



LOST AND FOUND PORTAL

PROJECT MANUAL

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PROJECT MANUAL

BRIEF DESCRIPTION

- ✚ Lost and Found Portal is an Intranet based platform which is developed with the view of bringing all notifications regarding lost/found items at one place, thereby reducing the problem of spamming in the campus and also, allow people to find their lost items as conveniently as possible.
- ✚ It allows people, exclusively from the campus, to post details about the items lost/found by them on the portal which can later be viewed by other users.
- ✚ Users will be able to view/edit/delete the item details posted by them. Additionally, they will be able to view the list of all found items matching their particular lost item separately and vice versa.
- ✚ Users can claim an item by sending mail notification to another user via the portal.

SYSTEM REQUIREMENTS

FOR THE SERVER

- ✓ Django 1.6.2 should be installed along with django-haystack, PIL and whoosh APIs.
- ✓ Database set up on the server : MySQL, PostgreSQL or SQLite
- ✓ Apache HTTP server with mod_wsgi

FOR THE CLIENT

- ✓ Web browser with HTML5 support alongwith Javascript and cookies enabled.

HOW TO OBTAIN, BUILD AND INSTALL

- ❖ Make sure python is installed on the machine. (It is usually preinstalled in Ubuntu; for Windows, setup can be downloaded and installed from <https://www.python.org/>). To check python is installed, give the following commands:

python

If python shell gets opened, python is successfully installed.

- ❖ Then, ensure **pip** is installed. Generally, it comes with python. To check if **pip** is installed, type the following in terminal:

which pip

If the output is some directory path, pip is successfully installed. Otherwise, give the following command:

```
curl --silent --show-error --retry 5  
https://raw.githubusercontent.com/pypa/pip/master/contrib/get-pip.py | sudo python2.7
```

- ❖ Install the following to successfully run the application:

Django : \$ pip install Django==2.6.2

PIL : \$ pip install PIL

Whoosh : \$ pip install Whoosh

Django-haystack: \$ pip install django-haystack

- ❖ The code for the application can be accessed from the **lostnfound** folder present on the Version Control System of the institute.
- ❖ Alternately, it can be accessed from github:
<https://github.com/elitecode/LostNFound>
- ❖ The code need not be built or installed. It can be directly run by following the HOW TO RUN guide.

HOW TO RUN

STARTING THE SERVER

1. Open the terminal and reach inside the LostNFound_Project directory.
2. Run the following command to start the Django development server:

python manage.py runserver

The following output will be displayed on successful starting of the server.

```
E:\4th Semester\CS Project\final\LostNFound_Project>python manage.py runserver
Validating models...
```

```
0 errors found
April 30, 2014 - 18:47:42
Django version 1.6.2, using settings 'LostNFound_Project.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

USING THE PORTAL

1. Once the server has started on localhost:8000, the portal can accessed through any web browser with the url **localhost:8000/Inf**. Once you have opened the portal, you will be welcomed by the following home page.

2. Here, you need to login using your @iitrpr.ac.in mail id and your password for this portal.

- If you have not yet registered on the portal, click on the **Register** button which will open input field asking for your email id. When the **Get Registered** button is click, the Registration page will open if your email id is successfully verified, otherwise you will be shown an error.

LOST and FOUND portal

Login to continue

Email ID : yagnikkb@iitrpr.ac.in ✓

Get Registered! Cancel

(Go back to Login)

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- On the registration page, enter your name and address and then, press the **Register** button to get registered on the portal.

LOST and FOUND portal

Welcome to registration

Email ID : yagnikkb@iitrpr.ac.in

Name : Kaushal Yagnik ✓

Address : Jupiter Hostel 201 ✓

Register

All the fields in this form are mandatory

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- After successful registration, an email will sent to you on the mail id provided containing the password. Next, you will be redirected to the home page where you can login to enter the portal.

LOST and FOUND portal

Login to continue

An Email has been sent to you containing the password

Email ID :

Password :

LOGIN

Are you a new user? **REGISTER** your email here...

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LOST and FOUND portal

Welcome, Kaushal

My Profile **Logout**

My lost items...

I have lost something...

Browse all lost...

My found items...

I have found something...

Browse all found...

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6. On successful login to the portal, you will be taken to the main page of the portal where you will find the following useful links:

I HAVE LOST SOMETHING

LOST and FOUND portal

Welcome, Kaushal

[Home](#)
[My Profile](#)
[Logout](#)

Enter the details of the Lost item

Category * : Gadget

Item Name * : Ipod Nano

Place Lost * : Cafeteria

Date lost * : 2014-04-25

Tags :

HDFC

phone

Earring

sports

Add custom tag

ipod

Insert tag

Description : Orange color Very Slim

Image : [Browse...](#) IMG_1352-500x375.jpg

SUBMIT

Fields marked with * are mandatory.

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- When a user clicks on this link, a form will load where the user can specify the details regarding the item he has lost such as item name, category, description, tags (important points about the item), image and date lost. Some of them are required denoted by an asterisk (*).
- After successful submission, the user will be redirected to the page of the recently created lost item.



Item Name : Ipod nano

Lost by : Kaushal Yagnik

Category : Gadget

Place lost : Cafeteria

Date lost : 04/25/2014

Tags :

Description : Orange color Very Slim

[Edit item detail](#)
[Delete item](#)

Items Relevant to this item

Item Name	Category	Description
Ipod	Gadget	

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I HAVE FOUND SOMETHING

LOST and FOUND portal

Welcome, Gaurav

[Home](#)
[My Profile](#)
[Logout](#)

Enter the details of the Found item

Category * : Gadget

Item Name * : ipod

☐ Anonymity

Place Found * : Canteen

sports
book
classmate
ipod

Add custom tag

 Tag inserted

Description : orange color

Image : No file selected.

Fields marked with * are mandatory.

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- When a user clicks on this link, a form will load where the user can specify the details regarding the item he has found such as item name, category, description, tags (important points about the item), image and date lost. Some of them are required denoted by an asterisk (*). He can also specify to remain anonymous.
- After successful submission, the user will be redirected to the page of the recently created lost item.
- Also, if any lost item existing in the database matches this found item, a mail will be sent to the user corresponding to the best matched item notifying him/her about the newly created found item.

MY

LOST

ITEMS

LOST and FOUND portal				
My Lost items				Welcome, Kaushal Yagnik
Home My Profile Logout				
Image	Item Name	Category	Description	Change..
	ipod nano	Gadget	Orange color Very Slim	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

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- When a user clicks on this link, he/she will be taken to a page listing the items lost by him/her.
- The details of a particular object can be seen by clicking on its name which will display a page containing the items details and options to edit and delete it.

My FOUND ITEMS

LOST and FOUND portal					Welcome, Gaurav
My Found items					Home My Profile Logout
Image	Item Name	Category	Description	Change..	
	Ear ring	Jewellery	Gold valuable	Edit Delete	
	Mobile phone	Gadget	Brand new smartphone	Edit Delete	
	Copy	Textbook	white copy.	Edit Delete	
	Ipod	Gadget		Edit Delete	
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- When a user clicks on this link, he/she will be taken to a page listing the items found by him/her.
- The details of a particular object can be seen by clicking on its name which will display a page containing the items details and options to edit and delete it.

BROWSE ALL LOST ITEMS

LOST and FOUND portal

Welcome, Gaurav

Browse items

Home

My Profile

Logout

Search Query:

Category:

Relevance:

Filter

Item Name	Category	Description
Id card	ID Card	Has my photo on it !
Samsung mobile phone	Gadget	A 757 wave model
Watch	Gadget	
Book	Textbook	
Ipod nano	Gadget	Orange color Very Slim
Basketball	Sports	lost it somewhere in the court

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- When a user clicks on this link, he/she will be taken to a search page where the user can browse through the list of all the lost items present in the database.
- The user can filter the items according to category, pass strings to search for items in the database and also, order the items according to relevance, name or date lost.

- The user can view the details of a particular object by clicking on its name.

BROWSE ALL FOUND ITEMS

LOST and FOUND portal

Welcome, Gaurav

Browse items

Search Query: Category: Relevance:

Item Name	Category	Description
Laptop charger	Gadget	65W charger found in MP Hall
Credit card	Money	Credit Card Found. Please verify to claim
Ear ring	Jewelery	Gold valuable
Mobile phone	Gadget	Brand new smartphone
Copy	Textbook	white copy.
Ipod	Gadget	
Del toro	Textbook	AC no 22551

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- When a user clicks on this link, he/she will be taken to a search page where the user can browse through the list of all the found items present in the database.
- The user can filter the items according to category, pass strings to search for items in the database and also, order the items according to relevance, name or date lost.
- The user can view the details of a particular object by clicking on its name.

ITEM DESCRIPTION PAGE



Item Name : Ipod nano
 Lost by : Kaushal Yagnik
 Category : Gadget
 Place lost : Cafeteria
 Date lost : 04/25/2014
 Tags :
 Description : Orange color Very Slim

Items Relevant to this item

Item Name	Category	Description
Ipod	Gadget	

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- When a user clicks on the name of an item anywhere in the portal, he will be shown the description page for that item.

- This page displays all sorts of information related to the item such as related user, image, description, tags, anonymity (in case of found item), date lost (in case of lost item) and category.
- Along with these, if the item was posted by the same user, he will get links to either edit the details for that item or even delete that item altogether.
- If the item was posted by some other user, the user visiting the item will get a text box which can be used to send mail to the concerned user.

EDIT PROFILE

LOST and FOUND portal

Welcome, Gaurav

Home Logout

Edit..

Email ID : gauravmi@iitrpr.ac.in
Name : Gaurav
Address : Room: 210 Jupiter House

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LOST and FOUND portal

Welcome, Gaurav

Home Logout

Email ID : gauravmi@iitrpr.ac.in
Name : Gaurav
Address : Room: 210 Jupiter House
Old Password :
New Password :
Confirm Password :

Apply Cancel

All the fields in this form are mandatory

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- This page provides the user the functionality to edit his/her name, address and even password (only after providing his/her old password).

LOGOUT

LOST and FOUND portal

Login to continue

Successfully Logged Out

Email ID :

Password :

LOGIN

Are you a new user? [REGISTER](#) your email here...

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- When a user clicks on this button, he will be logged out of the portal and all cookies will be deleted automatically without him/her knowing about it.