

Online Resume Builder using Django

Last Updated: 24 Sep, 2024

In this article, we will create an online resume builder web app. We will start by filling out a form with our personal information. Once the form is completed, we can generate a resume. Additionally, we will ensure the PDF generation quality to make the final result closely resemble the original resume in a professional and proper format. To use this service, you only need to input your information and submit the form.

Online Resume Builder using Django

To install <u>Django</u> follow these <u>steps</u>.

Starting the Project Folder

To start the project use this command

```
django-admin startproject core
cd home
```

To start the app use this command

```
python manage.py startapp home
```

Then register the app in settings.py file

```
INSTALLED_APPS = [
   "django.contrib.admin",
   "django.contrib.auth",
   "django.contrib.contenttypes",
   "django.contrib.sessions",
   "django.contrib.messages",
   "django.contrib.staticfiles",
```

1

"home",

File Structure:



File Structure

Note: Developing a resume builder is an excellent way to practice Django. For those looking to expand their knowledge, the <u>Django Web Development</u> <u>Course</u> covers advanced techniques that can help refine your skills.

Setting up Necessary files

home/views.py

The given code in <u>Python</u> handles two web pages: "home" and "gen_resume." The "home" view renders an HTML template named 'index.html' when the user accesses it. The "gen_resume" view is used to generate a resume and handles POST requests containing form data. The view collects data from the POST request and then renders an HTML template named 'resume.html' with the collected data passed as context to the template.

```
Python
```

```
1 from django.shortcuts import render
2 def home(request):
3    return render(request, 'index.html')
4 def gen_resume(request):
5    if request.method == 'POST':
```

```
name = request.POST.get('name', '')
            about = request.POST.get('about', '')
7
            age = request.POST.get('age', '')
8
            email = request.POST.get('email', '')
9
            phone = request.POST.get('phone', '')
10
            skill1 = request.POST.get('skill1', '')
11
            skill2 = request.POST.get('skill2', '')
12
            skill3 = request.POST.get('skill3', '')
13
            skill4 =request.POST.get('skill4', '')
14
            skill5 =request.POST.get('skill5', '')
15
            degree1 = request.POST.get('degree1', '')
16
            college1 = request.POST.get('college1', '')
17
            year1 = request.POST.get('year1', '')
18
            degree2 = request.POST.get('degree2', '')
19
            college2 = request.POST.get('college2', '')
20
            year2 = request.POST.get('year2', '')
21
            college3 = request.POST.get('college3', '')
22
            year3 = request.POST.get('year3', '')
23
            degree3 = request.POST.get('degree3', '')
24
25
            lang1 = request.POST.get('lang1', '')
            lang2 = request.POST.get('lang2', '')
26
            lang3 = request.POST.get('lang3', '')
27
            project1= request.POST.get('project1', '')
28
            durat1 = request.POST.get('duration1', '')
29
            desc1 = request.POST.get('desc1', '')
30
            project2 = request.POST.get('project2', '')
31
            durat2 = request.POST.get('duration2', '')
32
            desc2 = request.POST.get('desc2', '')
33
            company1 = request.POST.get('company1', '')
34
            post1 = request.POST.get('post1', '')
35
            duration1 = request.POST.get('duration1', '')
36
            lin11 = request.POST.get('lin11', '')
37
            company2 = request.POST.get('company2', '')
38
            post2 = request.POST.get('post2', '')
39
            duration2 = request.POST.get('duration2', '')
40
            lin21 = request.POST.get('lin21', '')
41
            ach1 = request.POST.get('ach1', '')
42
            ach2 = request.POST.get('ach2', '')
43
            ach3 = request.POST.get('ach3', '')
44
            return render(request, 'resume.html', {'name':name,
45
46
    'about':about, 'skill5':skill5,
                                                     'age':age,
47
    'email':email,
```

```
'phone':phone, 'skill1':skill1,
49
    'skill2':skill2, 'skill3':skill3,
50
    'skill4':skill4, 'degree1':degree1,
    'college1':college1, 'year1':year1,
52
    'college3':college3, 'year3':year3,
53
    'degree3':degree3, 'lang1':lang1,
54
    'lang2':lang2, 'lang3':lang3,
55
    'degree2':degree2, 'college2':college2,
56
    'year2':year2, 'project1':project1,
57
    'durat1':durat1, 'desc1':desc1,
58
    'project2':project2, 'durat2':durat2,
59
    'desc2':desc2, 'company1':company1,
    'nost1'.nost1 'dunation1'. dunation1
```

Creating GUI

templates/index.html

This HTML code creates a structured form for gathering personal information, skills, educational history, and work experience, and it is styled using CSS for a visually appealing user interface.

