

Introduction:

A.Project Details:

This project 'Office_App' is to keep track of visitors who visits office everyday . There is sign_in guest page where guests have to sign_in and provide their details eg name,phone number,email and employee id of company's employee they want to visit. This information will be load in to the database . There is one, Sign_in Admin page where Admin can view the entire list of visitors including all the details they provided while signing_in . He can also download this information as a csv file n tsv spreadsheet file .He also can search about particular record n can filter the list of visitors based on their arrival date .

B.Implementation Details:

This is an web based application and I have used web2py web framework with MySQL database .

a).Models:

In Models there are two files db.py and menu.py.In db.py file , DAL object represent a database connection .It also includes the decription of table 'visit-log' and its associated files. I have used gluon module to put validations on the fields of table to avoid irrelevant data entry by visitors.

b).Controllers:

In controllers, there are 4 files.

- 1.The home.py file displays the welcome message and has links of sign-in Guest and sign_in Admin page as well.
- 2.In Singinguest.py ,I have used SQLFORM.factory which generates a form very similar to SQLFORM from the description of a table 'visit_log'with python dictionary.
- 3.In Signinadmin.py , the index() function allows admin to enter correct username and password . If the username and password are incorrect it flashes' Invalid login'message.
The Admin() function shows the list of visitors to Admin. In this , I have used SQLFORM.GRID which is an high level object that create complex CRUD controls.It also provide pagination, the ability to browse, search, sort, create, update and delete records from a single object.
- 4.The welcome.py file displays welcome message to visitor who has just signIn with its name .

c).Views:

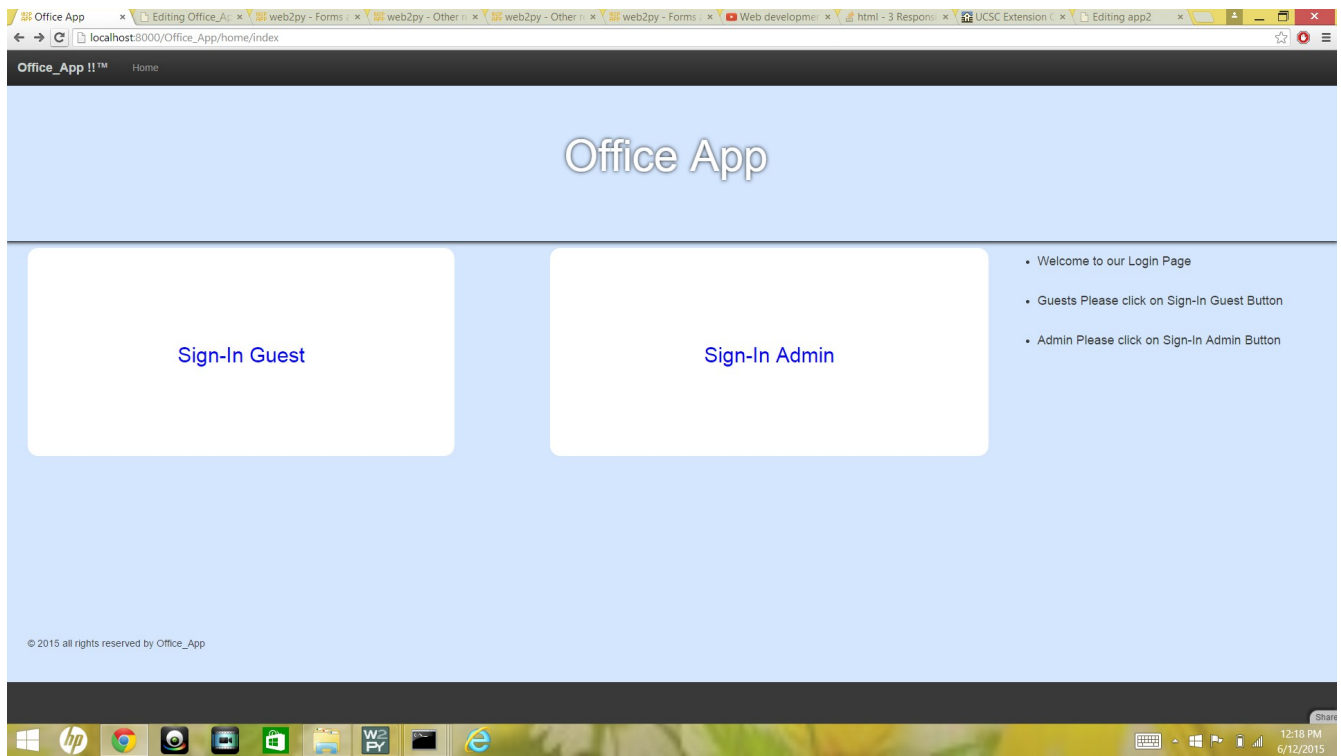
It has all the html files

C.Description of Python program:

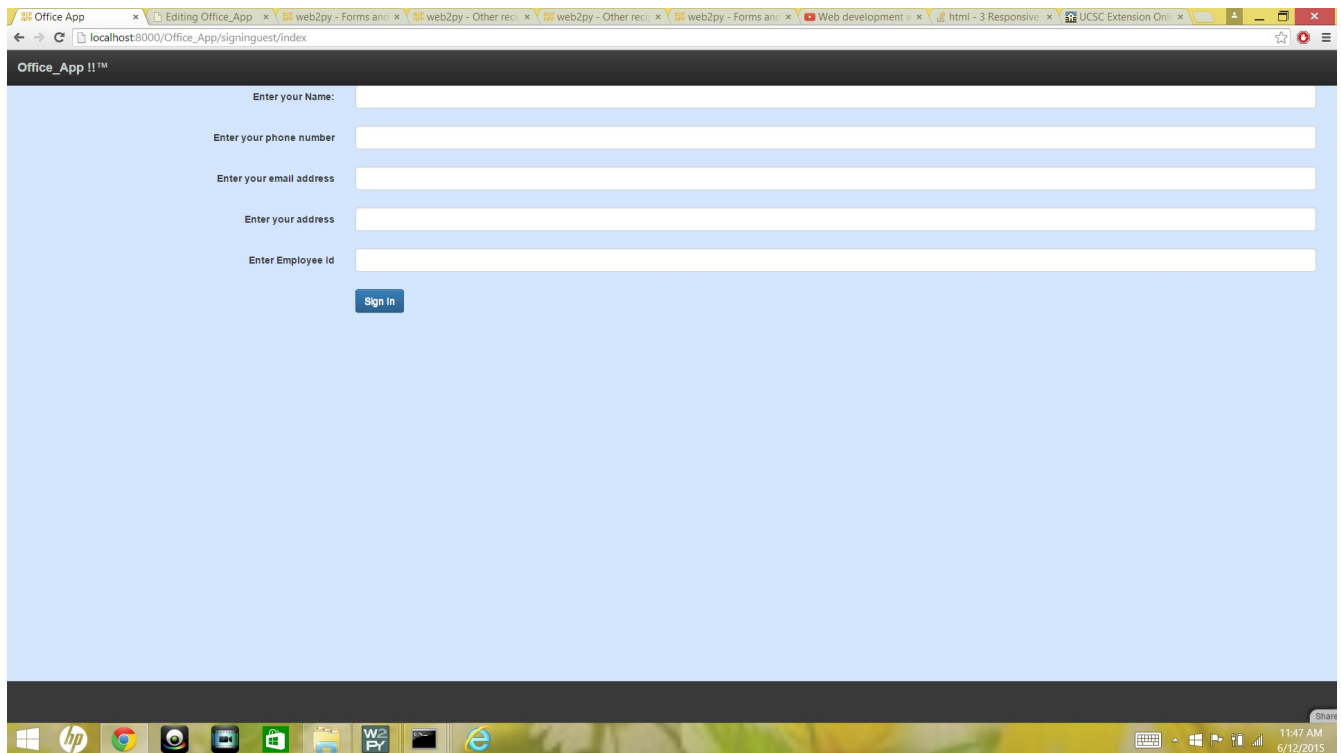
All the python code has written in .py files and comments describes the code

D.Screenshots and Output:

Homepage



2. SigninGuest page



3. Show errors on invalid data entry

Office_App !!™

Enter your Name: Kajal Bhundia

Enter your phone number: 123adb
invalid phone number

Enter your email address: abd123
Enter a valid email address

Enter your address: mountain view

Enter Employee id: 02

Sign In

Quick Sign up form has errors x

4. Entry into database:

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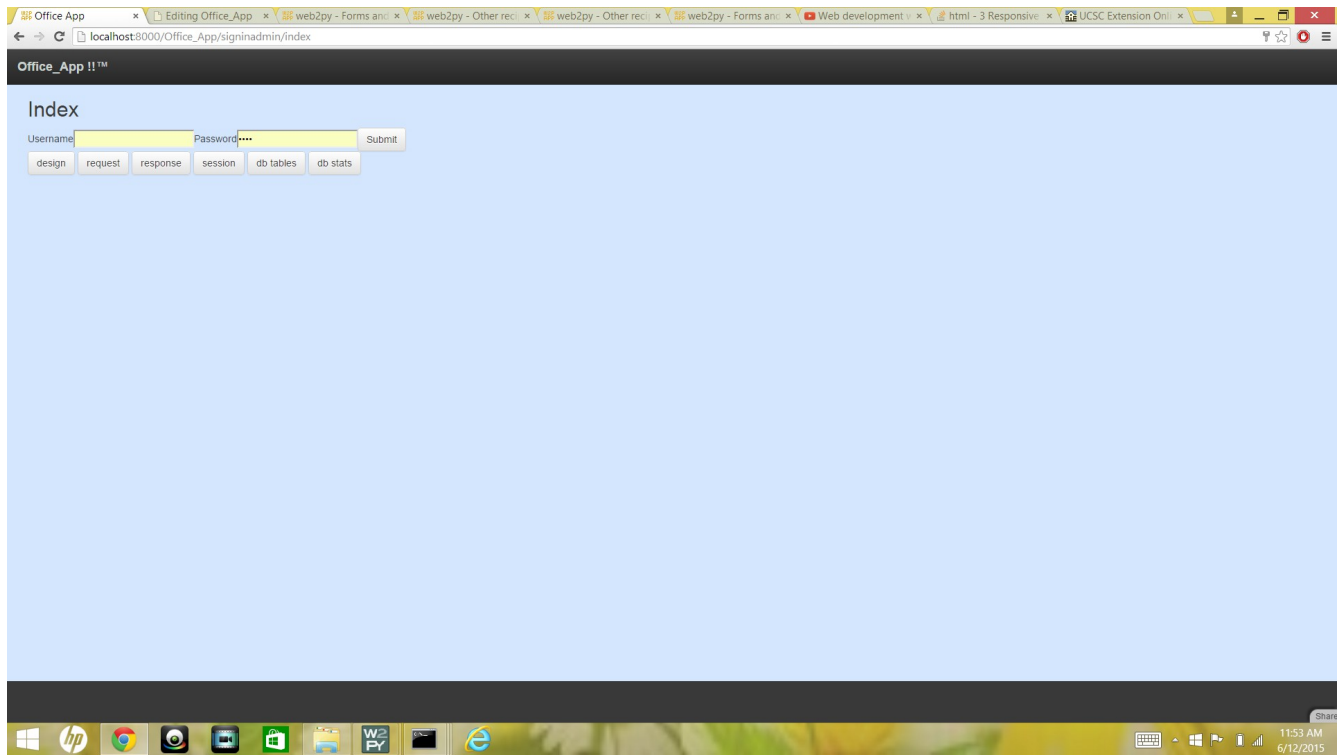
Command Prompt - mysql -uroot -root
mysql> select * from visit_log;
+----+-----+-----+-----+-----+-----+-----+
| visitor_id | name      | phone_number | email      | date      | address      | emp_id |
+----+-----+-----+-----+-----+-----+-----+
| 2 | Isha      | 6507405126 | isha.j.31086@gmail.c | 2015-06-07 16:48:28 | 3131 homestead rd,apt 12 h | 11 |
| 3 | ching     | 6501234562 | ching@yahoo.com | 2015-06-07 17:42:30 | scott blvd,santa clara | 11 |
| 4 | joe       | 7501234567 | joe@yahoo.com | 2015-06-07 17:43:42 | monroe blvd,santa clara | 10 |
| 8 | Ritu Oberoi | 6507401234 | ritu@yahoo.com | 2015-06-12 11:32:38 | 1085 Foster city,Blud | 11 |
| 9 | Jai Sharma | 6507047021 | jaisharma@gmail.com | 2015-06-12 11:48:29 | 3131 homestead rd,Santa Clara | 14 |
| 10 | Alex      | 7456501234 | Alex@yahoo.com | 2015-06-12 11:50:07 | 123 Foster City Blvd, Foster City | 5 |
+----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select * from visit_log;
+----+-----+-----+-----+-----+-----+-----+
| visitor_id | name      | phone_number | email      | date      | address      | emp_id |
+----+-----+-----+-----+-----+-----+-----+
| 2 | Isha      | 6507405126 | isha.j.31086@gmail.c | 2015-06-07 16:48:28 | 3131 homestead rd,apt 12 h | 11 |
| 3 | ching     | 6501234562 | ching@yahoo.com | 2015-06-07 17:42:30 | scott blvd,santa clara | 11 |
| 4 | joe       | 7501234567 | joe@yahoo.com | 2015-06-07 17:43:42 | monroe blvd,santa clara | 10 |
| 8 | Ritu Oberoi | 6507401234 | ritu@yahoo.com | 2015-06-12 11:32:38 | 1085 Foster city,Blud | 11 |
| 9 | Jai Sharma | 6507047021 | jaisharma@gmail.com | 2015-06-12 11:48:29 | 3131 homestead rd,Santa Clara | 14 |
| 10 | Alex      | 7456501234 | Alex@yahoo.com | 2015-06-12 11:50:07 | 123 Foster City Blvd, Foster City | 5 |
| 11 | Lauren    | 6501427561 | lauren101@gmail.com | 2015-06-12 11:52:44 | scott blvd,santa clara | 7 |
| 12 | Kajal Bhundia | 6501234456 | kajal@yahoo.com | 2015-06-12 12:01:08 | mountain view | 2 |
+----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

