

# IIIT Hostel Management Portal developed using WEB2PY

May 5, 2015

## Contents

1. Brief description of the web application.
2. Features
  - Functions
  - UI Screenshots
  - Schema of tables

## Part I

### Brief Description:

This web app has been developed as a part of our ITWS 2 project work and made using WEB2PY.

IIIT Hostel Management Portal is a simple portal where students can **Log In** and then Book their rooms before the start of the semester, post complaints, subscribe for newspapers, fix an appointment with a Doctor and even register a Lost or Found entry.

### Salient Features:

- Room Booking
- Complaint Entry
- Laptop Registration
- Lost and Found Entry
- Newspaper Subscription
- Feedback

#### Note

- When booking a room a person can book a room only once and then changes can only be overridden by the Admin.
- Complaints entered by a person are visible to the person who made the entry and the Admin.
- Similar goes for newspaper subscriptions and laptop registration.
- Feedback once given cannot be undone.
- A person must sign up and be logged in to use any of the above services.
- To ensure a person is a reliable source and a student of IIIT he/she must first confirm his/her registration during sign up by clicking on the link sent to their email address.

## Part II

### Main Features:

1. **Complaint** Here users can add complaints and view complaints.
2. **Laptop** Here users have to register their laptops.
3. **Medical** To fix an appointment with a doctor or in case of an Emergency contact the Admins.
4. **Lost&Found** To post if an item gets lost.
5. **Room Allocation** Here users can book a room.
6. **Newspaper** Users can subscribe for a newspaper.
7. **Feedback** Users can give their feedbacks.

### Functions:

These are present in the default.py file in the Controllers.

1. **write\_complaint():**This function creates a form to add the complaint to the complaint table.
2. **view\_complaint():**This function displays the contents of the complaint table of the user currently logged in or all the complaints of the registered users to the Admins.
3. **my\_complaint():**This function returns a grid to display a particular complaint.
4. **medical\_request():**This function creates a form to schedule an appointment with a doctor by specifying the convenient time.  
In case of an emergency a user can click on the **Emergency** button and this will automatically send a mail to the admins informing them of an emergency.
5. **my\_requests():**This functions returns a grid which displays the medical requests of the user currently logged in or all the requests of the registered users to the Admins.
6. **view\_request():**This functions returns a grid which displays a particular medical request.
7. **laptop\_entry():**This function creates a form to add the details of a

student's laptop to the Laptop table.

**8. my\_laptops():**This function returns a grid to view the details of the user's laptop entries or the laptop entries of all the registered users by the Admins.

**9.lostandfound\_entry():**This function creates a form to add a lost entry and this is added to the table Lost.

**10.view\_lostandfound():**This returns a grid containing the details of the table Lost where the registered users can view all the lost entries and can make comments.

**11.view\_lost():**To view a particular lost entry and comment.

**12.room\_allocation():**This function creates a form to select room no from any floor and any block D,E or OBH. Here each user can select a room only once and it can be changed only by the Admin.

**13.newspaper():**This function creates a form where users can subscribe for a newspaper.

**14.my\_newspapers():**This function creates a grid where users can view their newspaper subscriptions and Admin can view the subscriptions of all the registered users.

**15.feedback\_entry():**This function creates a form to enter feedback.

**16.view\_entry():**This function returns a grid to enable the Admin to view the feedback given by the users.

**17.adminship():**This function defines the adminship of the users like Superadmin, Admin or regular users.

## Schema of the Tables:

These tables are present in db.py file in Models

1. db.define\_table('complaint', Field('roll', 'integer', writable=False, requires=[IS\_INT\_IN\_RANGE(20070101, 20170101)]), Field('category', requires=IS\_IN\_SET(CAT)), Field('subject', requires=IS\_NOT\_EMPTY()), Field('description', 'text', requires=IS\_NOT\_EMPTY()), Field('image', 'upload', uploadfield='myblob'), Field('myblob', 'blob'), auth.signature)
2. db.define\_table('Laptop', Field('roll', 'integer', writable=False, requires=[IS\_INT\_IN\_RANGE(20070101, 20170101)]), Field('category', requires=IS\_IN\_SET(brand)), Field('Serial', requires=IS\_NOT\_EMPTY()), Field('description', 'text'), Field('image', 'upload', uploadfield='myblob'), Field('myblob', 'blob'), auth.signature)
3. db.define\_table('Lost', Field('roll', 'integer', writable=False, requires=[IS\_INT\_IN\_RANGE(20070101, 20170101)]), Field('Item', requires=IS\_NOT\_EMPTY()), Field('Place\_Where\_Lost', requires=IS\_NOT\_EMPTY()), Field('description', 'text', requires=IS\_NOT\_EMPTY()), Field('image', 'upload', uploadfield='myblob'), Field('myblob', 'blob'), auth.signature)
4. db.define\_table('comm', Field('complaint', 'reference complaint'), Field('body', 'text'), auth.signature)
5. db.define\_table('comm2', Field('Lost', 'reference Lost'), Field('body', 'text'), Field('founditem', 'boolean'), auth.signature)
6. db.define\_table('med', Field('roll', 'integer', writable=False, requires=[IS\_INT\_IN\_RANGE(20070101, 20170101)]), Field('description', 'text'), Field('doctor', requires=IS\_IN\_SET(MED)), Field('availablefrom', 'time', requires=IS\_TIME(), default='6:00'), Field('availableto', 'time', requires=IS\_TIME(), default='6:00'), Field('emergency', 'boolean'), auth.signature)
7. db.define\_table('medcomm', Field('med', 'reference med'), Field('body', 'text'), auth.signature)
8. db.define\_table('news', Field('roll', writable=False), Field('newspaper', requires=IS\_IN\_SET(NEWS)), Field('validfrom', 'date', default=request.now.date), Field('validupto', 'date'), auth.signature)
9. db.define\_table('obh', Field('floorno', writable=False, requires=IS\_IN\_SET(FLOOR)), Field('room', writable=False), Field('person', requires=IS\_IN\_DB(db, db.auth\_user.Rollno)), )
10. db.define\_table('d', Field('floorno', writable=False, requires=IS\_IN\_SET(FLOOR)), Field('room', writable=False), Field('person1', requires=IS\_IN\_DB(db, db.auth\_user.Rollno)), Field('person2', requires=IS\_IN\_DB(db, db.auth\_user.Rollno)) )

```
11. db.define_table('med', Field('roll','integer',writable=False,requires=[IS_INT_IN_RANGE(200701000,201547000)],
Field('description','text'), Field('doctor',requires=IS_IN_SET(MED)), Field('availablefrom','time',requires=IS_TIME()),
Field('availableto','time',requires=IS_TIME(),default='6:00'), Field('emergency','boolean'),
auth.signature)
```

```
12. db.define_table('Feedback', Field('roll','integer',writable=False,requires=[IS_INT_IN_RANGE(200701000,201547000),IS_NOT_IN_DB(db,'Feedback.roll'),IS_NOT_EMPTY()]),
Field('Room_Rating',requires=IS_IN_SET(rates)), Field('Washroom_Rating',requires=IS_IN_SET(rates)),
Field('Extra_Comments','text'), auth.signature)
```


# UI Screenshots

## 1.HomePage

IIIT Hostel Management

HomeComplaint ▾Laptop ▾Medical ▾Lost & Found ▾Room AllocationNewspaper ▾Feedback ▾IIIT Home

Log In ▾



### Palash Niwas - List of all concerned admins and Wardens

Name	Designation	E-Mail ID	Tel Extn	Res Tel No	Mobile No.
Prof. Shatrunjay Rawat	Chair CoW	shatrunjay.rawat@iiit.ac.in	1346	66531923	9491398522
Dr. R Govindarajulu	Chief Warden	gregeti@iiit.ac.in	1153(0)	66531205	9848152549
Dr Kalla Ram Babu	Warden	rambabu.kalla@iiit.ac.in	1536 (0)	-	8886914433
Dr RC Prasad	Warden – Medical & Healthcare	rcprasad@iiit.ac.in	1343	-	9246109160
Shri Bhanu Pratap Sharma	Hostel Care Taker (Palash Nivas)	bhanu.sharma@iiit.ac.in	1324	-	9032869610
Shri Narendra Phani Kumar	Hostel Care Taker (Palash Nivas)	narendra.phani@iiit.ac.in	1599	-	9553931691

