

Homework 3: Web DB

Professor: Jeremy Harper

TAs: Bhavana Dhonvan, Latha Sree Rayala

Student Name: Deepak Rajput

Program: MS Applied Data Science

Index Table:

Sr. No.	Homework Requirement	Page number
1	Django installation & configuration snaps	1
2	Project & App code's snapshots	2-4
3	Required Webpage snap	5

Terminal Window snap for configuration of virtual environment and installation of Django and running server:

```

● PS C:\Users\deepa\OneDrive\Desktop\Deepak_Rajput> python -m venv .venv
● PS C:\Users\deepa\OneDrive\Desktop\Deepak_Rajput> cd myproject
● PS C:\Users\deepa\OneDrive\Desktop\Deepak_Rajput\myproject> python -m venv .venv
● PS C:\Users\deepa\OneDrive\Desktop\Deepak_Rajput\myproject> .venv\Scripts\Activate.ps1

```

```

● (.venv) PS C:\Users\deepa\OneDrive\Desktop\Deepak_Rajput\myproject> python -m pip install django~=4.0.0
Collecting django~=4.0.0
  Using cached Django-4.0.10-py3-none-any.whl (8.0 MB)
Collecting asgiref<4,>=3.4.1
  Using cached asgiref-3.6.0-py3-none-any.whl (23 kB)
Collecting tzdata
  Using cached tzdata-2023.2-py2.py3-none-any.whl (342 kB)
Collecting sqlparse>=0.2.2
  Using cached sqlparse-0.4.3-py3-none-any.whl (42 kB)
Installing collected packages: tzdata, sqlparse, asgiref, django
Successfully installed asgiref-3.6.0 django-4.0.10 sqlparse-0.4.3 tzdata-2023.2

[notice] A new release of pip available: 22.3.1 -> 23.0.1
[notice] To update, run: python.exe -m pip install --upgrade pip
● (.venv) PS C:\Users\deepa\OneDrive\Desktop\Deepak_Rajput\myproject> python -m pip install --upgrade pip

```

```

● (.venv) PS C:\Users\deepa\OneDrive\Desktop\Deepak_Rajput\myproject> python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).

You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations for app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
March 28, 2023 - 16:31:35
Django version 4.0.10, using settings 'Deepak_django_project.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.

```

```

Applying auth.0009_alter_user_last_name_max_length... OK
Applying auth.0010_alter_group_name_max_length... OK
Applying auth.0011_update_proxy_permissions... OK
Applying auth.0012_alter_user_first_name_max_length... OK
Applying sessions.0001_initial... OK
● (.venv) PS C:\Users\deepa\OneDrive\Desktop\Deepak_Rajput\myproject> python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
March 28, 2023 - 16:32:28
Django version 4.0.10, using settings 'Deepak_django_project.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.

```

Snap of Codes for Project & App required comment “SP23-IN INFO-B512” is also marked in both files codes:

```
C: > Users > deepa > OneDrive > Desktop > Deepak_Rajput > myproject > manage.py > ...  
1  #!/usr/bin/env python  
2  # "SP23-IN INFO-B512"  
3  """Django's command-line utility for administrative tasks."""  
4  import os  
5  import sys  
6  
7  
8  def main():  
9      """Run administrative tasks."""  
10     os.environ.setdefault("DJANGO_SETTINGS_MODULE", "Deepak_django_project.settings")  
11     try:  
12         from django.core.management import execute_from_command_line  
13     except ImportError as exc:  
14         raise ImportError(  
15             "Couldn't import Django. Are you sure it's installed and "  
16             "available on your PYTHONPATH environment variable? Did you "  
17             "forget to activate a virtual environment?"  
18         ) from exc  
19     execute_from_command_line(sys.argv)  
20  
21  
22 if __name__ == "__main__":  
23     main()
```

```
C: > Users > deepa > OneDrive > Desktop > Deepak_Rajput > myproject > Deepak_django_project > settings.py > ...  
29  
30  
31 # Application definition  
32  
33 INSTALLED_APPS = [  
34     "django.contrib.admin",  
35     "django.contrib.auth",  
36     "django.contrib.contenttypes",  
37     "django.contrib.sessions",  
38     "django.contrib.messages",  
39     "django.contrib.staticfiles",  
40     "myapp",  
41 ]  
42  
43 MIDDLEWARE = [  
44     "django.middleware.security.SecurityMiddleware",  
45     "django.contrib.sessions.middleware.SessionMiddleware",  
46     "django.middleware.common.CommonMiddleware",  
47     "django.middleware.csrf.CsrfViewMiddleware",  
48     "django.contrib.auth.middleware.AuthenticationMiddleware",  
49     "django.contrib.messages.middleware.MessageMiddleware",  
50     "django.middleware.clickjacking.XFrameOptionsMiddleware",  
51 ]
```

```

Welcome  urls.py x
C: > Users > deepa > OneDrive > Desktop > Deepak_Rajput > myproject > Deepak_django_project > urls.py > ...
10 1. Add an import: from other_app.views import Home
11 2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
12 Including another URLconf
13 1. Import the include() function: from django.urls import include, path
14 2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
15 """
16 from django.contrib import admin
17 from django.urls import path, include
18
19 urlpatterns = [
20     path("admin/", admin.site.urls),
21     path("", include("myapp.urls")),
22 ]
23