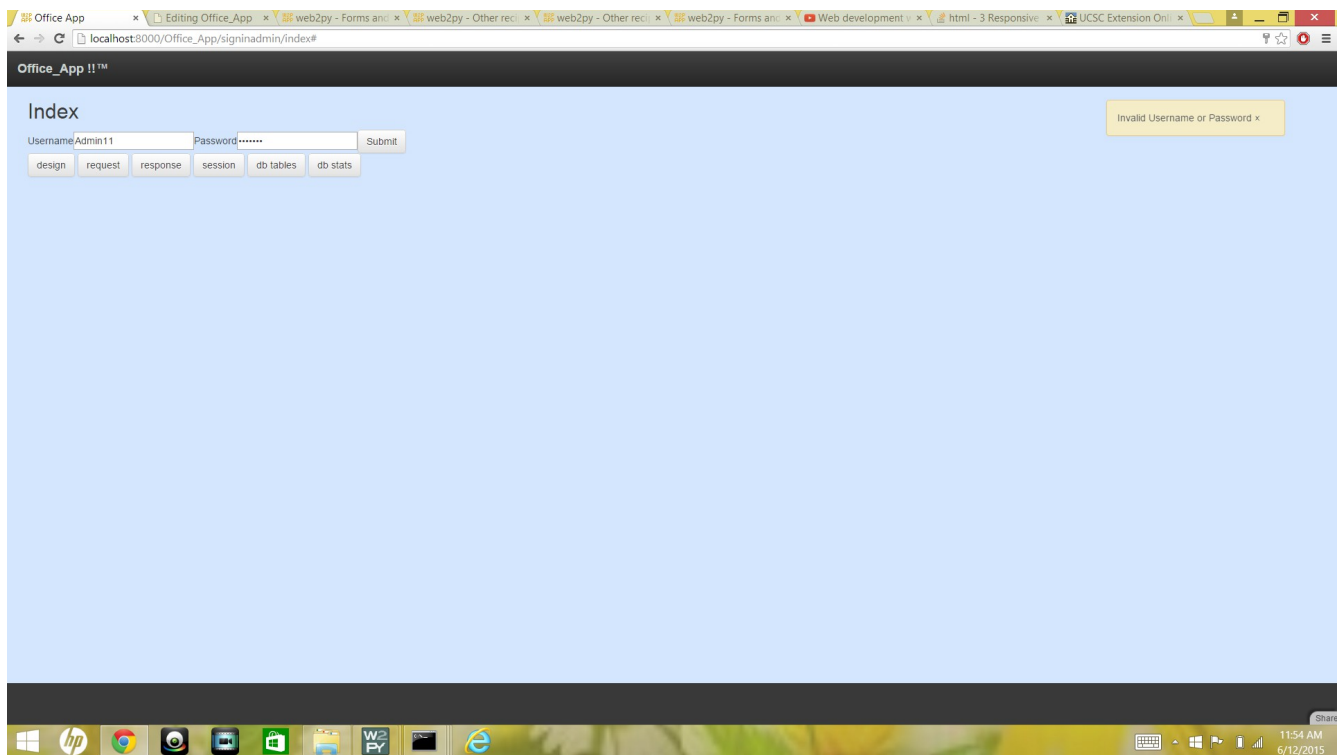
mysql>

```

5. SigninAdmin page



6. Invalid username and password



7.Admin page:

The screenshot shows the Admin page of the Office_App. At the top, there's a search bar with a 'Search' button and a 'Clear' button. Below the search bar, there are filters for 'From Date' and 'To Date', and buttons for 'Submit' and 'Logout'. The main content area displays a table with 7 records. The table has columns for Visitor Id, Name, Phone_number, Address, Date, and Email. Each record has a 'View' button next to it. Below the table, there are export options: CSV, CSV (hidden cols), HTML, JSON, TSV (Spreadsheets), TSV (Spreadsheets, hidden cols), and XML. There are also buttons for 'design', 'request', 'response', 'session', 'db tables', and 'db stats'.

Visitor Id	Name	Phone_number	Address	Date	Email
2	Isha	6507405126	3131 homestead rd, apt 12 h	2015-06-07 16:48:28	isha.j.31086@gmail.c
3	ching	6501234562	scott blvd, santa clara	2015-06-07 17:42:30	ching@yahoo.com
4	joe	7501234567	monroe blvd, santa clara	2015-06-07 17:43:42	joe@yahoo.com
8	Ritu Oberoi	6507401234	1085 Foster city, Blvd	2015-06-12 11:32:38	rtu@yahoo.com
9	Jai Sharma	6507047021	3131 homestead rd, Santa Clara	2015-06-12 11:48:29	jaisharma@gmail.com
10	Alex	7456501234	123 Foster City Blvd, Foster City	2015-06-12 11:50:07	Alex@yahoo.com
11	Lauren	6501427561	scott blvd, santa clara	2015-06-12 11:52:44	lauren101@gmail.com

8. Search by name:

The screenshot shows the Admin page of the Office_App with the search bar containing the text 'ching'. The search results show 1 record. The table has columns for Visitor Id, Name, Phone_number, Address, Date, Email, and Employee_id. The record for 'ching' is displayed. Below the table, there are export options: CSV, CSV (hidden cols), HTML, JSON, TSV (Spreadsheets), TSV (Spreadsheets, hidden cols), and XML. There are also buttons for 'design', 'request', 'response', 'session', 'db tables', and 'db stats'. A message box at the top right says 'To Date should be greater than From Date x'.

Visitor Id	Name	Phone_number	Address	Date	Email	Employee_id
3	ching	6501234562	scott blvd, santa clara	2015-06-07 17:42:30	ching@yahoo.com	11

9.Filter list by date

The screenshot shows the 'Admin' interface of the 'Office_App !!™'. At the top, there is a search bar containing 'kajal Bhundia', a 'Search' button, a 'Clear' button, and date filters: 'From Date' set to '2015-06-12 11:52:40' and 'To Date' set to '2015-06-12 12:04:56'. There are 'Submit' and 'Logout' buttons. Below the search bar, a table displays visitor information. The table has columns: Visitor Id, Name, Phone_number, Address, Date, Email, and Employee_id. Two rows are visible: Visitor 11 (Lauren) and Visitor 12 (Kajal Bhundia). Each row has a 'View' button. Below