HTML

```
Q
      1 <!DOCTYPE html>
      2 <html>
      3
      4
         <head>
      5
              <style>
      6
                  body {
      7
                       font-family: Arial, sans-serif;
                  }
      8
      9
                   .form-container {
      10
                      width: 60%;
      11
                       margin: 0 auto;
     12
                       padding: 20px;
     13
                       border: 1px solid #ccc;
      14
                       border-radius: 5px;
      15
                  }
      16
     17
                   .form-group {
      18
      19
                       margin-bottom: 15px;
                  }
      20
      21
      22
                   .form-group label {
                       display: block;
      23
                       font-weight: bold;
      24
                  }
      25
      26
                   .form-group input[type="text"],
      27
                   .form-group textarea {
      28
                      width: 100%;
      29
                       padding: 10px;
      30
                       border: 1px solid #ccc;
      31
                       border-radius: 5px;
      32
                  }
      33
      34
                   .form-group textarea {
      35
                       height: 100px;
      36
                  }
      37
      38
                  /* Apply styles to the skills input elements */
      39
      40
                   .om {
```

```
width: 100%;
                 padding: 10px 20px;
42
                 display: flex;
43
44
                 gap: 10px;
             }
45
46
             .ed {
47
                 width: 100%;
48
                 padding: 10px 20px;
49
                 display: flex;
50
                 gap: 4%;
51
             }
52
53
             .com {
54
                 width: 80%;
55
                 padding: 5px 20px;
56
                 display: flex;
57
                 gap: 7%;
58
59
60
             }
61
62
             .op {
                 margin: 10px;
63
64
             }
65
66
             .btn1 {
67
                 margin-left: 43%;
68
                 padding: 15px 15px;
69
                 font-size: 15px;
70
                 font-weight: bold;
71
                 background-color: rgb(35, 144, 208);
72
                 border-radius: 10px;
73
74
             }
75
             /* You can add more styles as needed */
76
77
        </style>
    </head>
78
79
    <body>
80
        <h1 style="text-align: center; color:green; font-</pre>
81
    size:40px; ">GeeksforGeeks</h1>
82
```

```
<form action="{% url 'resume' %}" method="post">
             {% csrf_token %}
 84
 85
 86
 87
             <!-- =======PERSONAL
    88
             <div class="form-container">
 89
                 <h2>Personal Information</h2>
 90
                 <div class="form-group">
 91
92
                     <label for="name">Name:</label>
                     <input type="text" id="name" name="name">
 93
 94
                 </div>
                 <div class="form-group">
 95
                     <label for="name">About:</label>
 96
                     <input type="text" id="name" name="about">
 97
                 </div>
 98
                 <div class="form-group">
 99
                     <label for="age">Age:</label>
100
                     <input type="text" id="age" name="age">
101
102
                 </div>
                 <div class="form-group">
103
                     <label for="email">Email:</label>
104
105
                     <input type="text" id="email"</pre>
    name="email">
                 </div>
106
                 <div class="form-group">
107
                     <label for="phone">Phone:</label>
108
                     <input type="text" id="phone"</pre>
109
    name="phone">
                 </div>
110
                 <div class="form-group ">
111
                     <label for="skills">Skills:</label>
112
                     <div class="om">
113
                          <input type="text" id="skills"</pre>
114
    name="skill1">
115
                         <input type="text" id="skills"</pre>
    name="skill2">
                          <input type="text" id="skills"</pre>
116
    name="skill3">
117
                         <input type="text" id="skills"</pre>
    name="skill4">
                         <input type="text" id="skills"</pre>
118
    name="skill5">
                     </div>
119
```

```
</div>
121
122
                      <!-- ======EDUCATION
    SECTION ========= -->
123
                       <!-- ---- EDUCATION 1---- -->
124
125
                      <div class="form-group">
                          <label for="education1">Education 1:
126
    </label>
                      </div>
127
                      <div class="ed">
128
                          <div class="form-group">
129
                              <label for="degree1">Degree :
130
    </label>
                              <input type="text" id="degree1"</pre>
131
    name="degree1">
                          </div>
132
                          <div class="form-group">
133
                              <label for="college1">College :
134
    </label>
                              <input type="text" id="college1"</pre>
135
    name="college1">
136
                          </div>
                          <div class="form-group">
137
                              <label for="year1">Year :</label>
138
                              <input type="text" id="year1"</pre>
139
    name="year1">
                          </div>
140
                      </div>
141
142
                          <!-- ---- EDUCATION 2---- -->
143
                      <div class="form-group">
144
                          <label for="education1">Education 2:
145
    </label>
                      </div>
146
                      <div class="ed">
147
                          <div class="form-group">
148
149
                              <label for="degree1">Degree:
    </label>
150
                              <input type="text" id="degree1"</pre>
    name="degree2">
                          </div>
151
                          <div class="form-group">
152
                              <label for="college1">College:
153
    </label>
```

```
<input type="text" id="college1"</pre>
    name="college2">
                         </div>
155
                         <div class="form-group">
156
157
                              <label for="year1">Year:</label>
                              <input type="text" id="year1"</pre>
158
    name="year2">
159
                         </div>
                     </div>
160
161
                         <!-- ---- EDUCATION 3---- ->
162
                     <div class="form-group">
163
                         <label for="education1">Education 3:
164
    </label>
                     </div>
165
                     <div class="ed">
166
                         <div class="form-group">
167
                              <label for="degree1">Degree:
168
    </label>
169
                              <input type="text" id="degree1"</pre>
