

Calculate CGPA using Python Django

Last Updated: 06 Feb, 2024

This article demonstrates how to build a CGPA calculator and display the results using Django. Initially, we establish a login system to ensure security. Users must first register for an account and then log in to access the calculator. After logging in, users can input their subject names, CGPA, and credits, essential information typically obtained from their college. Once all data is entered, clicking on the "Generate Result" button will display the result, which can be printed in PDF format.

What is CGPA Calculator?

A CGPA (Cumulative Grade Point Average) calculator is a tool used to determine a student's overall academic performance based on the grades obtained in various courses or subjects over a specific period. It assigns a numerical value, known as the Grade Point, to each grade received, and the CGPA is calculated as the average of these grade points.

Calculate College CGPA and Print Results using Django

To install Django follow these steps.

Starting the Project Folder

To start the project use this command

django-admin startproject core
cd core

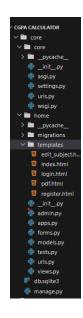
To start the app use this command

python manage.py startapp home

Now add this app to the 'settings.py'

```
INSTALLED APPS = [
        "django.contrib.admin",
        "django.contrib.auth",
        "django.contrib.contenttypes",
        "django.contrib.sessions",
        "django.contrib.messages",
        "django.contrib.staticfiles",
        "home",
Django
              Model
                    Template
                                    Jinja Python SQLite
                                                                              Interview Ques
       Views
                              Forms
                                                         Flask
                                                               Json
                                                                     Postman
```

File Structure



Setting Necessary Files

models.py: This Django model, named "Subject," includes fields for user (linked to the built-in User model), subject name, grade (with predefined choices), and credit. The `__str__` method customizes the string representation of an instance.

```
Python3

1 from django.db import models

2 from django.contrib.auth.models import User

3
```

```
class Subject(models.Model):
       user = models.ForeignKey(User,
5
   on delete=models.SET NULL, null=True, blank=True)
       name = models.CharField(max length=255)
       grade = models.CharField(max length=2, choices=[('S',
   'S'), ('A', 'A'), ('B', 'B'), ('C', 'C'), ('D', 'D'), ('F',
   'F')])
       credit = models.PositiveIntegerField()
8
9
       def __str__(self):
10
            return f"{self.name} - Grade: {self.grade}, Credit:
11
   {self.credit}"
```

views.py: In below code, Django application includes views for a CGPA calculator, subject editing, subject deletion, and a result view. It also has user authentication functionalities, including a login page, registration page, and a logout function. The CGPA calculator computes the CGPA based on subjects and their grades, while the result view displays the result in a PDF template. User authentication is implemented with login, registration, and logout functionalities. Error messages are displayed for incorrect login attempts or registration issues.

