UNIVERSITY OF PLYMOUTH

PUSL2021 Computing Group Project

PROJECT PROPOSAL

National Wildlife Park Management System

PU Index Number	Name	Degree Program
10898944	G A G K Wijayasekara	Computer Science
10898903	L A D U Sankalpa	Computer Science
10898812	M A C Maduwantha	Computer Science
10898894	N H L Rasanga	Computer Science
10898738	H P N A Bandara	Computer Science
10898717	H N Weraniyage	Computer Networks

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INTRODUCTION

The adventurous journey which is into the heart of the wild, is going to be re-structured for revolutionized experience and well managed safari expedition with our National wildlife park management system. Our aim is to seamlessly connect technology into realm of wildlife conservation and safari tourism without any damage to the delicate balance between humans and nature.

Since Sri Lanka is getting back into its tourist attraction again and locals are trying to reconnect with their lives after virus outbreak and the crisis, National parks can be seen crowded same as the other attractions. Such as Yala, Wilpattu and Horton Plains national parks have become super crowded in the week days also.

Hence the need of a National wildlife park management system appears from here. We cannot valuate or cannot be fixed the damage which is happening to the delicate eco system with the informal crowd. This disturbing situation directly impacts to the wild livings and their harmonious lifestyle with nature. So in addition to streamlining the operational complexities of safari trips, our initiative aims to create a complete safari management system that will make a major contribution to the preservation of ecosystems and the welfare of the species they support.

Fundamentally, the National wildlife park Management System caters to the diverse requirements of safari guides, passengers and operators. The system's goals are to improve visitors' entire experience by offering smooth booking procedures and dynamic itinerary management, so that their trip into the wild is both effortless and thrilling. And on the other hand well managed crowd by the National wildlife park management system, will be able to provide a peaceful background even with the safari tours to the ecosystem and the wild life so it can remain unharmed for a reasonable time period than before.

We hope this project will enhance the current National wildlife park Management System and will be able to make the journeys into the wild more friendlier to the eco system than ever.

OBJECTIVES

Our main focus is to maintain a balanced interaction between Safari journeys and wildlife without causing any damage to the ecosystem.

To achieve that target, these are the objectives we are planning to complete,

- Limit the number of morning and evening safari rides each day with a managed schedule - This will manage the unbearable crowd and will help reduce the damage that can happen to nature.

- Make a one-stop platform for all foreign and local visitors to book their rides - With this objective, we will be able to make the booking system more efficient and reliable for the visitors.

- Create a system to register safer safari drivers - With this system, we expect to register more reliable drivers for the journeys to ensure the safety of the visitors as well as the wildlife and ecosystem.

- Monitor and analyze the visitor count - The system will analyze the daily crowd and give accurate data for future reference and management decisions.

- Collaboration of technology to enhance the interaction of humans and wildlife - With the booking website we can make the visitors aware of the sensitive ground they are going to visit and how important them to protect it.

TARGET USERS

- Foreign and Local tourists - Foreign and local tourists who are expecting to visit the National park.

- Safari Drivers/ Owners and Guides - Safari Jeep Drivers and Safari Tour Guides

- Department of Wildlife conservation - Acts as the admin of the system

APPLICATION FEATURES AND DESCRIPTION

System

Admin Sign Up - The Admin will create an account in the system and get a unique ID and Password

Admin Login - The Admin can log into the system with the given username and password

Driver Registration - A driver can create an account in the system with his details.

Driver Registration Approval - The driver must submit his acceptable and legal documents to be an approved driver.

Driver Login - The driver can log into the system with the given username and password after getting approved.

Visitor management - Issue tickets and track visitors for further safety and security purposes.

Safari Scheduling - Real-time Scheduling with limited vehicles per day for safari rides

Website

Driver Profile - The driver should create a profile on the website for tourists' preference

Driver Login - can log into the website profile by using the system username and password driver

Date selection - Visitors can select or check dates on the calendar for their ride

Online booking system - Visitors can do ticket booking and safari reservation through online.

Feedback - Users can leave their experience with the new system and also feedbacks about drivers

TIME FRAME

National Wildlife Park Management System
Read-only view, generated on 24 Oct 2023

ACTIVITIES	ASSIGNEE	EH	START	DUE	%
Section 1		-	16/Oct	15/Apr	0%
Planning		-	16/Oct	27/Oct	0%
2 Delivering Project Prop...		-	16/Oct	25/Oct	0%
3 Assigning Taksk		-	25/Oct	27/Oct	0%
Analysing		-	22/Oct	30/Oct	0%
5 Analyze information		-	22/Oct	24/Oct	0%
6 Identify Resources		-	24/Oct	25/Oct	0%
7 Creating sketch plan		-	25/Oct	30/Oct	0%
Design		-	30/Oct	16/Nov	0%
9 Design diagrams		-	30/Oct	03/Nov	0%
10 Design interfaces		-	03/Nov	10/Nov	0%
11 Design Database		-	10/Nov	16/Nov	0%
Implementation		-	16/Nov	26/Mar	0%
13 Font-End		-	16/Nov	22/Mar	0%
14 Back-End		-	17/Nov	25/Mar	0%
15 Database		-	17/Nov	26/Mar	0%
System		-	27/Mar	15/Apr	0%
17 Testing		-	27/Mar	11/Apr	0%
18 Bug Fixing		-	01/Apr	15/Apr	0%