the client easy access to it.
4. Response time for loading the system should take no longer than 5 minutes.

## System specifications:

### Hardware requirements

Full set Computer or Laptop with a mouse or pointing device

### Software Requirements

Operating system

Web/Application server

Database server

Database connectivity

Other tools and technologies:

