

# Web-Based Lost and Found System

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**Abstract—** Nowadays, people lose their belongings frequently, and it became a very common incident in this world. To find those lost articles, they basically go to the police stations to lodge a file for those items, they advertise for those items on social media, print media etc. But these processes don't work as effective. So, this research paper shows the development of a web-based application which is basically a lost and found system. This system will provide a single platform for both the persons who have lost their belongings and the persons who have found some articles. In this application both the persons have to first register themselves then they have to list that particular item over the website with the details of its characteristics and if they have the picture of that item then they can also upload that particular picture over the lost/found article section. In this the Police will act as a mediator between both parties.

## I. INTRODUCTION

Nowadays, human life become so complex and mixed up so it becomes very frequent for the persons to lose their belongings at different places. Hence a system has to come in front which work over these lost articles and help it's users to get back their lost belongings. This kind of lost/found system is already being introduced in some countries like France, UK and Japan. From few past time these type of system have been evolved. And trying to eliminate the obstacles come in the process. As there was a traditional system which relies on a non-connected network, information lagging problem, data efficiency problem still exist in those systems [5]. So, our lost/found system will try to eliminate these problems, making it well connected with all the end to end frames. So that the user will get a smooth service and get their work done swiftly and without much obstacles.

## II. REVIEW OF LITERATURE

Technology has been modernizing from a few recent times. It facilitates the network of the problems and make

it less problem network. So that the betterment of the humankind can take place. However, when it comes to lost and found and about the personal belongings of the persons that are lost then some researches are done for that but most of them takes problem of how to locate the items properly [1]. Research shows that when a Bluetooth enabled tag is attached to the items and when they are close to 30 meter of the blind person's divide the it beeps. Another report is based on a community work system, which basically leads to tack the lost items of the respective persons, so it is completely based on the participation of the people of the community that how they help accordingly in this purpose. So, they basically made a community tracking system in which RFID tag is applied on the object [2]. It provides a lot of information like what is the location of the item, the person from whom the item got missed, also the searching strategies can be tracked on by this [3]. Also, websites have been made mainly use English language for interaction. These basically based on working that volunteer's registration move them to work on. So, in our project the main purpose is to take dynamic data as input not static data which basically helps the society and its dwellers. Also, it is not limited to a small sized environment, it basically can handle a lot wide environment of the society [4]. In this the person who lost the item has to register and list it, then someone who find it also volunteer to provide it and hence item got found out.

## III. WORKING

As it is already discussed before, our project basically has 3 main parts in it which works altogether to get the job done for the user. So, the first part is the person who lost his or her item. The second part is the person who got the lost item and the third part is the Police, which act as the intermediate body between the two parties. Now the person who lost the item, at the very start has to register over the website and if he or

she is already a user then he or she has to just log in with the credentials. Now after this the person has to add the

Characteristics of his/her belongings, like brand of that article, its color, its dimensions, the place where the item has the probability to be lost, the photo of the item which is optional factor as the person can have the photo of the item or doesn't have it with him or her, the material of the item, etc. Now the system will match these characteristics from the characteristics of the items which are already been present in the system and if a match is being found then the item is shown to the person on the website and if it doesn't match then the person has to wait for it to be found. Now the second role is of the person who got the lost item, so that person also has to list it, then comes the role of the third frame of the system and that is Police. Now the Police will act as a mediator between the two parties and get the process done smoothly after some verification processes. So that's how our system works in a whole.

#### IV. SYSTEM MODELS

In the analysis and the design phase of our system, graphical representations and some demonstration of the system structure is very important aspect, so in this research paper we opted a Data Flow Diagram in “Fig. 1” and the Use Case diagram in “Fig. 2” for the representation of the complete system. The upcoming sections will reveal the information about all the actors involved, how they behave, information about input and output data, flow of the data and other information. To demonstrate the processes of the system we opted a flow chart in “Fig. 3”.