    name="degree3">
170
                         </div>
                         <div class="form-group">
171
                             <label for="college1">College:
172
    </label>
                             <input type="text" id="college1"</pre>
173
    name="college3">
                         </div>
174
                         <div class="form-group">
175
                              <label for="year1">Year:</label>
176
                              <input type="text" id="year1"</pre>
177
    name="year3">
                         </div>
178
                     </div>
179
180
181
                     <!--
    182
                     <div class="form-group ">
183
184
                         <label for="skills">Languages :
    </label>
185
                         <div class="om">
                              <input type="text" id="skills"</pre>
186
    name="lang1">
```

```
<input type="text" id="skills"</pre>
     name="lang2">
                               <input type="text" id="skills"</pre>
188
     name="lang3">
                          </div>
189
                      </div>
190
191
192
                      <!-- ======PROJECT
     SECTION========= -->
193
                      <!-- PROJECT 1 -->
194
195
                      <div class="form-group">
196
                          <label for="experience1">Project 1 :
197
     </label>
                      </div>
198
                      <div class="com">
199
                          <div class="form-group ">
200
                               <label for="company1">Project
201
     Title :</label>
                               <input type="text" id="company1"</pre>
202
     name="project1">
203
                          </div>
                          <div class="form-group">
204
205
                               <label for="post1">Duration :
     </label>
                               <input type="text" id="post1"</pre>
206
     name="durat1">
                          </div>
207
                      </div>
208
                      <div class="form-group">
209
                          <label for="description1">Description
210
     :</label>
                          <input type="text" id="duration1"</pre>
211
     name="desc1">
212
                      </div>
213
214
                      <!-- PROJECT 2 -->
215
                      <div class="form-group">
216
                          <label for="experience1">Project 2 :
217
     </label>
218
                      </div>
219
                      <div class="com">
220
```

```
<div class="form-group ">
                              <label for="company1">Project
222
    Title :</label>
223
                              <input type="text" id="company1"</pre>
    name="project2">
224
                          </div>
                          <div class="form-group">
225
226
                              <label for="post1">Duration :
    </label>
                              <input type="text" id="post1"</pre>
227
    name="durat2">
                          </div>
228
                      </div>
229
                      <div class="form-group">
230
                          <label for="description1">Description
231
     :</label>
                          <input type="text" id="duration1"</pre>
232
    name="desc2">
                      </div>
233
234
235
                      <!-- ======EXPERICNECE
    SECTION========== -->
                      <div class="form-group">
236
                          <label for="experience1">Experience 1:
237
    </label>
                      </div>
238
                      <div class="com">
239
                          <div class="form-group ">
240
                              <label for="company1">Company Name
241
     :</label>
                              <input type="text" id="company1"</pre>
242
    name="company1">
243
                          </div>
                          <div class="form-group">
244
                              <label for="post1">Post :</label>
245
                              <input type="text" id="post1"</pre>
246
    name="post1">
                          </div>
247
248
                          <div class="form-group">
                              <label for="duration1">Duration :
249
    </label>
                              <input type="text" id="duration1"</pre>
250
    name="duration1">
                          </div>
251
                      </div>
252
```

```
<div class="form-group ">
                         <label for="description1">Description
254
    :</label>
255
                         <div class="op">
256
                             <input type="text" id="duration1"</pre>
    name="lin11">
                         </div>
257
258
                     </div>
                     <div class="form-group">
259
                         <label for="experience1">Experience 2:
260
    </label>
261
                     </div>
                     <div class="com">
262
                         <div class="form-group ">
263
                             <label for="company1">Company Name
264
    :</label>
                             <input type="text" id="company1"</pre>
265
    name="company2">
                         </div>
266
                         <div class="form-group">
267
                             <label for="post1">Post :</label>
268
                             <input type="text" id="post1"</pre>
269
    name="post2">
                         </div>
270
                         <div class="form-group">
271
                             <label for="duration1">Duration :
272
    </label>
                             <input type="text" id="duration1"</pre>
273
    name="duration2">
274
                         </div>
275
                     </div>
276
                     <div class="form-group">
277
                         <label for="description1">Description
278
    :</label>
279
                         <input type="text" id="duration1"</pre>
    name="lin21">
                     </div>
280
281
282
                     <!--
    283
                     <div class="form-group">
284
                         <label for="experience1">Achievement :
285
    </label>
```

```
</div>
                       <div class="form-group ">
287
288
                           <label for="company1">First :</label>
289
                           <input type="text" id="company1"</pre>
     name="ach1">
290
                       </div>
291
                       <div class="form-group">
292
                           <label for="post1">Second :</label>
                           <input type="text" id="post1"</pre>
293
     name="ach2">
                      </div>
294
                       <div class="form-group">
295
                           <label for="duration1">Third :</label>
296
                           <input type="text" id="duration1"</pre>
297
     name="ach3">
                      </div>
298
                      <button type="submit" class=" btn1</pre>
299
     ">Submit</button>
                  </div>
300
301
         </form>
302
    </body>
303
304 </html>
```