Python3

```
Q
      1 from django.shortcuts import render, redirect,
         get_object_or_404
      2 from .models import Subject
      3 from .forms import SubjectForm
      4 from django.http import HttpResponse, JsonResponse,
        HttpResponseRedirect
      5 from django.contrib import messages
      6 from django.contrib.auth import login, authenticate
      7 from django.contrib.auth.decorators import login required
      8 from django.contrib.auth.models import User
      9 from django.contrib.auth import logout
     10
     11 # Mapping of letter grades to numeric values
     12 GRADE POINTS = {'A': 9, 'S': 10, 'B': 8, 'C': 7, 'D': 6,
     13 @login_required(login_url='/login/')
     14 def cgpa calculator(request):
```

```
subjects = Subject.objects.all()
        form = SubjectForm()
16
17
18
        if request.method == 'POST':
            form = SubjectForm(request.POST)
19
            if form.is valid():
20
                form.save()
21
                return redirect('cgpa calculator')
22
23
        # Calculate CGPA
24
        total credits = 0
25
        total grade points = 0
26
27
        for subject in subjects:
28
            total credits += subject.credit
29
            total grade points += subject.credit *
30
   GRADE_POINTS.get(subject.grade, 0)
31
        if total credits != 0:
32
            cgpa = total grade points / total credits
33
        else:
34
            cgpa = 0
35
36
        context = {
37
            'subjects': subjects,
38
            'form': form,
39
            'cgpa': cgpa,
40
41
        }
42
        return render(request, 'index.html', context)
43
44
45
   @login_required(login_url='/login/')
   def edit_subject(request, subject_id):
47
        subject = get object or 404(Subject, id=subject id)
48
49
        if request.method == 'POST':
50
            form = SubjectForm(request.POST, instance=subject)
51
            if form.is valid():
52
                form.save()
53
                return redirect('cgpa calculator')
54
        else:
55
            form = SubjectForm(instance=subject)
56
```

```
58
        context = {
            'form': form,
59
            'subject id': subject id,
60
        }
61
62
        return render(request, 'edit_subject.html', context)
63
64
   @login required(login url='/login/')
65
   def delete subject(request, subject id):
66
        subject = get object or 404(Subject, id=subject id)
67
        subject.delete()
68
        return redirect('cgpa_calculator')
69
70
71
   @login_required(login_url='/login/')
72
   def result(request):
73
        subjects = Subject.objects.all()
74
        form = SubjectForm()
75
76
77
        if request.method == 'POST':
78
            form = SubjectForm(request.POST)
            if form.is_valid():
79
                form.save()
80
                return redirect('cgpa calculator')
81
82
        # Calculate CGPA
83
        total credits = 0
84
        total grade points = 0
85
86
        for subject in subjects:
87
            total credits += subject.credit
88
            total grade points += subject.credit *
    GRADE_POINTS.get(subject.grade, 0)
90
        if total credits != 0:
91
            cgpa = total grade points / total credits
92
93
        else:
94
            cgpa = 0
95
        context = {
96
            'subjects': subjects,
97
            'form': form,
98
```

```
'cgpa': cgpa,
         }
100
101
102
         return render(request, 'pdf.html', context)
103
104
    #login page for user
105
    def login page(request):
106
         if request.method == "POST":
107
             try:
108
                 username = request.POST.get('username')
109
                 password = request.POST.get('password')
110
                 user obj =
111
    User.objects.filter(username=username)
                 if not user_obj.exists():
112
                     messages.error(request, "Username not
113
    found")
                      return redirect('/login/')
114
                 user_obj = authenticate(username=username,
115
    password=password)
                 if user obj:
116
                     login(request, user obj)
117
                      return redirect('receipts')
118
                 messages.error(request, "Wrong Password")
119
                 return redirect('/login/')
120
             except Exception as e:
121
                 messages.error(request, "Something went
122
    wrong")
                 return redirect('/register/')
123
         return render(request, "login.html")
124
125
126
    #register page for user
127
    def register_page(request):
128
         if request.method == "POST":
129
130
             try:
                 username = request.POST.get('username')
131
                 password = request.POST.get('password')
132
                 user obj =
133
    User.objects.filter(username=username)
134
                 if user obj.exists():
                     messages.error(request, "Username is
135
    taken")
                      return redirect('/register/')
136
```

```
user obj =
    User.objects.create(username=username)
                 user_obj.set_password(password)
138
                 user obj.save()
139
140
                 messages.success(request, "Account created")
                 return redirect('/login')
141
             except Exception as e:
142
                 messages.error(request, "Something went
143
    wrong")
                 return redirect('/register')
144
        return render(request, "register.html")
145
146
147
    #logout function
148
149 def custom logout(request):
        logout(request)
150
        return redirect('login')
151
```

forms.py: The "SubjectForm" in Django is a ModelForm linked to the "Subject" model. It includes fields for subject name, credit, and grade, enabling easy creation and modification of Subject instances through user interfaces.

Python3

```
1 from django import forms
2 from .models import Subject
3
4 class SubjectForm(forms.ModelForm):
5     class Meta:
6     model = Subject
7     fields = ['name','credit', 'grade']
```

project/urls.py: The main `urls.py` file in this Django project includes paths for the admin interface and includes URLs from the 'home.urls' module using the 'include' function, promoting modularity and organization in the project's URL configuration.