##### A. DFD Context Diagram

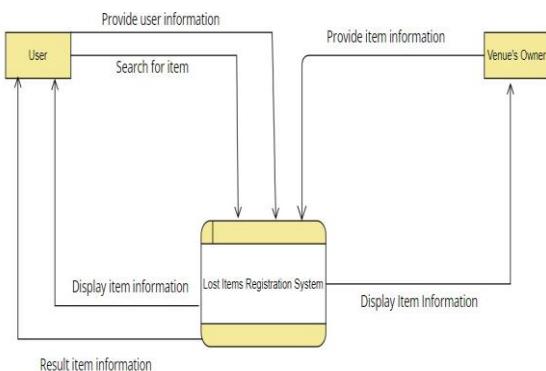


Fig. 1. DFD context diagram

##### B. Use Case Diagram

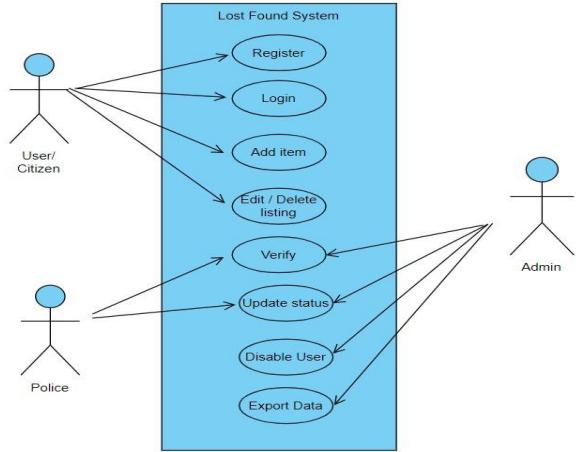


Fig. 2. Use Case Diagram

##### C. Flow Chart

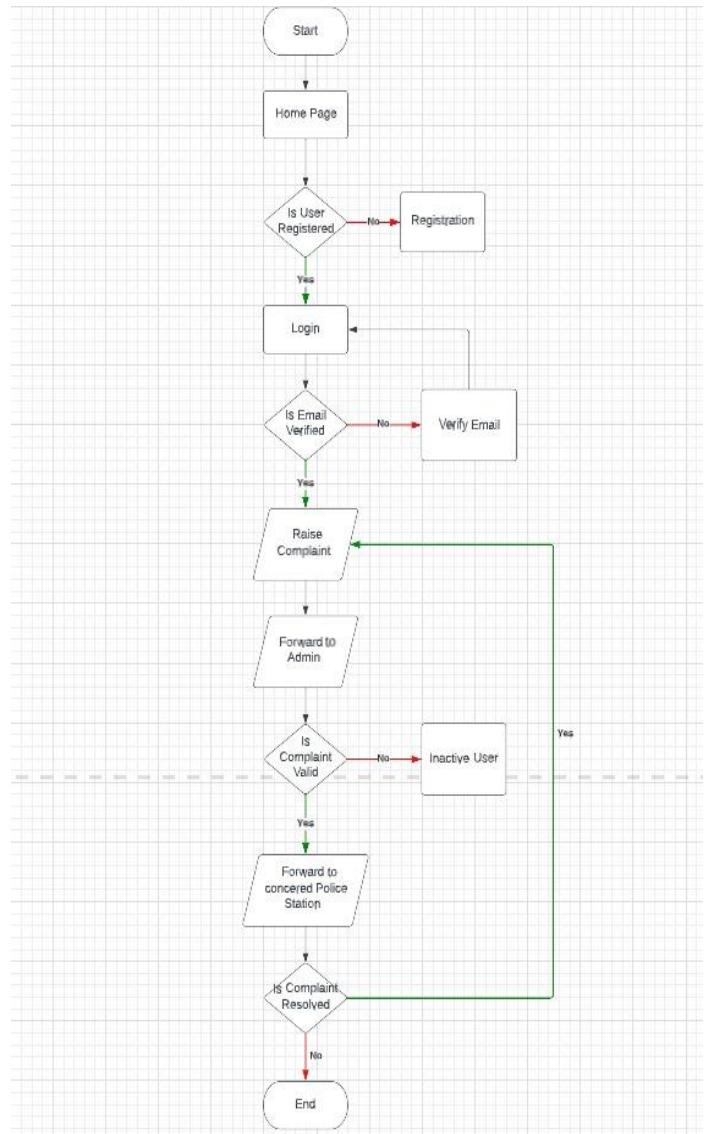


Fig. 3. Flow Chart

## V. METHODOLOGIES

In the You Lost We Found system we used 3 Module.

### A. Citizen Module

### B. Admin Module

### C. Police Module

#### A. Citizen Module

In this module, it is available for the citizen where first registered in the system and raise a complaint of lost item and find item. Also, they can track their complaints processing status on the system.

#### B. Admin Module

In this module admin can verify the user by their email and one identity details. These details will be asked to the user when they registered themself on the system.

#### C. Police Module

In this module, Police is responsible for the verification purpose of the item. When a user raises a complaint of their lost item or find the item this notification directly transferred in the police module.

#### D. Algorithm for Lost and Found System

- 1- Go to home page.
- 2- If user is already registered then go to “step-3”, otherwise register the user.
- 3- User login.
- 4- If the email is verified then go to “step-5”, otherwise verify email.
- 5- Raise complaint by user.
- 6- Complaint received by admin.
- 7- Admin verify the complaint.
- 8- If complaint is valid then send to concerned Police Station, otherwise inactive the user.
- 9- If Police Station resolves the complaint, then send the feedback to the concerned user.

## VI. PROTOTYPE

### A. Registration Form

The registration form is being shown below in “Fig. 4”. In this user has to provide his/her details as like their name, email address, Aadhaar number (to filter fake users in between genuine users), mobile number and user must create password for future login purpose. All this information of the user is being taken which is helpful in the communication process with the user.

The registration form is titled "Register". It features a logo for "YOU LOST WE FOUND FIND YOUR LOST STUFF" on the left side. The form contains the following fields:

- Full Name
- Email
- Enter Aadhaar Card Number
- Aadhaar Number
- Mobile Number
- Password
- Confirm Password