templates/resume.html

This HTML code is a structured template for creating a personal resume or CV. Additionally, there's a JavaScript code snippet at the bottom that defines the myfun function. This function is responsible for generating and printing the resume when the button is clicked.

HTML

```
</head>
9 <style>
        * {
10
11
            box-sizing: border-box;
            margin: 0;
12
             padding: 0;
13
             font-family: montserrat;
14
        }
15
16
        .container {
17
             background-color: #f5f5f5;
18
             max-width: 800px;
19
            margin: 60px auto;
20
             height: 1100px;
21
             padding: 20px;
22
            box-shadow: 10px 2em 30px rgba(0, 0, 0, 0.3);
23
        }
24
25
        .header {
26
27
            text-align: center;
28
        }
29
        .header h1 {
30
            margin-bottom: 5px;
31
        }
32
33
        .header h3 {
34
             text-transform: uppercase;
35
            font-size: 15px;
36
             font-weight: 500;
37
        }
38
39
        .main {
40
             display: flex;
41
            flex-wrap: wrap;
42
43
        }
44
        .left {
45
             flex: 1;
46
             padding: 30px;
47
        }
48
49
        .left p {
50
```

```
line-height: 1;
        }
52
53
54
        .left ul li {
55
             line-height: 1;
56
57
        }
58
        h2 {
59
60
             padding: 5px;
61
             color: #584d4d;
62
             margin: 30px 0;
63
            text-decoration: underline;
64
65
            font-size: 25px;
66
            border-radius: 0 20px 20px 0;
67
        }
68
69
70
        .right {
            flex: 1;
71
72
             padding: 20px;
73
74
        }
75
        .right h3 {
76
             margin-bottom: 5px;
77
78
        }
79
80
        .right ul li {
81
             line-height: 1;
82
        }
83
84
        .btn1 {
85
             margin-left: 43%;
86
87
             padding: 15px 15px;
             font-size: 15px;
88
             font-weight: bold;
89
            background-color: rgb(106, 233, 106);
90
             border-radius: 10px;
91
92
    </style>
93
```

```
<body>
95
96
       <h1 style="text-align: center; color:green; font-</pre>
    size:40px; ">GeeksforGeeks</h1>
       <div id="mn" class="container">
97
           <div class="header">
98
               99
               <h1>{{name}}</h1>
100
               <h3>{{about}}</h3>
101
           </div>
102
           <div class="main">
103
               <div class="left">
104
105
                  <h2>Personal Information</h2>
                  <strong>Name :</strong>{{name}}
106
                  <strong>Age :</strong>{{age}} 
107
                  <strong>Email</strong> {{email}}
108
                  <strong>Phone</strong> +91-{{phone}}
109
    <h2>Skills</h2>
110
111
                  <l
112
                      {{skill1}}
113
                      {{skill2}}
114
                      {{skill3}}
                      {{skill4}}
115
116
                      {{skill5}}
                  117
                  <h2>Education</h2>
118
                  <h3>{{degree1}} </h3>
119
                  {{college1}}
120
                  {{year1}}
121
                  <hr>>
122
                  <h3>{{degree2}} </h3>
123
                  {{college2}}
124
                  Year : {{year2}}
125
                  <h3>{{degre3}} </h3>
126
                  {{college3}}
127
128
                   Year : {{year3}}
129
                  <h2>Languages</h2>
                  <u1>
130
131
                      {{lang1}}
                      {{lang2}}
132
                      {{lang3}}
133
                  134
               </div>
135
```

```
<div class="right">
                   <h2>Projects</h2>
137
138
                   <h3>{{project1}}</h3>
139
