

CM3035 Advanced Web Development

Lesson 6

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Django forms (Add New Record)

Add New record



Add Data into Database

Name:

Hobby:

Submit

Django forms (Add New Record)

Set Url.py

```
urlpatterns = [  
    path('displayDatabase', views.displayDatabase, name='displayDatabase'),  
    path('addData/', views.addData, name='addData'),  
    path('addData/addrecord/', views.addrecord, name='addrecord'),  
]
```

Django forms (Add New Record)

New record form

```
53 def addData(request):  
54     template = loader.get_template('addData.html')  
55     return HttpResponse(template.render({}, request))  
56
```

Apps OEM USB Drivers... Good book for be... 127.0.0.1:8000/pay/

Add Data into Database

Name:

Hobby:

Submit

```
views.py  
1 <!DOCTYPE html>  
2 <html>  
3 <body>  
4  
5     <h1>Add Data into Database</h1>  
6  
7     <form action="addrecord/" method="post">  
8         {% csrf_token %}  
9         Name:<br>  
10        <input name="name">  
11        <br><br>  
12        Hobby:<br>  
13        <input name="hobby">  
14        <br><br>  
15        <input type="submit" value="Submit">  
16    </form>  
17  
18 </body>  
19 </html>  
20
```

Django forms (Add New Record)

Submit form to database via 'post' method

```
6 |
7 def addrecord(request):
8     x = request.POST['name']
9     y = request.POST['hobby']
10    insertData = L3app(name=x, hobby=y)
11    insertData.save()
12    return HttpResponseRedirect(reverse('displayDatabase'))
13
```

Django forms (Add New Record)

Display the Inserted Records

```
displayFullData.html      views.py
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5     <h1>Display Database</h1>
6
7     <table border="1">
8         {% for x in allData %}
9         <tr>
10             <td>{{ x.id }}</td>
11             <td>{{ x.name }}</td>
12             <td>{{ x.hobby }}</td>
13         </tr>
14         {% endfor %}
15     </table>
16
17     <p>
18     <a href="deleteData/">Delete Friends</a>
19     </p>
20
21     <p>
22     <a href="updateData/">Update Friends details</a>
23     </p>
24
25 </body>
26 </html>
```

```
5 def displayDatabase(request):
6     allData = L3app.objects.all().values()
7     template = loader.get_template('displayFullData.html')
8     context = {
9         'allData': allData,
10    }
11    return HttpResponse(template.render(context, request))
12
```

Django forms (Add New Record)

Display the Inserted Records

Display Database

1	john	tennis
31	Sam	fishing
35	Tom	hiking
36	Jane	dancing
37	Emil	swimming
38	Mary	hiking
39	Jerry	dancing
40	Tom	swimming
41	Anorld	Gym
42	Bella	Running

[Delete Friends](#)

[Update Friends details](#)

Django forms (Delete Data)

Delete Data via html form

42	Bella	Running
----	-------	---------

[Delete Friends](#)

Django forms (Delete Data)

Delete Data via html form

Apps OEM USB Drivers... Good

Delete Data

1	john	tennis	delete
31	Sam	fishing	delete
35	Tom	hiking	delete
36	Jane	dancing	delete
37	Emil	swimming	delete
38	Mary	hiking	delete
39	Jerry	dancing	delete
40	Tom	swimming	delete
41	Anorld	Gym	delete
42	Bella	Running	delete

[Add Friends](#)

```
deleteData.html  displayFullData.html  x  views.py  uris.py
1  <!DOCTYPE html>
2  <html>
3  <body>
4
5  <h1>Delete Data</h1>
6
7  <table border="1">
8    {% for x in myFriends %}
9      <tr>
10         <td>{{ x.id }}</td>
11         <td>{{ x.name }}</td>
12         <td>{{ x.hobby }}</td>
13         <td><a href=" ../deleteRecord/{{ x.id }}">delete</a></td>
14      </tr>
15    {% endfor %}
16  </table>
17
18  <p>
19    <a href=" ../addData/">Add Friends</a>
20  </p>
21
22  </body>
23  </html>
24
```