Python3

```
1 from django.contrib import admin
```

```
from django.urls import include, path

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

path('', include('home.urls')),

]
```

app/urls.py: The 'urls.py' file in the 'home' app of this Django project includes paths for views like 'cgpa_calculator', 'edit_subject', 'delete_subject', 'result', 'login_page', 'custom_logout', and 'register_page'. These paths correspond to various functionalities, defining the URL patterns for navigation within the application.

Python3

```
Q
      1 from django.urls import path
      2 from .views import *
      3
      4 urlpatterns = [
             path('', cgpa_calculator, name='cgpa_calculator'),
      5
             path('edit/<int:subject_id>/', edit_subject,
         name='edit_subject'),
             path('delete/<int:subject id>/', delete subject,
         name='delete_subject'),
             path('result/', result, name='result'),
      8
      9
             path('login/' , login_page, name='login'),
     10
             path('logout/', custom logout, name="logout"),
     11
             path('register/', register page, name='register'),
     12
     13
     14
     15
         1
```

Creating GUI

login.html: This HTML file implements a simple login form for a CGPA Calculator web application using Bootstrap. It includes fields for username and password, with messages displayed for login outcomes. The form is styled

using Bootstrap classes for a clean and responsive design, and there's a link to the registration page.

```
P
      1 <!doctype html>
      2 <html lang="en">
\triangleright
      3
        <head>
             <!-- Required meta tags -->
      5
              <meta charset="utf-8">
      7
              <meta name="viewport" content="width=device-width,</pre>
         initial-scale=1">
              klink
         href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/
         bootstrap.min.css" rel="stylesheet"
                  integrity="sha384-
         EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmL
         ASjC" crossorigin="anonymous">
              <link rel="stylesheet"</pre>
     10
         href="https://cdnjs.cloudflare.com/ajax/libs/font-
         awesome/6.4.0/css/all.min.css">
              <title>CGPA Calculator</title>
     11
     12
         </head>
     13
         <body>
     14
             <br>
     15
             <br>
     16
             <br>
     17
     18
              <div class="container mt-4 bg-white col-md-3 card</pre>
     19
         shadow p-3 " id="log">
                  <div class="login-form">
     20
                      {% if messages %}
     21
                      {% for message in messages %}
     22
                      <div class="alert alert-success {{ message.tags</pre>
     23
         }} mt-4" role="alert">
     24
                           {{ message }}
                      </div>
     25
                      {% endfor %}
     26
                      {% endif %}
     27
                      <form action="" method="post">
     28
                           {% csrf_token %}
     29
```

```
<h4 class="text-center" style="font-family:</pre>
   'Times New Roman', Times, serif;"> Login </h4>
                   <div class="form-group">
31
                        <input type="text" class="form-control"</pre>
32
   name="username" placeholder="Username" required
                            style="background-color: #fff;
33
   border: 1px solid #ddd; border-radius: 5px; padding: 10px;">
                   </div>
34
                   <div class="form-group mt-2">
35
                        <input type="password" class="form-</pre>
36
   control" name="password" placeholder="Password" required
                            style="background-color: #fff;
37
   border: 1px solid #ddd; border-radius: 5px; padding: 10px;">
                   </div>
38
                   <div class="form-group mt-2">
39
                        <button class="btn btn-light btn-block"</pre>
40
   style="margin-left: 138px;border: 0.5px solid
   black">Login</putton>
                    </div>
41
                   <br>
42
43
               </form>
               <a</pre>
44
   href="{% url 'register' %}" style="color: #007bff;">Create
   an
45
                        Account.</a>
           </div>
46
       </div>
47
48
49
   </body>
50
  </html>
51
```

register.html: This HTML file implements a registration form for a CGPA Calculator web application using Bootstrap. It includes fields for username and password, with messages displayed for registration outcomes. The form is styled using Bootstrap classes for a clean and responsive design, and there's a link to the login page for existing users. The "Register" button has a style attribute for additional customization.

