Assignment Task
(Home Dream Form Link With MYSQL)

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Instructor signature ------------	Date 30-09-2022

Objective:

- To make familiar students with mysql database
- How data can be transferred from Web applications
- How forms behave in Web applications
- Hoe Frontend and beckend of web applications work together

Procedure:

Environment Used :   Visual Studio Code(2022)
Frontend Languages: HTML, CSS, Bootstrap
Beckend Language: Python(Django-web framework)

Code:

Step 1:
Link MYSQL DataBase:

```python
# Database
# https://docs.djangoproject.com/en/4.1/ref/settings/#databases

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.mysql',
        'NAME': 'dream_home',
        'USER': 'root',
        'PASSWORD': 'ahsan0724',
        'PORT': 3306,
        'HOST': '127.0.0.1',
    }
}
```

Step 2:

Make Dream_Home Model:

```python
class Home_Dream(models.Model):
    First_Name=models.CharField(max_length=100,null=True)
    Last_Name=models.CharField(max_length=100,null=True)
    Phone_Number=models.CharField(max_length=100,null=True)
    email=models.CharField(max_length=90,null=True)
    Permanent_Address=models.CharField(max_length=100,null=True)
    Mailing_Address=models.CharField(max_length=100,null=True)
    Postal_code=models.CharField(max_length=5,null=True)
    City=models.CharField(max_length=100,null=True)
    province=models.ForeignKey(Province,on_delete=models.CASCADE)
    Job_type=models.ForeignKey(Job_Type,on_delete=models.CASCADE)
    Gender=models.ForeignKey(Gender,on_delete=models.CASCADE)
    Married=models.ForeignKey(Married_opt,on_delete=models.CASCADE)
    Education=models.ForeignKey(Education_level,on_delete=models.CASCADE)
    Property=models.ForeignKey(Property,on_delete=models.CASCADE)


    def __str__(self):
        return self.First_Name + ' ' + self.email + ' ' + ' ' + self.City
```

Step 3:

Create Template Name"home.html"

```html
{% load static %}
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>LA0724 Dream Home</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"
crossorigin="anonymous">

</head>
```

```html
<body>
  <div>
    <img src="{% static 'Dream Home-modified.png' %}" class="rounded mx-auto d-
block w-70" alt="...">
</div>

<div class="card shadow m-5">
    <div class="card-body">
        <h5 class="p-2 text-danger " style="border-bottom : 2x solid
orange">Submit Your Details:</h5>

    </div>
    <div class="container my-4">
    <form method="post" action="" class="form-group">
        {% csrf_token %}
        <table>


        <div class="form-group my-3">
            <label for="id_First_Name">Enter Your First Name:</label>
            <input type="text" name="First_Name" class="form-control
"  maxlength="100" required id="id_First_Name">
        </div>
        <div class="form-group my-3">
            <label for="id_Last_Name">Enter Your Last Name:</label>
            <input type="text" name="Last_Name" class="form-control
"  maxlength="100" required id="id_First_Name">
        </div>
        <div class="form-group my-3">
            <label for="id_email">Email(xyz@gmail.com):</label>
            <input type="Email" name="email" class="form-control is-
invalid"  maxlength="120" required id="id_email">
    </div>
    <div class="form-group my-3">
        <label for="id_Phone_Number">Enter Your Phone Number:</label>
    <input type="text" name="Phone_Number" class="form-control "  maxlength="50"
required id="id_Phone_Number">
    </div>
    <div class="form-group my-3">
        <label for="id_Permanent_Address">Permanent_Address:</label>
        <input type="text" name="Permanent_Address" class="form-
control"  maxlength="120" required id="id_Permanent_Address">
    </div>
    <div class="form-group my-3">
        <label for="id_Mailing_Address">Mailing_Address:</label>
```

```html
            <input type="text" name="Mailing_Address" class="form-
control"  maxlength="120" required id="id_Mailing_Address">
    </div>
    <div class="form-group my-3">
        <label for="id_City">City:</label>
        <input type="text" name="City" class="form-control"  maxlength="120"
required id="id_City">
    </div>
    <div class="form-group my-3">
        <label for="id_Postal_code">Postal_code:</label>
        <input type="text" name="Postal_code" class="form-
control"  maxlength="120" required id="Postal_code">
    </div>
    <div class="d-flex">
    <div class="form-group px-2 my-3 d-inline-block">
        <p>Province:</p>{{form.province}}
    </div>
    <div class="form-group px-3 my-3 d-inline-block">
        <p>Job_type:</p>{{form.Job_type}}
    </div>
    <div class="form-group px-4 my-3  d-inline-block">
        <p>Gender:</p>{{form.Gender}}
    </div>

    <div class="form-group px-5 my-3 d-inline-block">
        <p>Married_Status:</p>{{form.Married}}
    </div>
    <div class="form-group px-6 my-3 d-inline-block">
        <p>Education_Level:</p>{{form.Education}}
    </div>
    <div class="form-group px-5 my-3 d-inline-block">
        <p>Property_Status:</p>  {{form.Property}}
    </div>

</div>
<div class="col-md-12 text-center text-danger">
    <button type="submit" class="btn btn-outline-danger my-4 text-
center">Submit</button><br>

    </div>
        </table>
      </form>
</body>
</html>
```

Step 4:

Checkout Frontend View:

Step 5:

Checkout Data transfer in database or not:

Step 6:
Data Shows in MYSQL Databse:

Table: form_home_dream

Columns:

id	bigint AI PK
First_Name	varchar(100)
Last_Name	varchar(100)
Phone_Number	varchar(100)
Permanent_Address	varchar(100)
Mailing_Address	varchar(100)
Postal_code	varchar(5)
City	varchar(100)
Education_id	bigint
Gender_id	bigint
Job_type_id	bigint
Married_id	bigint
Property_id	bigint
province_id	bigint
email	varchar(90)