Django forms (Delete Data)

Delete Data with function in view.py

```
31
32 def deleteRecord(request, id):
33     FriendToDelete = L3app.objects.get(id=id)
34     FriendToDelete.delete()
35     return HttpResponseRedirect(reverse('displayDatabase'))
36
```

Django forms (Delete Data)

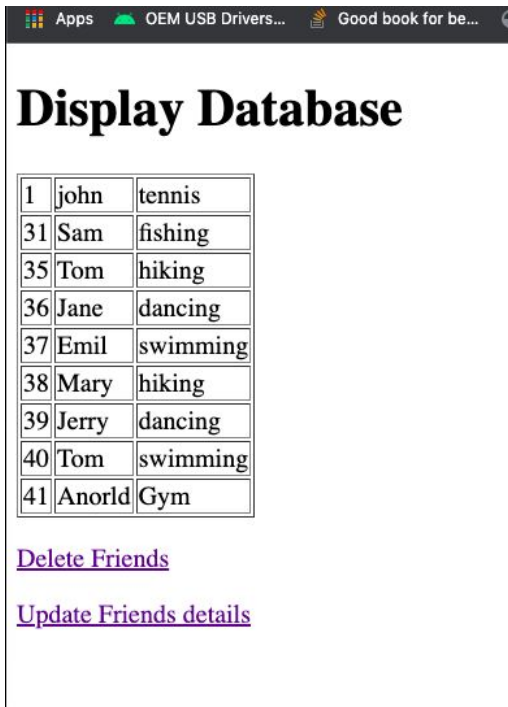
Display the Deleted Records

```
displayFullData.html      views.py
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5     <h1>Display Database</h1>
6
7     <table border="1">
8         {% for x in allData %}
9         <tr>
10             <td>{{ x.id }}</td>
11             <td>{{ x.name }}</td>
12             <td>{{ x.hobby }}</td>
13         </tr>
14         {% endfor %}
15     </table>
16
17     <p>
18     <a href="deleteData/">Delete Friends</a>
19     </p>
20
21     <p>
22     <a href="updateData/">Update Friends details</a>
23     </p>
24
25 </body>
26 </html>
```

```
5 def displayDatabase(request):
6     allData = L3app.objects.all().values()
7     template = loader.get_template('displayFullData.html')
8     context = {
9         'allData': allData,
10     }
11     return HttpResponse(template.render(context, request))
12
```

Django forms (Delete Data)

Display the Deleted Records



Display Database

1	john	tennis
31	Sam	fishing
35	Tom	hiking
36	Jane	dancing
37	Emil	swimming
38	Mary	hiking
39	Jerry	dancing
40	Tom	swimming
41	Anorld	Gym

[Delete Friends](#)

[Update Friends details](#)

Django forms (Update Data)

[Update Friends details](#)

Django forms (Update Data)

Display records from database

```
7 def updateData(request):  
8     myFriends = L3app.objects.all().values()  
9     template = loader.get_template('updateData.html')  
10    context = {  
11        'myFriends': myFriends,  
12    }  
13    return HttpResponse(template.render(context, request))
```

Django forms (Update Data)

Display records from database

localhost:8000/L3app/updateData

Update Database

1	john	tennis	delete
31	Sam	fishing	delete
35	Tom	hiking	delete
36	Jane	dancing	delete
37	Emil	swimming	delete
38	Mary	hiking	delete
39	Jerry	dancing	delete
40	Tom	swimming	delete
41	Anorld	Gym	delete

[Add Friends](#)

```
deleteData.html x updateData.html views.py
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5     <h1>Update Database</h1>
6
7     <table border="1">
8     {% for x in myFriends %}
9     <tr>
10    <td><a href="../updateRecord/{{ x.id }}">{{ x.id }}</a></td>
11    <td>{{ x.name }}</td>
12    <td>{{ x.hobby }}</td>
13    <td><a href="../deleteRecord/{{ x.id }}">delete</a>
14    </td>
15    </tr>
16    {% endfor %}
17 </table>
18
19 <p>
20 <a href="../addData/">Add Friends</a>
21 </p>
22 </body>
23 </html>
```