An orange "Register" button is located at the bottom right of the form area. Below the form, there is a horizontal line with the text "OR" in the center. At the bottom right, there is a link "Already have an account? Login".

Fig. 4. Registration Form

### B. Lost/Found Article report form

There is an "add an item" form provided, in this form user has to give the details about the lost item which he/she wants to list on the website. The user has to provide the details of the item like the expected location of the place where the item could get lost, so that the items can be set in an organized manner also the person can upload a picture of that particular item which will help a lot in the whole process. The user has to provide some detailed information about the lost item, like the item's brand name, colour, specifications, and some other kind of stuff about the lost article. All these details are very necessary in the process of finding the lost articles and also these details must be entered properly and in a

correct manner so that the process of finding that particular lost article can become smooth. It can be filled in the form provided in the lost/found system in “Fig. 5”.

## VII. CONCLUSION

The screenshot shows a web-based form titled "Add New Complaint". The form has a red header bar with the title. Below it is a white input field labeled "Enter Title". A note below the field says "Separate details by comma(.)". There is a large text area for "Mention Everything Related To Your Lost Item...". Below that are three dropdown menus: "Select State", "Select District", and "Select Area". Underneath these is a date input field showing "25-01-2023" with a calendar icon. At the bottom is a green "Submit" button.

Fig. 5. Report an item as lost/ found form.

Due to the development in the Internet era, the traditional lost/found system, a versatile website comes out to function for the human society. This new system will fulfil the loop hole in the society about the lost/found articles. And makes the human life easier and with less obstacles. The system flow found models can be combined organically to support each other and stabilize the performance requirements. This project basically works on dynamic data social framework to help the human community, so that they can work in a combined manner and helps to solve the problems all together.

## REFERENCES

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