HTML

9

1 <!doctype html>

```
<html lang="en">
3
4
   <head>
5
        <!-- Required meta tags -->
        <meta charset="utf-8">
6
        <meta name="viewport" content="width=device-width,</pre>
   initial-scale=1">
        klink
8
   href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/
   bootstrap.min.css" rel="stylesheet"
            integrity="sha384-
9
   EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmL
   ASjC" crossorigin="anonymous">
        <link rel="stylesheet"</pre>
10
   href="https://cdnjs.cloudflare.com/ajax/libs/font-
   awesome/6.4.0/css/all.min.css">
        <title>CGPA Calculator</title>
11
12
   </head>
   <body>
13
14
        <body>
            <br><br><br><br><br><br>
16
            <div class="container mt-4" bg-white mx-auto col-</pre>
17
   md-3 card shadow p-3">
                <div class="login-form">
18
                     {% if messages %}
19
                     {% for message in messages %}
20
                     <div class="alert alert-success {{</pre>
21
   message.tags }}" role="alert" >
22
                         {{ message }}
                     </div>
23
                     {% endfor %}
24
                     {% endif %}
25
                     <form action="" method="post">
26
                         {% csrf token %}
27
28
                         <h4 class="text-center" style="font-
   family: 'Times New Roman', Times, serif;"> Register </h4>
                         <div class="form-group">
29
                             <input type="text" class="form-</pre>
30
   control" name="username" placeholder="Username" required>
                         </div>
31
                         <div class="form-group mt-2">
32
                             <input type="password" class="form-</pre>
33
   control" name="password" placeholder="Password" required>
                         </div>
34
```

```
<div class="form-group mt-2">
                           <button class="btn btn-light btn-</pre>
36
   block" style="margin-left: 117px;border: 0.5px solid
   black">Register
37
                       </div>
                       <br>
38
39
                   </form>
                   <a href="{% url</pre>
40
   'login' %}">Log In </a>
               </div>
41
           </div>
42
43
       </body>
44
45
  </html>
46
```

index.html: This HTML file provides a clean and user-friendly web interface for a CGPA Calculator. It includes a form to add subjects, a table to display existing subjects with their grades and credits, and buttons for editing or deleting subjects. The styling is done using a combination of inline styles and embedded CSS. Additionally, there's a logout button at the bottom for user convenience.

```
O
      1 <!DOCTYPE html>
      2 <html lang="en">
      3 <head>
              <meta charset="UTF-8">
      4
              <meta name="viewport" content="width=device-width,</pre>
         initial-scale=1.0">
              <title>CGPA Calculator</title>
      6
      7
         </head>
         <style>
      8
      9
              body {
                  font-family: Arial, sans-serif;
     10
                  margin: 20px;
     11
     12
     13
             #calculator {
                  max-width: 600px;
     14
                  margin: 0 auto;
     15
```

```
padding: 20px;
            border: 1px solid #ccc;
17
            border-radius: 5px;
18
19
        }
20
        h1{
21
            color: #333;
22
            text-align: center;
23
            font-family: 'Times New Roman', Times, serif;
24
        }
25
        form {
26
            margin-bottom: 20px;
27
28
        button {
29
            padding: 10px;
30
            color: black;
31
            border: none;
32
            font-size: 13px;
33
            font-weight: bold;
34
35
            border-radius: 3px;
            cursor: pointer;
36
37
        }
        table {
38
            width: 100%;
39
            border-collapse: collapse;
40
            margin-top: 20px;
41
42
        th, td {
43
            border: 1px solid #ddd;
44
            padding: 10px;
45
            text-align: left;
46
        }
47
        th {
48
            background-color: #d9dad9d7;
49
            color: rgb(97, 93, 93);
50
51
52
        #cgpa {
            font-weight: bold;
53
54
        }
        a{
55
            color: black;
56
        }
57
    </style>
58
```

```
<body>
  <div id="calculator">
60
61
      <h1 style="color: green;">GeeksforGeeks</h1>
      <h2 style="font-family: 'Times New Roman', Times, serif;</pre>
62
  text-align:center;">CGPA Calculator</h2>
      <br>
63
      <form method="post" action="{% url 'cgpa_calculator'</pre>
64
  %}">
         {% csrf token %}
65
       {{form.as_p}}
66
         <button type="submit">Add Subject
67
        <button> <a href="{% url 'result' %}">Generate
  Result</a></button>
      </form>
69
     <br>
70
     71
         <thead>
72
73
         Subject
74
75
            Grade
            Credit
76
            Actions
77
         78
79
         </thead>
         80
         {% for subject in subjects %}
81
            >
82
               83
  Times, serif;">{{ subject.name }}
               84
  85
  >
86
87
                <button><a href="{% url 'edit_subject'</pre>
  subject.id %}">Edit</a></button>
                <button><a href="{% url 'delete_subject'</pre>
88
  subject.id %}">Delete</a></button>
               89
            90
         {% endfor %}
91
         92
     93
  </div>
94
  <br>
```

