Greeting Professor,

1. I made a **login file** with details of my username, password, database and root which will be required when, we need to connect to the database. The link for which is:

<http://ec2-184-73-56-236.compute-1.amazonaws.com/Project2/final/anilogin.php>

2. Then I **created a database** with the name “projectdb” and **created a table named “Form”** in which we have columns - id (primary key – auto increment), first name, last name, email, website, currency, phone, pricepershare, numberofshare, state and promotional. The link for creating it is:

<http://ec2-184-73-56-236.compute-1.amazonaws.com/Project2/final/createDB_TBL.php>

3. I made a form comprising of **php validations** having the fields – First Name (Mandatory), Last Name (Mandatory), Phone Number (Mandatory), Email (Mandatory), Website (Mandatory), Transaction Currency (NOT Mandatory), Price per share (Mandatory), Number of Share (Mandatory), Promotional Offers (NOT Mandatory) and State (Not Mandatory).

Once the form was created I performed PHP validations (line 23-110, file – add\_validate.php) with following rules:

**First Name**: It is a mandatory field. It **cannot be left blank**. It can contain **only space and alphabets** (upper case or lower case) without any numbers.

Last Name: It is a mandatory field. It **cannot be left blank**. It can contain **only space and alphabets** (upper case or lower case) without any numbers.

Phone Number: It is a mandatory field. It **cannot be left blank**. It **can contain only 10 digits**, no more than 10.

Email: It is a mandatory field. It cannot be left blank. It can contain **only email ids in original format**.

Website: It is a mandatory field. It cannot be left blank. It can contain **only websites in original format**.

Transaction Currency: It is an **optional field**, depending upon the user if they want to provide it or not. It is not a mandatory field. It is a **drop-down list** in which user can select the currency in which they want to trade.

Price per share: It is a **mandatory field**. It cannot be left blank. It can contain **only digits including decimals in XX.XXXX format**, but the price i.e. the value to be entered in this field can only be less than 100.

Number of share: It is a mandatory field. It **cannot be left blank**. It can **contain only digits (no decimals)**.

Promotional Offers: It is an **optional field**, depending upon the user if they want to provide it or not. It is not a mandatory field.

State: It is an optional field, depending upon the user if they want to provide it or not. It is not a mandatory field. It is a drop-down list in which user can select the state in which they reside.

If there is any error it will provide **error message like “invalid url” or “enter a valid phone number (10 digits only)”**

After the validation, if there are no errors i.e. **all the validation rules are fulfilled only then the data will be inserted** in the table “form”. Until, the data is been validated it will not be send in the table (database). The link for the form to validate and add the values to the data base is: <http://ec2-184-73-56-236.compute-1.amazonaws.com/Project2/final/add_validate.php>

4. To **retrieve the data** in a table “form” for the user the link is <http://ec2-184-73-56-236.compute-1.amazonaws.com/Project2/final/retrieve_data.php>.

After connecting to the instance, by running the query in php page I was able to print the data in the table we created earlier i.e “form”. I made a for loop for displaying the data inserted by the user in form in a table. If any changes are done to the table by using delete or update page it will be reflected in this page after refreshing.

5. To **delete the data** in a table “form” for the user the link is:

http://ec2-184-73-56-236.compute-1.amazonaws.com/Project2/final/delete\_data.php

After connecting to the instance, by running the query in php page I could retrieve the data and then by providing a delete record button in the script user has the option to delete any record as per their requirement, that record will be deleted from the database.

6. To update the data in a table “form” for the user the link is:

<http://ec2-184-73-56-236.compute-1.amazonaws.com/Project2/final/update_data.php>

**followed by ?id=XX i.e the user needs to put the id replacing XX e.g for a record with id number 23 user has to add ?id=23 in the link which will be** http://ec2-184-73-56-236.compute-1.amazonaws.com/Project2/final/update\_data.php**?id=23**

when user enters the link followed by ?id=XX (XX being the id number of the record, which user can get through retrieve\_data.php), user will get a pre-filled form with all the details for that id number in which user can edit it and then submit and the values will be changed in table and then reflected in the database too

For semantic all the designing was done in separate CSS styling sheet and no excessive php script was used.

The webpage for adding the values through the form, updating the values and the webpage on which the results are displayed **are responsive in design** with a top, bottom and side navigation.

The **navigation for all the pages (add, retrieve, delete and update)** are provided for better user experience on the **top navigation**.

Thanks

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