**AMBULANCE SERVICE:**  
Name: Shri Umapathy  
Mobile No.: 9676477748

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## 2.Login

IIIT Hostel Management

HomeComplaint ▾Laptop ▾Medical ▾Lost & Found ▾Room AllocationNewspaper ▾Feedback ▾IIIT Home

Log In ▾

### Log In

E-mail

Password

☐ Remember me (for 30 days)

Log In

Sign Up

Lost Password

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### 3.Complaints

IIIT Hostel Management

HomeComplaintLaptopMedicalLost & FoundRoom AllocationNewspaperFeedbackIIIT HomeWelcome Dhruv

Fan not working

Created On 2015-05-03 19:33:35 by Dhruv Khattar

Category: Electricity  
Roll No.: 201402087

Description:

Subject says it all.

Comments:

now Dhruv Khattar said:  
Please get it checked asap.

Body

IIIT Hostel Management

HomeComplaintLaptopMedicalLost & FoundRoom AllocationNewspaperFeedbackIIIT HomeWelcome Dhruv


Spider Webs

Created On 2015-05-03 19:48:36 by Dhruv Khattar

Category: Others  
Roll No.: 201402087

Description:

The whole room is full of webs.





IIIT Hostel Management

[Home](#)
[Complaint](#)
[Laptop](#)
[Medical](#)
[Lost & Found](#)
[Room Allocation](#)
[Newspaper](#)
[Feedback](#)
[IIIT Home](#)
[Welcome Dhruv](#)

## Dhruv Khattar 's Complaints:

Search

Clear

1 records found

Id	Roll	Category	Subject	Description	Image	Myblob
1	201402087	Electricity	Fan not working	Subject says it all.		<div>Delete</div>

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[Home](#)
[Complaint](#)
[Laptop](#)
[Medical](#)
[Lost & Found](#)
[Room Allocation](#)
[Newspaper](#)
[Feedback](#)
[IIIT Home](#)
[Welcome D](#)

## Student's Complaints:

Search

Clear

2 records found

Id	Roll	Category	Subject	Description	Image	Myblob
2	201402087	Others	Spider Webs	The whole room is...	file	<div>Delete</div>
1	201402087	Electricity	Fan not working	Subject says it all.		<div>Delete</div>

Export:
 

CSV

CSV (hidden cols)

HTML

JSON

TSV (Spreadsheets)

TSV (Spreadsheets, hidden cols)

XML

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## 4.Lost&Found

IIIT Hostel Management

HomeComplaintLaptopMedicalLost & FoundRoom AllocationNewspaperFeedbackIIIT HomeWelcome Dhruv

Lost And Found Entry:

Roll201402087

Item

Place Where Lost

Description

Image No file selected.

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IIIT Hostel Management

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Watch

Created On 2015-05-03 19:40:05 by Dhruv Khattar

Place: Library  
Roll No.: 201402087

Description:  
Black G-Shock

Comments:

Body

☐ Founditem

Success!

## 5.Laptop Entry and Views

IIIT Hostel Management

HomeComplaintLaptopMedicalLost & FoundRoom AllocationNewspaperFeedbackIIIT HomeWelcome Dhruv

Laptop Entry:

Roll201402087

Category

Serial

Description

Image

Browse...No file selected.

Submit

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IIIT Hostel Management

HomeComplaintLaptopMedicalLost & FoundRoom AllocationNewspaperFeedbackIIIT HomeWelcome Dhruv

Dhruv Khattar 's Laptop Entries:

Search

Clear

1 records found

Id	Roll	Category	Serial	Description	Image	Myblob
1	201402087	Dell	1NL2T02		file	<div>Delete</div>

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## 6. Medical Requests

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Medical Request

Note : Clicking on the **emergency** option will automatically send a mail to all the concerned hostel admins. Mail will be checked by them from 11am - 4pm on working days only . Call them on mobile on other timings or if you did not get a response.

