CM3035 Advanced Web Development

Lesson 6

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Add New record

Apps 👅 OEM USB Drivers	Good book for be	
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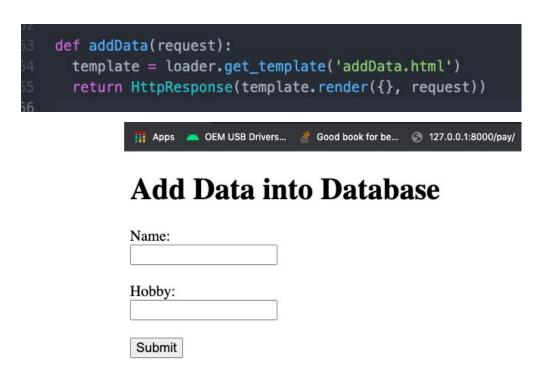
Add Data into Database

Name:	
Hobby:	
Submit	

Set Url.py

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

New record form





Submit form to database via 'post' method

```
from django.template import loader
from .models import L3app
from django.urls import reverse
from .models import Pizza, Topping
from L3app.models import School . Principa
```

```
def addrecord(request):
    x = request.POST['name']
    y = request.POST['hobby']
    insertData = L3app(name=x, hobby=y)
    insertData.save()
    return HttpResponseRedirect(reverse('displayDatabase'))
```

Display the Inserted Records

```
displayFullData.html
<!DOCTYPE html>
<body>
 <h1>Display Database</h1>
 {% for x in allData %}
 {{ x.id }}
 {{ x.name }}
 {{ x.hobby }}
 {% endfor %}
 <a href="deleteData/">Delete Friends</a>
 <a href="updateData/">Update Friends details</a>
```

```
def displayDatabase(request):
    allData = L3app.objects.all().values()
    template = loader.get_template('displayFullData.html')
    context = {
        'allData': allData,
     }
    return HttpResponse(template.render(context, request))
```

Display the Inserted Records

Display Database

1	john	tennis
	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

Delete Data via html form

42 Bella Running

Delete Friends

Add path to delete record

```
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'),
```

Delete function in views.py

```
def deleteData(request):
    myFriends = L3app.objects.all().values()
    template = loader.get_template('deleteData.html')
    context = {
        'myFriends': myFriends,
    }
    return HttpResponse(template.render(context, request))
```

Delete Data via html form



```
deleteData.html
<!DOCTYPE html>
<body>
<h1>Delete Data</h1>
{% for x in myFriends %}
 {{ x.id }}
 {{ x.name }}
 {{ x.hobby }}
 <a href="../deleteRecord/{{ x.id }}">delete</a>
{% endfor %}
<a href="../addData/">Add Friends</a>
```

Delete Data with function in view.py

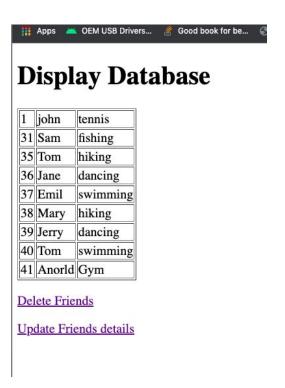
```
def deleteRecord(request, id):
    FriendtoDelete = L3app.objects.get(id=id)
    FriendtoDelete.delete()
    return HttpResponseRedirect(reverse('displayDatabase'))
```

Display the Deleted Records

```
displayFullData.html
<!DOCTYPE html>
 <h1>Display Database</h1>
 {% for x in allData %}
 {{ x.id }}
 {{ x.name }}
 {{ x.hobby }}
 {% endfor %}
 <a href="deleteData/">Delete Friends</a>
 <a href="updateData/">Update Friends details</a>
```

```
def displayDatabase(request):
    allData = L3app.objects.all().values()
    template = loader.get_template('displayFullData.html')
    context = {
        'allData': allData,
     }
    return HttpResponse(template.render(context, request))
```

Display the Deleted Records



Update Friends details

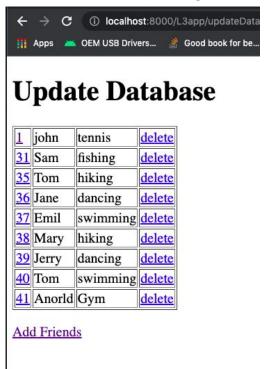
Add path for update records

```
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').
```

Display records from database

```
def updateData(request):
    myFriends = L3app.objects.all().values()
    template = loader.get_template('updateData.html')
    context = {
        'myFriends': myFriends,
    }
    return HttpResponse(template.render(context, request))
```