the table, there is an 'Export' section with buttons for CSV, CSV (hidden cols), HTML, JSON, TSV (Spreadsheets), TSV (Spreadsheets, hidden cols), and XML. At the bottom, there are buttons for 'design', 'request', 'response', 'session', 'db tables', and 'db stats'. The browser's address bar shows 'localhost:8000/Office_App/signinadmin/Admin?keywords=kajal+Bhundia#'. The Windows taskbar at the bottom shows the time as 12:05 PM on 6/12/2015.

Visitor Id	Name	Phone_number	Address	Date	Email	Employee_id
11	Lauren	6501427561	scott blvd.santa clara	2015-06-12 11:52:44	lauren101@gmail.com	7
12	Kajal Bhundia	6501234456	mountain view	2015-06-12 12:01:08	kajal@yahoo.com	2

10 Welcome page comes after signin guest

The screenshot shows the 'Index' page of the 'Office_App !!™'. It displays a welcome message: 'welcome Lauren' and 'Please wait in the lobby'. Below the message, there are buttons for 'design', 'request', 'response', 'session', 'db tables', and 'db stats'. The browser's address bar shows 'localhost:8000/Office_App/welcome/index?name=Lauren#'. The Windows taskbar at the bottom shows the time as 11:52 AM on 6/12/2015.

11 Export file as csv format

rows (6).csv - OpenOffice Calc

visit_log_visitor_id	visit_log_name	visit_log_phone_number	visit_log_address	visit_log_date	visit_log_email	visit_log_emp_id
2	Isha	6507405126	3131 homestead rd apt 12 h	2015-06-07 16:48:28	isha.j.31086@gmail.c	11
3	ching	6501234562	scott blvd santa clara	2015-06-07 17:42:30	ching@yahoo.com	10
4	joe	7501234567	monroe blvd santa clara	2015-06-07 17:43:42	joe@yahoo.com	11
5	Ritu Oberoi	6507401234	1085 Foster city Blvd	2015-06-12 11:32:38	ritu@yahoo.com	14
6	Jai Sharma	6507047021	3131 homestead rd Santa Clara	2015-06-12 11:48:29	jaisharma@gmail.com	5
7	Alex	7456501234	123 Foster City Blvd, Foster City	2015-06-12 11:50:07	Alex@yahoo.com	7
8	Lauren	6501427561	scott blvd santa clara	2015-06-12 11:52:44	lauren101@gmail.com	2
9	Kajal Bhundia	6501234456	mountain view	2015-06-12 12:01:08	kajal@yahoo.com	

12. Tsv format

rows (4).csv - OpenOffice Calc

visit_log_visitor_id	visit_log_name	visit_log_phone_number	visit_log_address	visit_log_date	visit_log_email	visit_log_emp_id
2	Isha	6507405126	3131 homestead rd	2015-06-07 16:48:28	isha.j.31086@gmail.c	11
3	ching	6501234562	scott blvd	2015-06-07 17:42:30	ching@yahoo.com	10
4	joe	7501234567	monroe blvd	2015-06-12 11:32:38	joe@yahoo.com	11
5	Ritu Oberoi	6507401234	1085 Foster city	2015-06-12 11:48:29	ritu@yahoo.com	14
6	Jai Sharma	6507047021	3131 homestead rd	2015-06-12 11:50:07	jaisharma@gmail.com	5
7	Alex	7456501234	123 Foster City Blvd	2015-06-12 11:52:44	Alex@yahoo.com	7
8	Lauren	6501427561	scott blvd	2015-06-12 11:52:44	lauren101@gmail.com	2
9	Kajal Bhundia	6501234456	mountain view	2015-06-12 12:01:08	kajal@yahoo.com	