Roll

201402087

Description

Doctor

Availablefrom

2:00

Availableto

6:00

☐ Emergency

IIIT Hostel Management

HomeComplaintLaptopMedicalLost & FoundRoom AllocationNewspaperFeedbackIIIT HomeWelcome Dhruv

Medical Request

Created On 2015-05-03 19:38:43 by Dhruv Khattar

Roll No.: 201402087

Description: Heart Attack

Doctor: Others

Available From: 02:00:00

Available To: 06:00:00

Comments:

Body

Submit

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[Home](#)
[Complaint](#)
[Laptop](#)
[Medical](#)
[Lost & Found](#)
[Room Allocation](#)
[Newspaper](#)
[Feedback](#)
[IIIT Home](#)

Welcome Dhruv

## Dhruv Khattar 's Medical Requests:

1 records found

Id	Roll	Description	Doctor	Availablefrom	Availableto	Emergency	
1	201402087	Heart Attack	Others	02:00:00	06:00:00		<input type="button" value="Delete"/>

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## 7.Newspaper Subscriptions

IIIT Hostel Management

[Home](#)
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[Laptop](#)
[Medical](#)
[Lost & Found](#)
[Room Allocation](#)
[Newspaper](#)
[Feedback](#)
[IIIT Home](#)

Welcome Dhruv

## Newspaper Subscription

Roll

201402087

Newspaper

Validfrom

Validupto

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[Home](#) [Complaint](#) [Laptop](#) [Medical](#) [Lost & Found](#) [Room Allocation](#) [Newspaper](#) [Feedback](#) [IIIT Home](#) [Welcome Dhruv](#)

## Newspaper Subscription

Roll

201402087

Newspaper

Times of India

Validfrom

Validupto

May, 2015

17	18	19	20	21	22	23
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Wed, May 6

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[Home](#) [Complaint](#) [Laptop](#) [Medical](#) [Lost & Found](#) [Room Allocation](#) [Newspaper](#) [Feedback](#) [IIIT Home](#) [Welcome Dhruv](#)

## Dhruv Khattar 's Subscriptions:

Search

Clear

1 records found

Id	Roll	Newspaper	Validfrom	Validupto	
1	201402087	Times of India	2015-05-03	2015-05-31	Delete

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## 8.Super Admin

IIIT Hostel Management

HomeComplaint▼Laptop▼Medical▼Lost & Found▼Room AllocationNewspaper▼Feedback▼IIIT HomeWelcome Super▼

Hostel Admins

+Add Record

Search

Clear

1 records found

User ID
D K dhruvk1996@gmail.com

Delete

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## 9.Admins

IIIT Hostel Management

HomeComplaint▼Laptop▼Medical▼Lost & Found▼Room AllocationNewspaper▼Feedback▼IIIT HomeWelcome Dhruv▼

Hostel Admins

Search

Clear

1 records found

User ID
D K dhruvk1996@gmail.com

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## 10. Sign Up

The screenshot shows a web browser window with the title "Hostel - Mozilla Firefox". The address bar displays the URL "127.0.0.1:8000/hostel/default/user/register?\_next=/hostel/default/index". The page header is dark gray and contains the text "IIIT Hostel Management" followed by navigation links: "Home", "Complaint", "Laptop", "Medical", "Lost & Found", "Room Allocation", "Newspaper", "Feedback", "IIIT Home", and "Log In". The main content area is light gray and features a "Sign Up" heading. Below the heading is a registration form with the following fields: "First name", "Last name", "E-mail", "Password", "Rollno", "Branch" (a dropdown menu), "Dob", and "Homeaddress".

Sign Up

First name

Last name

E-mail

Password

Rollno

Branch

Dob

Homeaddress



END

This web application was developed by Dhruv Khattar(201402087) and Siddhartha Gairola(201402068). Thank you.

