A Portal to Automate Workflow Process for the Forest Department

K. Dineshkumar  
PG Student  
Department of MCA  
IFET College Of Engineering Villupuram

S. Sivasankaran  
Senior Assistant Professor  
Department of MCA  
IFET College Of Engineering Villupuram

Abstract

Using this portal it is easy to maintain and review legacy datasets and record details about the activities of forest department. Those details will help others to know about illegal activity happened inside the forest. It helps to schedule and monitor the task of forest officer and all other workers and also maintains staff details for assigning the task. It acts as a bridge between senior officer and worker and makes their interaction easy, by the way it saves time involved in communication process. It maintains the account detail for system database. It maintains total number of trees and animals available inside the forest for tracking the details of robbery activities and other illegal activities carried out there. It provides case sheet with penalty and imprisoned details for committing the crime or other illegal activity inside the forest.

Keywords: Management All Forest Work, Schedule Plan, Accounts

I. INTRODUCTION

It is easy to maintain and review record details about the forest department, illegal activity tracking & controlling system. It aides in assigning the task to all the department work members. Maintain the account detail about the expenditure and also total number of trees and animals in the system database. It provides case sheet with penalty for illegal crime activity.

II. OBJECTIVES

With this web application it is aiming to automate all the work flow processes in the forest department. The work flow processes include staff management, where all the staff details can be stored and retrieved according to the demand. Similarly, forest and wildlife maintenance allows the authorities to keep the count on all the animals and trees. The manual overhead of the existing system is completely swept off by the automated web portal. Easy and effective maintenance, economical and zero risk of data loss are the inevitable achieved by the proposed system.

III. EXISTING SYSTEM

The existing system follows manual storing and verification of the database to find illegal activities. It uses the traditional way of writing down or printing the gathered details regarding the criminal activities and save as file records. This tedious work is followed by another burden of storing all the penned records. The records have to be safely kept and maintained for future verification and validation. The account, the firm’s expenditure, and all money transaction details are stored in the computer.

A. Drawbacks in Existing System:

1) Slower Processing:
It means that some information that could be provided if proposed systems were used will not be provided at all, because there is not time.
2) Less Accessible:
Information is generally less accessible. Access to information is often restricted to one user at a time, paper files can easily be misled or buried in in-trays, in which case the information they contain is not available to all.
3) Risk of Errors:
The risk of errors is greater, especially in repetitive work like payroll calculation. Alterations it is difficult to make corrections. If a existing documents contains errors or need updating it is often.
4) Expensive:
Bulk Paper based systems are generally very bulky both to handle and to store, and office space is expensive necessary to recreate the whole documents from scratch, rather than just a new version with the relevant details changed.
IV. PROPOSED SYSTEM

The proposed system is meant for forest and wildlife departments, to ease the maintaining and reviewing of records. It is achieved through a portal which will gather and store all the record details about the forest department, illegal activity tracking & controlling system. The system also helps to schedule and monitor the task of forest officer and all other workers and also maintains staff details for assigning the task.

A. Advantages:

1) Speed:
The main difference between existing and purposed systems is speed. It processes data and creates reports much faster than existing systems. Calculations are done automatically in software programs, minimizing errors and increasing efficiency. Once data is input, you can create reports literally by pressing a button in a purposed system.

2) Cost:
The difference between existing and purposed systems is cost. Existing accounting with paper and pencil is much cheaper than a purposed system, which requires a machine and software. Other expenses associated with accounting software include training and program maintenance. Expenses can add up fast with costs for printers, paper, ink and other supplies.

3) Backup:
A difference between existing and purposed systems is the ease of backup of a purposed system. All transactions can be saved and backed up, in case of fire or other mishap. You cannot do this with paper records, unless you make copies of all pages—a long and inefficient process.

V. FUNCTIONALITY

A. Staff Management:

Staff maintenance is, collecting and storing the bio-data of forest staff members in system database. Maintenance of the staff strength in the forest office in different disciplines of each branch office and updation of staff attendance.

B. Forest/wildlife:

The forest authorities do tag and keep count on total number of trees within their forest premise. Similarly conduct frequent census on total number of animals. All the records are taken into online for easy maintenance, in case of trees cut down or newly planted, in case of animal death or newly born, every time the database will be updated.

C. Schedule Work:

In every forest department branches the manager who is in charge will chart the daily activities. The manager will forward the jobs assigned to each and every staff members under his roof. The tasks for each faculties are intimated through SMS.

D. Accounts:

Each branch has to maintain an accurate record of all money related transactions done by them. The transactions include the capital, which is the budget allocated by the center to different branches, and each branch has to keep track of all the expenses they had and purpose of spending the allowed money, materials purchased, salary details. Every month end the branch has to tally the budget with amount spent.

E. Monitoring:

In the maintenance stage itself all the trees and animals count will be recorded, and a monitoring team is organized. The monitoring team is assigned with the task of date to date monitoring particular area. Some people are coordinated to take check up on any kind of illegal activities happening within the forest area, illegal deforestation, attack on animals so on. The case sheet and penalties for the culprits are all produced and stored online.
VI. CONCLUSION

With the proposed system the traditional way of storing data manually in sheets and papers have become obsolete. The system focus on automation of all the work flows in the forest department. It helps to achieve faster data storage and retrieval. Compared to the existing system, the proposed one is not only faster but also economical, the cost to implement is pretty cheap. Last but not the least the proposed system maintains all the data in multiple systems, providing data backup, thereby assuring data security under any mishap.

REFERENCE