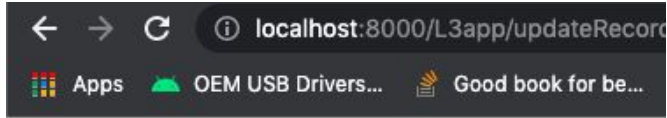
Django forms (Update Data)

Id for record to be updated sent to function

```
5 def updateRecord(request, id):  
6     myFriendid = L3app.objects.get(id=id)  
7     template = loader.get_template('updateRecord.html')  
8     context = {  
9         'myFriendid': myFriendid,  
10    }  
11    return HttpResponse(template.render(context, request))
```


Django forms (Update Data)

Object display on html form



Update Friends

First Name:

Last Name:

```
updateData.html | views.py | updateRecord.html | url
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5     <h1>Update Friends</h1>
6
7     <form action="updateRecordConfirmation/{{ myFriendid.id }}" method="post">
8         {% csrf_token %}
9         First Name:<br>
10        <input name="name" value="{{ myFriendid.name }}">
11        <br><br>
12        Last Name:<br>
13        <input name="hobby" value="{{ myFriendid.hobby }}">
14        <br><br>
15        <input type="submit" value="Submit">
16    </form>
17
18 </body>
19 </html>
20
```

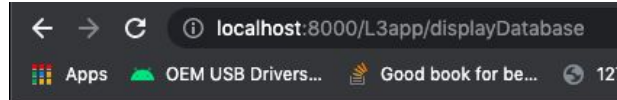
Django forms (Update Data)

Once submitted via html function update database

```
2
3 def updateRecordConfirmation(request, id):
4     name = request.POST['name']
5     hobby = request.POST['hobby']
6     friends = L3app.objects.get(id=id)
7     friends.name = name
8     friends.hobby = hobby
9     friends.save()
0     return HttpResponseRedirect(reverse('displayDatabase'))
1
```

Django forms (Update Data)

Display updated records on html



Display Database

1	john	tennis
31	Sam	fishing
35	Tom	hiking
36	Jane	dancing
37	Emil	swimming
38	Mary	hiking
39	Jerry	skating

[Delete Friends](#)

[Update Friends details](#)

```
5 def displayDatabase(request):
6     allData = L3app.objects.all().values()
7     template = loader.get_template('displayFullData.html')
8     context = {
9         'allData': allData,
10    }
11    return HttpResponse(template.render(context, request))
```

Django forms (Update Data)

Display updated records on html

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5     <h1>Display Database</h1>
6
7     <table border="1">
8         {% for x in allData %}
9         <tr>
10            <td>{{ x.id }}</td>
11            <td>{{ x.name }}</td>
12            <td>{{ x.hobby }}</td>
13        </tr>
14        {% endfor %}
15    </table>
16
17    <p>
18        <a href="deleteData/">Delete Friends</a>
19    </p>
20
21    <p>
22        <a href="updateData/">Update Friends details</a>
23    </p>
24
25 </body>
26 </html>
```

Django forms (Upload images)

Models.py

Remember to makemigrations

```
9 class Image(models.Model):  
0     #have to pip3 install Pillow  
1     title = models.CharField(max_length=200)  
2     image = models.ImageField(null=True, blank=True, upload_to="images")  
3  
4     def __str__(self):  
5         return self.title  
6
```

Django forms (Upload images)

Pip3 Install Pillow

Django forms (Upload images)

Settings.py in L3Proj folder

```
12  
13 from pathlib import Path  
14 import os  
15
```

```
32  
33 # Base url to serve media files  
34 MEDIA_URL = '/media/'  
35  
36 # Path where media is stored  
37 MEDIA_ROOT = os.path.join(BASE_DIR, 'media/')  
38
```

Django forms (Upload images)

url.py in L3Proj folder