                   <strong>Duration :</strong> {{durat1}}}
    <u1>
140
141
                       {{desc1}}
142
                   <br>
143
                   <h3>{{project2}}</h3>
144
                   <strong>Duration :</strong> {{durat2}}}
145
    <u1>
146
                       {{desc2}}
147
148
                   <h2>Work Experinece</h2>
149
                   <h3>{{company1}}</h3>
150
                   <strong>Position:</strong> {{post1}}}
151
    152
                   <strong>Duration :</strong>
    {{duration1}}
153
                   <u1>
                       {{lin11}}
154
155
                   <br><br><br>>
156
                   <h3>{{company2}}</h3>
157
                   <strong>Position: </strong>{{post2}}
158
    159
                   <strong>Duration</strong> {{duration2}}
    <u1>
160
                       {{lin21}}
161
                   162
                   <h2>Achievements :</h2>
163
164
                   <l
165
                       {{ach1}}
166
                       {{ach2}}
167
                       {{ach3}}
                   168
               </div>
169
           </div>
170
        </div>
171
        <button onclick="generatePDF('mn')" type="button"</pre>
172
    class="btn1">Download PDF</button>
```

```
<script
    src="https://cdnjs.cloudflare.com/ajax/libs/html2pdf.js/0.
    9.3/html2pdf.bundle.min.js"></script>
174
    src="https://cdnjs.cloudflare.com/ajax/libs/mammoth/1.4.0/
    mammoth.browser.min.js"></script>
         <script type="text/javascript">
175
             function generatePDF(containerId) {
176
                 const container =
177
    document.getElementById(containerId);
178
                 // Download as PDF
179
180
                 const pdfOptions = {
                     margin: 10,
181
                      filename: 'resume.pdf',
182
                      image: { type: 'jpeg', quality: 0.98 },
183
                     html2canvas: { scale: 2 },
184
                      jsPDF: { unit: 'mm', format: 'a4',
185
    orientation: 'portrait' }
186
                 };
187
188
                 html2pdf()
189
                      .from(container)
                      .set(pdfOptions)
190
191
                      .outputPdf()
                      .then(function (pdf) {
192
                          const pdfBlob = new Blob([pdf], {
193
    type: 'application/pdf' });
                          const pdfUrl =
194
    URL.createObjectURL(pdfBlob);
                          const pdfLink =
195
    document.createElement('a');
                          pdfLink.href = pdfUrl;
196
                          pdfLink.download = 'resume.pdf';
197
                          pdfLink.click();
198
199
                      });
200
201
         </script>
202
203
    </body>
204
205
   </html>
```

urls.py

The provided code is configuring URL patterns for a Django web application. It includes mappings for two URLs: the root URL, which is associated with the 'home' view rendering the website's homepage, and a '/resume/' URL, which maps to the 'gen_resume' view for generating a resume. These URL patterns make up the application's routing, allowing users to access specific views based on the URLs they visit. The 'name' parameter provides a way to reference these patterns throughout the application.

Python

```
from django.contrib import admin
from django.urls import path
from home.views import *

urlpatterns = [
path('', home, name = 'home'),
path('resume/', gen_resume, name = 'resume'),
path("admin/", admin.site.urls),
]
```

Deployement of the Project

Run these commands to apply the migrations:

```
python3 manage.py makemigrations
python3 manage.py migrate
```

Run the server with the help of following command:

```
python3 manage.py runserver
```

Output

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