```
Django settings for mark_registration_system project.
Generated by 'django-admin startproject' using Django 5.1.3.
For more information on this file, see
For the full list of settings and their values, see
https://docs.djangoproject.com/en/5.1/ref/settings/
from pathlib import Path
import os
# Build paths inside the project like this: BASE DIR / 'subdir'.
BASE_DIR = Path(__file__).resolve().parent.parent
# Quick-start development settings - unsuitable for production
# SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = 'django-insecure-7*6f(@uzvw#paz%1ujdjlx-uu#)%e+90v4=j2g$^*@)-
qw3(on'
# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True
ALLOWED_HOSTS = []
# Application definition
INSTALLED APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
```

```
django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'marks'.
MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
ROOT_URLCONF = 'mark_registration_system.urls'
TEMPLATES = [
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
            BASE DIR / 'templates', # If you want to store global templates in
a folder at the project level
        ],
        'APP DIRS': True, # Make sure this is set to True to allow Django to
search in app-specific templates
        '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',
            ],
        },
   },
]
WSGI APPLICATION = 'mark registration system.wsgi.application'
```

```
# Database
# https://docs.djangoproject.com/en/5.1/ref/settings/#databases
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': BASE_DIR / 'db.sqlite3',
# Password validation
# https://docs.djangoproject.com/en/5.1/ref/settings/#auth-password-validators
AUTH_PASSWORD_VALIDATORS = [
        'NAME':
'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
    },
        'NAME':
'django.contrib.auth.password validation.MinimumLengthValidator',
    },
        'NAME':
'django.contrib.auth.password_validation.CommonPasswordValidator',
    },
        'NAME':
'django.contrib.auth.password_validation.NumericPasswordValidator',
    },
]
# Internationalization
# https://docs.djangoproject.com/en/5.1/topics/i18n/
LANGUAGE CODE = 'en-us'
TIME_ZONE = 'UTC'
USE_I18N = True
```

```
# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/5.1/howto/static-files/

STATIC_URL = 'static/'

# Default primary key field type
# https://docs.djangoproject.com/en/5.1/ref/settings/#default-auto-field

DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'

# Define the directory where media files will be saved
MEDIA_ROOT = os.path.join(BASE_DIR, 'media')

# Define the URL path to access media files
MEDIA_URL = '/media/'
```

> urls.py

```
URL configuration for mark_registration_system project.

The `urlpatterns` list routes URLs to views. For more information please see:
    https://docs.djangoproject.com/en/5.1/topics/http/urls/

Examples:
Function views
    1. Add an import: from my_app import views
    2. Add a URL to urlpatterns: path('', views.home, name='home')

Class-based views
    1. Add an import: from other_app.views import Home
    2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')

Including another URLconf
    1. Import the include() function: from django.urls import include, path
    2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))

"""

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

```
urlpatterns = [
   path('admin/', admin.site.urls),
   path('', include('marks.urls')), # Include the marks app URLs
]
```

- > templates > marks
- > home.html

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>{% block title %}Marks Registration System{% endblock %}</title>
    <!-- Link to Bootstrap CSS -->
    link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
rel="stylesheet">
    <!-- Custom Styles -->
   <style>
        /* Navigation link hover effect */
        .nav-link:hover {
            color: #0056b3; /* Darker blue on hover */
            text-decoration: underline; /* Adds underline on hover */
       /* Button hover effect */
        .btn:hover {
            background-color: #004085; /* Change background color on hover */
            color: #fff; /* Change text color on hover */
   </style>
</head>
<body>
   <!-- Header Section -->
   <header class="bg-primary text-white text-center py-3">
        <h1>Welcome to the Marks Registration System</h1>
    </header>
```

```
<!-- Navigation Bar -->
   <nav class="my-4">
      <a class="nav-link text-primary" href="{% url</pre>
'home' %}">Home</a>
         <a class="nav-link text-primary" href="{% url</pre>
'input_marks' %}">Input Marks</a>
         <a class="nav-link text-primary" href="{% url</pre>
'update_marks' %}">Update Marks</a>
         <a class="nav-link text-primary" href="{% url</pre>
'view_marks' %}">View Marks</a>
         <a class="nav-link text-primary" href="{% url</pre>
'visualization' %}">Visualization</a>
         </nav>
   <!-- Main Content Section -->
   <main class="container text-center">
      {% block content %}
      Manage student marks efficiently and visualize their
performance.
      <div class="row justify-content-center">
         <!-- Card for Number of Students -->
         <div class="col-md-4">
             <div class="card m-2">
                <div class="card-body">
                   <h5 class="card-title">No. of Students</h5>
                   {{ student_count }}
                </div>
             </div>
         </div>
```

```
<!-- Card for Number of Modules -->
           <div class="col-md-4">
               <div class="card m-2">
                   <div class="card-body">
                      <h5 class="card-title">No. of Modules</h5>
                      {{ module_count }}
                   </div>
               </div>
           </div>
       </div>
       {% endblock %}
   </main>
   <!-- Link to Bootstrap JS -->
   <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.
</body>
</html>
```

