

**Name:-**

**PRN: -**

**Class:- Ty (btech)**

**Batch:**

## **PRACTICAL: 3**

**AIM:** Design a django project for “text-to-HTML converter”

### **THEORY**

#### **INTRODUCTION:**

In this we will create a project for converting text to html convertor. That means if you give input in text whatever you want in your website such as table, headlines, list, etc and click on the submit button it will automatically create html code, without you writing it

#### **STARTING THE PROJECT**

To initiate a project of Django on Your PC, open Terminal and enter the following command

**django-admin startproject text\_to\_html\_convertor**

A New Folder with the name projectName will be created. To enter in the project using the terminal enter command

**cd text\_to\_html\_convertor**

Now let's run the server and see everything is working fine or not. To run the server, type the below command in the terminal.

**python manage.py runserver**

#### **CREATING APP**

To create an app we need to go to the directory containing manage.py and run the following command –

**python manage.py startapp convertor**

## INSTALL django-ckeditor PACKAGE

ckeditor provides a text editor in django.

### **pip install django-ckeditor**

#### ➤ **Settings.py**

Add your app name in settings.py

```
INSTALLED_APPS = [  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
  
    'convertor',  
    'ckeditor',  
]
```

Create a folder template in your project directory. Add path for this template in settings.py

```
TEMPLATES = [  
    {  
        'BACKEND': 'django.template.backends.django.DjangoTemplates',  
        'DIRS': [os.path.join(BASE_DIR, 'template')],  
        'APP_DIRS': True,  
        'OPTIONS': {  
            'context_processors': [  
                'django.template.context_processors.debug',  
                'django.template.context_processors.request',  
                'django.contrib.auth.context_processors.auth',  
                'django.contrib.messages.context_processors.messages',  
            ],  
        },  
    ],  
]
```

### ➤ **Urls.py**

Create a new file urls.py in your app

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

urlpatterns = [
    path('admin/', admin.site.urls),
    path("", include('converter.urls')),
]
```

### ➤ **Models.py**

Open models.py file and write following code

```
from django.db import models
from ckeditor.fields import RichTextField

class Editor(models.Model):
    body = RichTextField(blank = True, null = True)
```

### ➤ **Forms.py**

Create forms.py file in your app

```
from django import forms
from .models import Editor
from ckeditor.widgets import CKEditorWidget

class EditorForm(forms.ModelForm):
    body = forms.CharField(widget=CKEditorWidget(), label = "Text Editor")
    class Meta:
        model = Editor
        fields = "__all__"
```

### ➤ **Views.py**

Create views.py file in your app

```
from django.shortcuts import render
from .models import Editor
from .forms import EditorForm

# Create your views here.
```

```
def convert_function(request):
    form = EditorForm()
    return render(request, "index.html", {
        "form": form
    })
```

## ➤ Index.html

Create index.html file in templates folder

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Text to html editor</title>
    <!-- ++++++ bootstrap cdn ++++++ -->
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZ
w1T" crossorigin="anonymous">
</head>
<style>
    #cke_id_body {
        width: inherit !important;
    }
    .htmleditor p {
        font-weight: 900;
        font-size: 20px;
    }
    .texteditor p label {
        font-weight: 800;
        font-size: 18px;
    }
    #htmldata {
        font-weight: 600;
    }
</style>
<body>
    <!-------Navbar start ----->
    <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
        <a class="navbar-brand" href="#">Text to Html Convertor</a>
    </nav>
    <!-------Navbar Ends----->
    <div class="container-fluid">
        <div class="row">
```

```
<div class="col-lg-6 col-md-6 col-sm-6 col-6">
  <div class="texteditor">
    {{ form.media }}
    {{ form.as_p }}
  </div>
  <input type="submit" class="btn btn-info" onclick="TextConvert()">
</div>
<div class="col-lg-6 col-md-6 col-sm-6 col-6">
  <div class="htmleditor">
    <p>HTML Editor</p>
    <div class="form-group">
      <textarea class="form-control " rows="16" id='htmldata'>
    </textarea>
    </div>
  </div>
</div>
</div>
</body>
</html>
<script>
  function TextConvert() {
    var x = CKEDITOR.instances['id_body'].getData();
    var y = document.getElementById('htmldata');
    y.innerHTML = x;
  }
</script>
<!-- ++++++ bootstrap cdn ++++++ -->
<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
  integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
  crossorigin="anonymous"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
  integrity="sha384-
UO2eT0CpHqdsJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz
0W1"
  crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
  integrity="sha384-
JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/njGzIxFDsf4x0xIM+B07jRM"
  crossorigin="anonymous"></script>
```

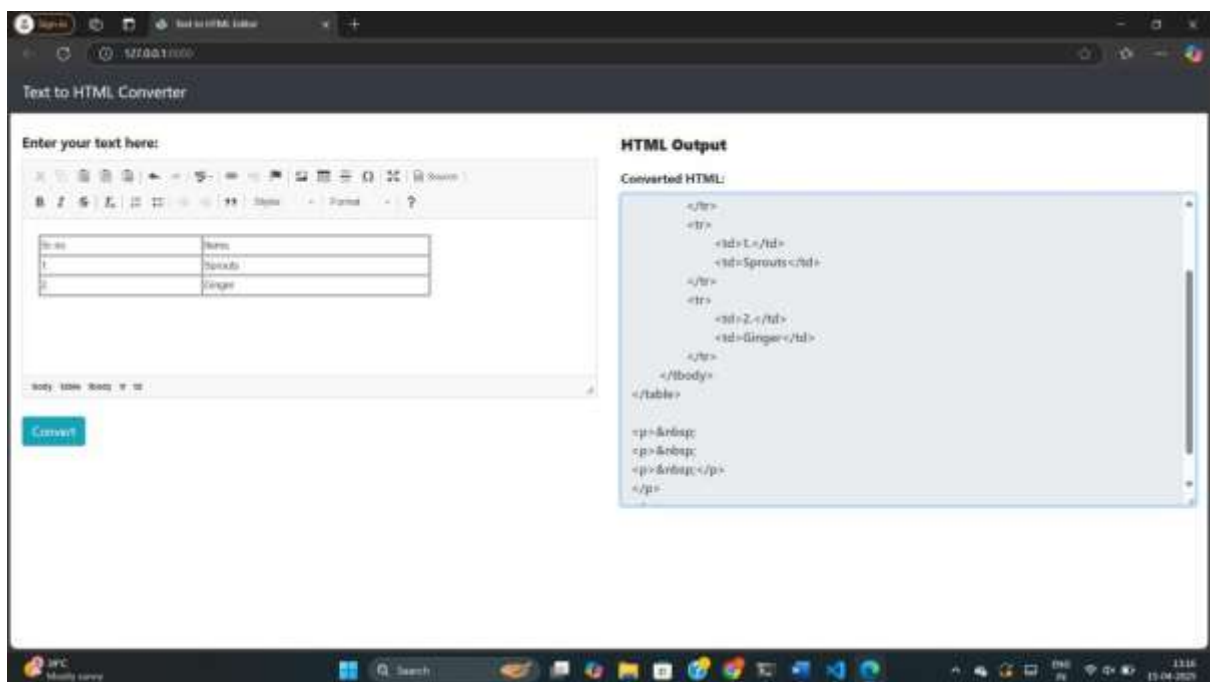
## ➤ Urls.py

Add your apps urls in the project url.py file

```
from django.urls import path
from . import views

urlpatterns = [
    path("", views.convert_function, name = "convert_function")
]
```

## OUTPUT:



## CONCLUSION:

Hence, in this practical we learnt to convert text to HTML project in django

**Sign of Teacher**