```

```

C: > Users > deepa > OneDrive > Desktop > Deepak_Rajput > myproject > Deepak_django_project > wsgi.py > ...
14 os.environ.setdefault("DJANGO_SETTINGS_MODULE", "Deepak_django_project.settings") ✓
15
16 application = get_wsgi_application()
17

```

```

C: > Users > deepa > OneDrive > Desktop > Deepak_Rajput > myproject > Deepak_django_project > asgi.py > ...
1 """
2 ASGI config for Deepak_django_project project.
3
4 It exposes the ASGI callable as a module-level variable named ``application``.
5
6 For more information on this file, see
7 https://docs.djangoproject.com/en/4.1/howto/deployment/asgi/
8 """
9
10 import os
11
12 from django.core.asgi import get_asgi_application
13
14 os.environ.setdefault("DJANGO_SETTINGS_MODULE", "Deepak_django_project.settings") ✓
15
16 application = get_asgi_application()
17

```

```

C: > Users > deepa > OneDrive > Desktop > Deepak_Rajput > myproject > myapp > urls.py > ...
1 from django.urls import path
2 from . import views
3
4 urlpatterns = [
5     path("", views.home, name="home"),
6     path("personalweb/", views.home, name="personalweb"), ✓
7 ]
8 # SP23-IN INFO-B512 ✓
9

```

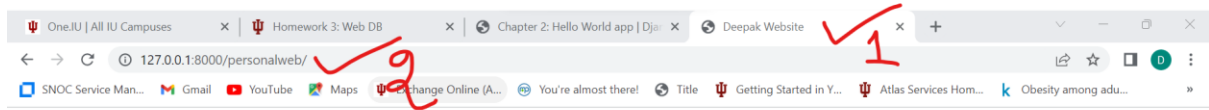
C: > Users > deepa > OneDrive > Desktop > Deepak_Rajput > myproject > myapp > views.py > ...

```
2
3 # Create your views here.
4
5
6 def home(request):
7     context = {
8         "name": "Deepak Rajput",
9         "sentence": "This is Deepak Rajput's Page",
10    }
11    return render(request, "myapp/home.html", context)
12
13
14 def personalweb(request):
15     context = {
16         "name": "Deepak Rajput",
17         "sentence": "This is Deepak Rajput's Page",
18    }
19    return render(request, "myapp/home.html", context)
20
```

C: > Users > deepa > OneDrive > Desktop > Deepak_Rajput > myproject > myapp > templates > myapp > home.html > html

```
5 <title>Deepak Website</title>
6 <style>
7     body {
8         display: flex;
9         justify-content: center;
10        align-items: center;
11        height: 100vh;
12        margin: 0;
13    }
14
15    h1 {
16        font-size: 5em;
17    }
18 </style>
19 </head>
20
21 <body>
22     <h1>This is Deepak Rajput's Page</h1>
23 </body>
24
25 </html>
```

Final Outcome: Webpage with all 3 requirements marked in red



This is Deepak Rajput's Page ✓
3