edit_subject.html: This HTML file offers a compact and centered layout for editing a subject. It includes a form with input fields, a "Save Changes" button linked to the 'edit_subject' view, and a "Cancel" button redirecting to the 'cgpa_calculator' view. Styling is kept minimal for a clean and focused editing experience.

```
Q
      1 <!DOCTYPE html>
      2 <html lang="en">
      3
        <head>
      4
              <meta charset="UTF-8">
      5
              <meta name="viewport" content="width=device-width,</pre>
         initial-scale=1.0">
              <title>Document</title>
         </head>
      9
     10
         <body>
              <style>
     11
                  body {
                      font-family: Arial, sans-serif;
     13
                      margin: 20px;
     14
                  }
     15
     16
                  #calculator {
     17
     18
                      max-width: 400px;
                      margin: 0 auto;
     19
     20
                      padding: 20px;
                      border: 1px solid #ccc;
     21
                      border-radius: 5px;
     22
     23
                  }
     24
                  h2 {
     25
                      font-family: 'Times New Roman', Times, serif;
     26
     27
```

```
button {
29
                 padding: 10px;
30
                 color: black;
31
                 border: none;
32
                 font-size: 13px;
33
                 font-weight: bold;
34
                 border-radius: 3px;
35
                 cursor: pointer;
36
             }
37
38
             a {
39
                 color: black;
40
41
        </style>
42
43
44
        <div id="calculator">
45
             <br>
46
47
48
             <h2 style="text-align: center;">Edit Subject</h2>
             <br>
49
             <form method="post" action="{% url 'edit_subject'</pre>
    subject id=subject id %}">
                 {% csrf_token %}
51
                 {{ form.as_p }}
52
53
54
                 <button type="submit">Save Changes</putton>
             </form>
55
             <br>
56
             <button><a href="{% url 'cgpa_calculator'</pre>
57
    %}">Cancel</a></button>
58
        </div>
59
    </body>
60
61
62
    </html>
```

pdf.html: This HTML file represents a CGPA Calculator result page with a table displaying subjects, grades, and credits. It calculates and displays the CGPA. The "Generate Receipt" button triggers a JavaScript function to copy the content of the 'calculator' div, open a new window, and print the receipt. The

