

models.py file code:-

```
//myapp/models.py
from django.db import models

# Create your models here.
class Member(models.Model):
    firstname = models.CharField(max_length=50)
    lastname = models.CharField(max_length=50)

    class Meta:
        db_table = "tbl_member"
```

Make Migrations

Run the commands below to make migrations:

```
python manage.py makemigrations
```

```
python manage.py migrate
```

Creating View

myapp/views.py

```
//myapp/views.py
from django.shortcuts import render, redirect
from myapp.models import Member

# Create your views here.
def index(request):
    return render(request, 'index.html')

def create(request):
    member = Member(firstname=request.POST['firstname'],
lastname=request.POST['lastname'])
    member.save()
    return redirect('/')

def read(request):
    members = Member.objects.all()
    context = {'members': members}
    return render(request, 'result.html', context)

def edit(request, id):
    members = Member.objects.get(id=id)
    context = {'member': members}
    return render(request, 'edit.html', context)

def update(request, id):
    member = Member.objects.get(id=id)
    member.firstname = request.POST['firstname']
    member.lastname = request.POST['lastname']
    member.save()
    return redirect('/')

def delete(request, id):
    member = Member.objects.get(id=id)
    member.delete()
    return redirect('/')
```

Urls.py file code:-

```
from django.contrib import admin
from django.urls import path
from myapp import views

urlpatterns = [
    path('admin/', admin.site.urls),
    path('', views.index, name='index'),
    path('create/', views.create, name='create'),
    path('read/', views.read, name='read'),
    path('edit/<id>', views.edit, name='edit'),
    path('edit/update/<id>', views.update, name='update'),
    path('delete/<id>', views.delete, name='delete'),
]
```

myapp/templates/index.html

```
//myapp/templates/index.html
{% extends 'base.html' %}
{% block body %}
<form class="form-inline">
    {% csrf_token %}
    <div class="mb-3">
        <label>Firstname</label>
        <input type="text" id="firstname" class="form-control"
style="width:30%;" required="required"/>
    </div>
    <div class="mb-3">
        <label>Lastname</label>
        <input type="text" id="lastname" class="form-control"
style="width:30%;" required="required"/>
    </div>
    <div class="mb-3">
        <button type="button" id="create" class="btn btn-
primary">Create</button>
    </div>
</form>
<br />
<div id="result"></div>
{% endblock %}
```

myapp/templates/base.html

```
//myapp/templates/base.html
```

```

<!DOCTYPE html>
<html lang="en">
<head>
{% load static %}
<meta charset="UTF-8" name="viewport" content="width=device-width, initial-
scale=1"/>
<link rel="stylesheet" type="text/css"
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css
"/>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.mi
n.js" integrity="sha384-
MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"
crossorigin="anonymous"></script>
</head>
<body>
  <div class="container">
    <header>
      <h1>Python Django Mysql CRUD (Create, Read, Update and Delete)
with JQuery Ajax</h1>
    </header>
    <hr>
    <main>
      {% block body %}
      {% endblock %}
    </main>
    <hr>
  </div>
<script
src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.min.js"></script>
<script src="{% static 'js/script.js' %}"></script>
</body>
</html>

```

myapp/templates/edit.html

```

//myapp/templates/edit.html
{% extends 'base.html' %}
{% block body %}
  <form>
    {% csrf_token %}
    <input type="hidden" id="member_id" value="{{ member.id }}" />
    <div class="mb-3">
      <label>Firstname</label>
      <input type="text" id="firstname" value="{{ member.firstname }}"
class="form-control" required="required" />
    </div>
    <div class="mb-3">
      <label>Lastname</label>
      <input type="text" id="lastname" value="{{ member.lastname }}"
class="form-control" required="required" />
    </div>
    <div class="mb-3">

```

```
        <button type="button" id="update" class="btn btn-
warning">Update</button>
    </div>
</form>
{% endblock %}
```

myapp/templates/result.html

```
//myapp/templates/result.html
<table class="table table-bordered">
  <thead class="alert-success">
    <tr>
      <th>Firstname</th>
      <th>Lastname</th>
      <th>Action</th>
    </tr>
  </thead>
  <tbody>
    {% for member in members %}
    <tr>
      <td>{{ member.firstname }}</td>
      <td>{{ member.lastname }}</td>
      <td><center>
        <a class="btn btn-warning edit" name="{{ member.id
}}">Edit</a>
        <a class="btn btn-danger delete" name="{{ member.id
}}">Delete</a></center>
      </td>
    </tr>
    {% endfor %}
  </tbody>
</table>
```

myapp/static/js/script.js

```

//myapp/static/js/script.js
$(document).ready(function(){
    if($('#result') != null){
        Read();
    }
    $('#create').on('click', function(){
        $firstname = $('#firstname').val();
        $lastname = $('#lastname').val();

        if($firstname == "" || $lastname == ""){
            alert("Please complete the required field");
        }else{
            $.ajax({
                url: 'create/',
                type: 'POST',
                data: {
                    firstname: $firstname,
                    lastname: $lastname,
                    csrfmiddlewaretoken:
                    $('#input[name=csrfmiddlewaretoken]').val()
                },
                success: function(){
                    Read();
                    $('#firstname').val('');
                    $('#lastname').val('');
                    alert("New Member Successfully Added");
                }
            });
        }
    });

    $(document).on('click', '.edit', function(){
        $id = $(this).attr('name');
        window.location = "edit/" + $id;
    });

    $('#update').on('click', function(){
        $firstname = $('#firstname').val();
        $lastname = $('#lastname').val();

        if($firstname == "" || $lastname == ""){
            alert("Please complete the required field");
        }else{
            $id = $('#member_id').val();
            $.ajax({
                url: 'update/' + $id,
                type: 'POST',
                data: {
                    firstname: $firstname,
                    lastname: $lastname,
                    csrfmiddlewaretoken:
                    $('#input[name=csrfmiddlewaretoken]').val()
                },
                success: function(){
                    window.location = '/';
                    alert('Updated!');
                }
            });
        }
    });

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        }
    });
}

});

$(document).on('click', '.delete', function(){
    $id = $(this).attr('name');
    $.ajax({
        url: 'delete/' + $id,
        type: 'POST',
        data: {
            csrfmiddlewaretoken:
$('input[name=csrfmiddlewaretoken]').val()
        },
        success: function(){
            Read();
            alert("Deleted!");
        }
    });
});

});

function Read(){
    $.ajax({
        url: 'read/',
        type: 'POST',
        async: false,
        data:{
            res: 1,
            csrfmiddlewaretoken: $('input[name=csrfmiddlewaretoken]').val()
        },
        success: function(response){
            $('#result').html(response);
        }
    });
}
}

```