Display records from database

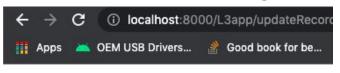


```
<!DOCTYPE html>
 <h1>Update Database</h1>
 {% for x in myFriends %}
 <a href="../updateRecord/{{ x.id }}">{{ x.id }}</a>
 {{ x.name }}
 {{ x.hobby }}
 <a href="../deleteRecord/{{ x.id }}">delete</a>
 {% endfor %}
 <a href="../addData/">Add Friends</a>
</body>
```

Id for record to be updated sent to function

```
def updateRecord(request, id):
    myFriendid = L3app.objects.get(id=id)
    template = loader.get_template('updateRecord.html')
    context = {
        'myFriendid': myFriendid,
    }
    return HttpResponse(template.render(context, request))
```

Object display on html form



Update Friends

First Name: Jerry Last Name: dancing Submit

```
<!DOCTYPE html>
  <h1>Update Friends</h1>
  <form action="updateRecordConfirmation/{{ myFriendid.id }}" method="post">
  {% csrf token %}
  First Name: <br>
  <input name="name" value="{{ myFriendid.name }}">
  <br><br>><br>>
  Last Name: <br>
  <input name="hobby" value="{{ myFriendid.hobby }}">
  <br><br>>
  <input type="submit" value="Submit">
  </form>
</body>
```

Once submitted via html function update database

```
def updateRecordConfirmation(request, id):
    name = request.POST['name']
    hobby = request.POST['hobby']
    friends = L3app.objects.get(id=id)
    friends.name = name
    friends.hobby = hobby
    friends.save()
    return HttpResponseRedirect(reverse('displayDatabase'))
```

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

```
def displayDatabase(request):
    allData = L3app.objects.all().values()
    template = loader.get_template('displayFullData.html')
    context = {
        'allData': allData,
      }
    return HttpResponse(template.render(context, request))
```

Display updated records on html

```
<!DOCTYPE html>
 <h1>Display Database</h1>
 {% for x in allData %}
 {{ x.id }}
 {{ x.name }}
 {{ x.hobby }}
 {% endfor %}
 <a href="deleteData/">Delete Friends</a>
 <a href="updateData/">Update Friends details</a>
```

Models.py Remember to makemigrations

```
class Image(models.Model):

#have to pip3 install Pillow

title = models.CharField(max_length=200)

image = models.ImageField(null=True, blank=True, upload_to="images")

def __str__(self):
    return self.title
```

Pip3 Install Pillow

Settings.py in L3Proj folder

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

```
# Base url to serve media files

MEDIA_URL = '/media/'

# Path where media is stored

MEDIA_ROOT = os.path.join(BASE_DIR, 'media/')
```

url.py in L3Proj folder

```
from django.contrib import admin
from django.urls import include, path
from django.conf import settings
from django.conf.urls.static import static
```

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

forms.py in L3app folder

```
urls.py - L3proj
            models.py
                                                   forms.py
views.py
 from django import forms
  from .models import Image
 class ImageForm(forms.ModelForm):
      """Form for the image model"""
      class Meta:
          model = Image
           fields = ('title', 'image')
```

uploadImages.html

```
uploadImages.html
<!DOCTYPE html>
<body>
<h1>Upload images</h1>
<form method="post" enctype="multipart/form-data">
  {% csrf_token %}
   {{ form.as_p }}
  <button type="submit">Upload</putton>
</form>
{% if img_obj %}
 <h3>Successfully uploaded : {{img_obj.title}}</h3>
  <imq src="{{ imq_obj.image.url}}" alt="connect" style="max-height:300px">
{% endif %}
</body>
</html>
```

views.py

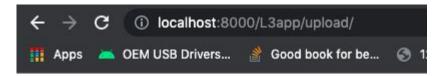
```
from L3app.models import School , Principal from L3app.models import Citizen , President #from L3app.models import Company , Boss from django.shortcuts import render from .forms import ImageForm
```

```
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})
```

Urls.py in L3app folder

```
urlpatterns = [
    path('accessDatabase', views.accessDatabase, name='accessDatabase
   path('writeData', views.writeData, name='writeData'),
    path('writeMultipleData', views.writeMultipleData, name='writeMu
   path('displayName', views.displayName, name='displayName'),
    path('displayDatabase', views.displayDatabase, name='displayData
    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='deleteRe
    path('updateData/', views.updateData, name='updateData'),
    path('updateRecord/<int:id>', views.updateRecord, name='updateRe
    path('updateRecord/updateRecordConfirmation/<int:id>', views.upd
   path('displayPizza/', views.displayPizza, name='displayPizza'),
   path('displaySchool/', views.displaySchool, name='displaySchool
   path('displayPresident/', views.displayPresident, name='displayF
    path('mycss/', views.mycss, name='mycss'),
    path('upload/', views.image_upload_view),
```

Browser output



Upload images

Title:		
Image:	Choose file	No file choser
Upload		

End of Lesson 6