styling is clean, and the jsPDF library is included for potential PDF generation, although not currently used in the provided code.

```
Ф
      1 <!DOCTYPE html>
      2 <html lang="en">
3
        <head>
              <meta charset="UTF-8">
      5
              <meta name="viewport" content="width=device-width,</pre>
         initial-scale=1.0">
              <title>CGPA Calculator</title>
      7
              <!-- Add jsPDF library -->
              <script
         src="https://cdnjs.cloudflare.com/ajax/libs/jspdf/2.4.0/jspd
         f.umd.min.js"></script>
         </head>
     10
         <style>
     11
     12
              body {
                  font-family: Arial, sans-serif;
     13
     14
                  margin: 20px;
     15
              }
              .calculator {
     16
                  max-width: 600px;
     17
                  margin: 0 auto;
     18
                  padding: 20px;
     19
                  border: 1px solid #ccc;
     20
                  border-radius: 5px;
     21
              }
     22
     23
             form {
     24
                  margin-bottom: 20px;
     25
              }
     26
     27
              table {
     28
                  width: 100%;
     29
                  border-collapse: collapse;
     30
     31
                  margin-top: 20px;
     32
              }
     33
              th,
     34
             td {
     35
```

```
border: 1px solid #ddd;
           padding: 10px;
37
           text-align: left;
38
39
       }
40
       th {
41
           color: rgb(97, 93, 93);
42
       }
43
44
       #cgpa {
45
           font-weight: bold;
46
       }
47
48
       button {
49
           padding: 10px;
50
           color: black;
51
           border: none;
52
           font-size: 13px;
53
           font-weight: bold;
54
55
           border-radius: 3px;
           cursor: pointer;
56
           margin-left:655px
57
       }
58
59
   </style>
   <body>
60
       <div id="mn" class="calculator" >
61
           <img style="width: 130px; height:130px; margin-</pre>
62
   left:230px"
   src="https://i.ibb.co/JkyXTWp/1696184885877pp.jpg" alt="">
           <br>
63
           <br>
64
           65
                <thead>
66
                    >
67
                        Subject
68
                        Grade
69
                        Credit
70
71
                    </thead>
72
                73
                    {% for subject in subjects %}
74
                    75
                        <td style="font-family: 'Times New
76
   Roman', Times, serif;">{{ subject.name }}
```

```
<td style="font-family: 'Times New
   Roman', Times, serif;">{{ subject.grade }}</rr>
                        <td style="font-family: 'Times New
78
   Roman', Times, serif;">{{ subject.credit }}
79
                    {% endfor %}
80
                81
            82
            <h3 style="font-family: 'Times New Roman', Times,</pre>
83
   serif;">CGPA: <span id="cgpa">{{cgpa}}</span></h3>
       </div>
84
85
       <br>
       <button onclick="myfun('mn')" type="button" class="btn</pre>
86
   btn-success btn1 ">Generate Receipt</button>
       <script type="text/javascript">
87
            function myfun(pa) {
88
                let d = document.getElementById(pa).innerHTML;
89
                document.body.innerHTML = d;
90
               window.print();
91
92
            }
93
       </script>
  </body>
94
  </html>
```

Deployment of the Project

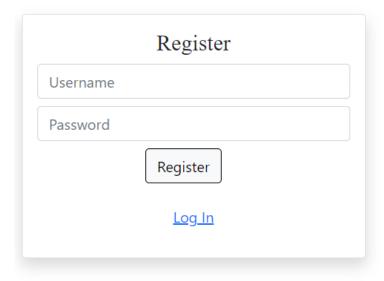
Run these commands to apply the migrations:

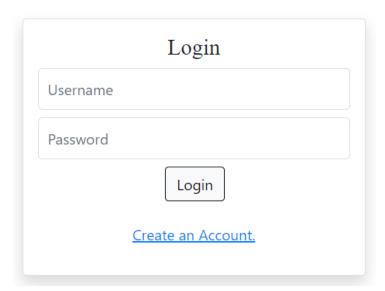
```
python3 manage.py makemigrations
python3 manage.py migrate
```

Run the server with the help of following command:

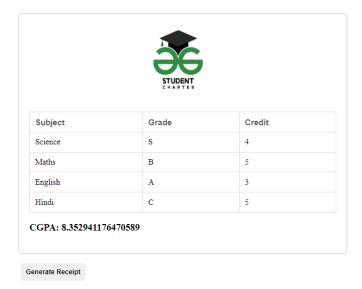
```
python3 manage.py runserver
```

Output:









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