Creating Django virtual environment and activating it.

```
Microsoft Windows [Version 10.0.19845.4355]
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J:\My Drive\Acumen Cognitive task\Django>python -m venv django_venv

J:\My Drive\Acumen Cognitive task\Django>"j:\My Drive\Acumen Cognitive task\Django\django_venv\Scripts\activate"

(django_venv) J:\My Drive\Acumen Cognitive task\Django>

[]
```

Installing Django

```
(django_venv) J:\My Drive\Acumen Cognitive task\Django>pip install django
Collecting django
  Downloading Django-5.0.6-py3-none-any.whl (8.2 MB)
Collecting tzdata
  Downloading tzdata-2024.1-py2.py3-none-any.whl (345 kB)
                                             | 345 kB 123 kB/s
Collecting sqlparse>=0.3.1
  Downloading sqlparse-0.5.0-py3-none-any.whl (43 kB)
                                             | 43 kB 71 kB/s
Collecting asgiref<4,>=3.7.0
 Downloading asgiref-3.8.1-py3-none-any.whl (23 kB)
Collecting typing-extensions>
 Downloading typing_extensions-4.12.2-py3-none-any.whl (37 kB)
Installing collected packages: typing-extensions, tzdata, sqlparse, asgiref, django Successfully installed asgiref-3.8.1 django-5.0.6 sqlparse-0.5.0 typing-extensions-4.12.2 tzdata-2024.1
WARNING: You are using pip version 21.2.4; however, version 24.1 is available.
You should consider upgrading via the 'J:VNy Drive\Acumen Cognitive task\Django\django_venv\Scripts\python.exe -m pip install --upgrade pip' command.
(django venv) J:\My Drive\Acumen Cognitive task\Djangox
```

Starting project and creating app

```
(django_venv) J:\My Drive\Acumen Cognitive task\Django>django-admin startproject apiproject

(django_venv) J:\My Drive\Acumen Cognitive task\Django>cd apiproject

(django_venv) J:\My Drive\Acumen Cognitive task\Django\apiproject>python manage.py startapp apiapp

(django_venv) J:\My Drive\Acumen Cognitive task\Django\apiproject>]
```

Installing Rest framework

Creating app_urls.py in app

Include app_urls at project level in urls.py

```
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
path('admin/', admin.site.urls),
path('', include('myapp.urls')),

]
```

Creating template folder and registering in settings.py

Creating user_form.html in templates

```
templates > apiapp > • user_form.html > ...
      <!DOCTYPE html>
      <html lang="en">
          <meta charset="UTF-8">
          <meta http-equiv="X-UA-Compatible" content="IE=edge">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title>User Form</title>
          <h1>User Details</h1>
          <form action="{% url 'process_form' %}" method="post">
               {% csrf_token %}
               <label for="name">Name:</label>
              <input type="text" id="name" name="name"><br>
              <label for="age">Age:</label>
               <input type="number" id="age" name="age"><br>
              <label for="salary">Salary:</label>
              <input type="number" id="salary" name="salary"><br>
              <input type="submit" value="Submit">
          </form>
```

Models.py

View.py

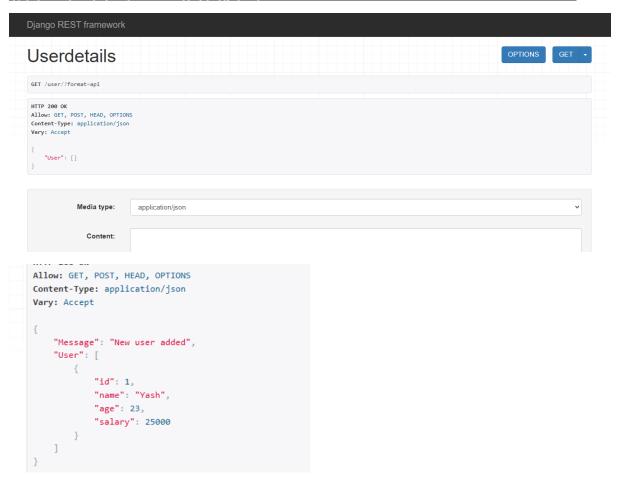
Makemigrations and migrate

```
(django_venv) J:\My Drive\Acumen Cognitive task\Django\apiproject>python manage.py makemigrations
Migrations for 'apiapp':
    apiapp\migrations\0001_initial.py
    - Create model User

(django_venv) J:\My Drive\Acumen Cognitive task\Django\apiproject>python manage.py migrate
Operations to perform:
```

Runserver

(django_venv) J:\My Drive\Acumen Cognitive task\Django\apiproject>python manage.py runserver



Performing form validation

Creating serializers.py

Changes in views.py

Runserver



Submitting task incomplete because of deadline, some errors to be solve	