```
15 from django.conf.urls.static import static
16 from django.contrib import admin
17 from django.urls import include, path
18 from django.conf import settings
19 from django.conf.urls.static import static
20
```

```
urlpatterns = [
    path('L3app/', include('L3app.urls')),
    path('admin/', admin.site.urls),
]
if settings.DEBUG:
    urlpatterns += static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)
```


Django forms (Upload images)

forms.py in L3app folder

```
views.py  models.py  settings.py  urls.py — L3proj  forms.py

1  from django import forms
2  from .models import Image
3
4
5  class ImageForm(forms.ModelForm):
6      """Form for the image model"""
7      class Meta:
8          model = Image
9          fields = ('title', 'image')
10
```

Django forms (Upload images)

uploadImages.html

```
views.py  models.py  settings.py  urls.py — L3proj  forms.py  uploadImages.html
1  <!DOCTYPE html>
2  <html>
3  <body>
4
5  <h1>Upload images</h1>
6
7  <form method="post" enctype="multipart/form-data">
8      {% csrf_token %}
9      {{ form.as_p }}
10     <button type="submit">Upload</button>
11 </form>
12
13 {% if img_obj %}
14     <h3>Succesfully uploaded : {{img_obj.title}}</h3>
15     
16 {% endif %}
17
18 </body>
19 </html>
20
```

Django forms (Upload images)

views.py

```
0 from L3app.models import School , Principal
1 from L3app.models import Citizen , President
2 #from L3app.models import Company , Boss
3 from django.shortcuts import render
4 from .forms import ImageForm
5
```

```
def image_upload_view(request):
    """Process images uploaded by users"""
    if request.method == 'POST':
        form = ImageForm(request.POST, request.FILES)
        if form.is_valid():
            form.save()
            # Get the current instance object to display in the template
            img_obj = form.instance
            return render(request, 'uploadImages.html', {'form': form, 'img_obj': img_obj})
    else:
        form = ImageForm()
    return render(request, 'uploadImages.html', {'form': form})
```

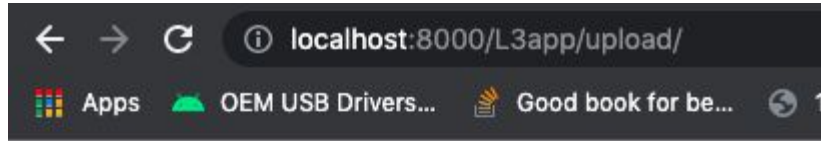
Django forms (Upload images)

Urls.py in L3app folder

```
urlpatterns = [
    path('accessDatabase', views.accessDatabase, name='accessDatabase'),
    path('writeData', views.writeData, name='writeData'),
    path('writeMultipleData', views.writeMultipleData, name='writeMultipleData'),
    path('displayName', views.displayName, name='displayName'),
    path('displayDatabase', views.displayDatabase, name='displayDatabase'),
    path('addData/', views.addData, name='addData'),
    path('addData/addrecord/', views.addrecord, name='addrecord'),
    path('deleteData/', views.deleteData, name='deleteData'),
    path('deleteRecord/<int:id>', views.deleteRecord, name='deleteRecord'),
    path('updateData/', views.updateData, name='updateData'),
    path('updateRecord/<int:id>', views.updateRecord, name='updateRecord'),
    path('updateRecord/updateRecordConfirmation/<int:id>', views.updateRecordConfirmation, name='updateRecordConfirmation'),
    #path('displayCompany/', views.displayCompany, name='displayCompany'),
    path('displayPizza/', views.displayPizza, name='displayPizza'),
    path('displaySchool/', views.displaySchool, name='displaySchool'),
    path('displayPresident/', views.displayPresident, name='displayPresident'),
    path('mycss/', views.mycss, name='mycss'),
    path('upload/', views.image_upload_view),
]
```

Django forms (Upload images)

Browser output



Upload images

Title:

Image: No file chosen

End of Lesson 6