Py II Program 5

Hitting the bottle.py with sqlite3.

This program is about very basic web site navigation as well as having the browser and web server interact with a simple database. Before doing anything else, please view this video overview of how things should work. It contains valuable code info as well.

Program 5 overview

Program 5

You don't have to use any of the code shown; you are welcome to write your own code as you please.

The database is named *travel_expenses.db*, and there are two tables: *members* and *trips*. Although you can add trips to the trips table, you must leave the other data and its structure intact. That is, your code must work with my copy of the database.

You will need this database given with the assignment: travel_expenses.zip

Here is a look at the members table and the first trips given in the trips table. trip_id is an auto-incrementing integer, miles is an integer, gallons is a float. username, data, and destination are of type text.

Table: members

	username	role	password
	Filter	Filter	Filter
1	jsmith	tech	password
2	agarcia	tech	superwoman
3	dwilson	tech	12345

Table: trips

	trip_id	username	date	destination	miles	gallons
	Filter	Filter	Filter	Filter	Filter	Filter
1	1	jsmith	1/2/2014	chicago	663	20.7
2	2	agarcia	1/3/2014	indianapolis	226	8.7
3	3	jsmith	1/4/2014	nashville	409	16.4
4	4	dwilson	1/5/2014	indianapolis	243	8.4
5	5	agarcia	1/6/2014	st. louis	560	18.1
6	6	agarcia	1/7/2014	cincinnati	237	6.6
7	7	jsmith	1/8/2014	chicago	681	17.9

Here's an example template. Remember templates have a .tpl file extension. You do not have to use the same route names that I have used.

```
<html>
<head><title>Data Entry Page</title></head>
<body>

Please spell destinations lower case:<br><br>
<form action= '/enterTrip' method = 'POST'>
  <input type='text' name='user'> Username <br><br>
  <input type='text' name='date'> Date <br><br>
  <input type='text' name='dest'> Destination <br><br>
  <input type='text' name='miles'> Miles <br><br>
  <input type='text' name='gallons'> Gallons Used <br><br>
  <input type = "submit">
</form>
</body></html>
```

For full credit.

- use proper templates and put them in the views folder.
- you should make sure both the username and password the user enters match a record in the members table upon login. Otherwise, you should display a message that the login failed.
- if a user enters a trip, all values should be properly inserted into the trips table.
- you should display only the trips taken by a given user. No user should see the other user's trips.
- our html is not pretty, but information displayed should be readable.

Here are some things you don't have to do.

- we trust our employees to enter a valid employee id and data. you don't have to validate the data for this assignment
- since this is our first Bottle program you do not have to maintain state or use cookies for this program

Grading will follow this approach.

- 100% program runs perfectly with all required items
- 90% program meets all requirement but doesn't always produce the correct output
- 80% program runs without errors, but is missing some requirement.
- 70% program had a good start, most but not all of the code was correct, had one or more fatal errors.

- 40-60% or below. Not very close, many parts missing, would not run, probably a late start.
- 0% no submission or code was not the student's work.

How To Submit Your Program

You know how to submit your programs.

If you have questions let me know: mark.prather@kctcs.edu.