**Python Django Mysql CRUD (Create, Read, Update and Delete) with Jquery Ajax**  
  
Register App myapp and  
Connect to MySQL Database  
  
**devproject/settings.py**

[?](https://tutorial101.blogspot.com/2022/05/python-django-mysql-crud-create-read.html)

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| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21 | //devproject/settings.py  INSTALLED\_APPS = [      'django.contrib.admin',      'django.contrib.auth',      'django.contrib.contenttypes',      'django.contrib.sessions',      'django.contrib.messages',      'django.contrib.staticfiles',      'myapp', #add myapp  ]    DATABASES = {      'default': {          'ENGINE': 'django.db.backends.mysql',          'NAME': 'django',          'USER': 'root',          'PASSWORD': '',          'HOST': 'localhost',          'PORT': '3306'      }  } |

**Create Model**  
**myapp/models.py**

[?](https://tutorial101.blogspot.com/2022/05/python-django-mysql-crud-create-read.html)

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| 1  2  3  4  5  6  7  8  9  10 | //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  
C:\django\devproject>python manage.py makemigrations  
C:\django\devproject>python manage.py migrate  
  
**Creating View**  
**myapp/views.py**

[?](https://tutorial101.blogspot.com/2022/05/python-django-mysql-crud-create-read.html)

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| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36 | //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('/') |

Template  
  
Bootstrap 5  
https://getbootstrap.com/docs/5.0/getting-started/introduction/  
https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css  
https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.min.js  
  
Jquery  
https://jquery.com/download/  
CDN : jsDelivr CDN  
https://www.jsdelivr.com/package/npm/jquery  
https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.min.js  
  
**myapp/templates/index.html**

[?](https://tutorial101.blogspot.com/2022/05/python-django-mysql-crud-create-read.html)

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| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20 | //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**

[?](https://tutorial101.blogspot.com/2022/05/python-django-mysql-crud-create-read.html)

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| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25 | //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.min.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**

[?](https://tutorial101.blogspot.com/2022/05/python-django-mysql-crud-create-read.html)

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| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19 | //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**

[?](https://tutorial101.blogspot.com/2022/05/python-django-mysql-crud-create-read.html)

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| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22 | //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**

[?](https://tutorial101.blogspot.com/2022/05/python-django-mysql-crud-create-read.html)

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| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57  58  59  60  61  62  63  64  65  66  67  68  69  70  71  72  73  74  75  76  77  78  79  80  81  82  83  84  85  86  87  88  89  90  91 | //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!');                  }              });          }        });        $(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);          }      });  } |

URL  
**devproject/urls.py**

[?](https://tutorial101.blogspot.com/2022/05/python-django-mysql-crud-create-read.html)

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| 1  2  3  4  5  6  7  8  9  10  11  12  13  14 | //devproject/urls.py  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'),  ] |

**Run : C:\django\devproject>python manage.py runserver**