> input marks.html

```
{{ form.module code }}
    {% if form.module_code.errors %}
        <div class="text-danger">{{ form.module_code.errors }}</div>
    {% endif %}
</div>
<div class="mb-3">
    {{ form.module_name.label_tag }}
    {{ form.module_name }}
    {% if form.module_name.errors %}
        <div class="text-danger">{{ form.module_name.errors }}</div>
    {% endif %}
</div>
<div class="mb-3">
    {{ form.cw1_marks.label_tag }}
    {{ form.cw1_marks }}
    {% if form.cw1 marks.errors %}
        <div class="text-danger">{{ form.cw1_marks.errors }}</div>
    {% endif %}
</div>
<div class="mb-3">
    {{ form.cw2_marks.label_tag }}
    {{ form.cw2 marks }}
    {% if form.cw2_marks.errors %}
        <div class="text-danger">{{ form.cw2_marks.errors }}</div>
    {% endif %}
</div>
<div class="mb-3">
    {{ form.cw3_marks.label_tag }}
    {{ form.cw3_marks }}
    {% if form.cw3 marks.errors %}
        <div class="text-danger">{{ form.cw3_marks.errors }}</div>
    {% endif %}
</div>
<div class="mb-3">
    {{ form.student_id.label_tag }}
    {{ form.student id }}
    {% if form.student_id.errors %}
        <div class="text-danger">{{ form.student_id.errors }}</div>
    {% endif %}
</div>
<div class="mb-3">
    {{ form.student_name.label_tag }}
    {{ form.student_name }}
    {% if form.student_name.errors %}
```

```
<div class="text-danger">{{ form.student_name.errors }}</div>
       {% endif %}
    </div>
    <div class="mb-3">
        {{ form.gender.label_tag }}
       {{ form.gender }}
       {% if form.gender.errors %}
           <div class="text-danger">{{ form.gender.errors }}</div>
        {% endif %}
   </div>
    <div class="mb-3">
       {{ form.date_of_entry.label_tag }}
       {{ form.date of entry }}
       {% if form.date_of_entry.errors %}
           <div class="text-danger">{{ form.date_of_entry.errors }}</div>
        {% endif %}
    </div>
    <button type="submit" class="btn btn-primary">Submit
    <button type="reset" class="btn btn-secondary">Reset</button>
</form>
{% endblock %}
```

> update marks.html

```
<input</pre>
         type="text"
         name="module code"
         id="module code"
         class="form-control"
         placeholder="Enter module code"
         value="{{ module code|default:'' }}"
   </div>
   <button type="submit" class="btn btn-primary">View</button>
</form>
{% if records %}
   <h3>Student Records for Module Code: {{ module code }}</h3>
   <thead>
         Student ID
            Student Name
            CW1
            CW2
            CW3
            Total
            Actions
         </thead>
      {% for record in records %}
                {{ record.student_id }}
                {{ record.student_name }}
                {{ record.cw1_marks }}
                {{ record.cw2_marks }}
                {{ record.cw3_marks }}
                {{ record.total marks }} <!-- Display the
dynamically calculated total marks -->
href="?module_code={{ module_code }}&student_id={{ record.id }}" class="btn
btn-warning">Modify</a>
                {% endfor %}
```

```
{% if student id %}
        <h4>Edit Marks for Student ID: {{ student_id }}</h4>
        <form method="post" action="">
            {% csrf token %}
            <div class="mb-3">
                <label for="cw1_marks" class="form-label">Coursework 1
Marks:</label>
                <input type="number" name="cw1_marks" class="form-control"</pre>
value="{{ records.first.cw1_marks }}">
            </div>
            <div class="mb-3">
                <label for="cw2 marks" class="form-label">Coursework 2
Marks:</label>
                <input type="number" name="cw2_marks" class="form-control"</pre>
value="{{ records.first.cw2_marks }}">
            </div>
            <div class="mb-3">
                <label for="cw3_marks" class="form-label">Coursework 3
Marks:</label>
                <input type="number" name="cw3_marks" class="form-control"</pre>
value="{{ records.first.cw3_marks }}">
            <button type="submit" class="btn btn-primary">Update Marks</button>
        </form>
    {% endif %}
{% elif module_code %}
    No records found for module code "{{ module code }}".
{% endif %}
{% endblock %}
```

> view marks.html

```
<input</pre>
         type="text"
         name="module code"
         id="module code"
         class="form-control"
         placeholder="Enter module code"
         value="{{ module code|default:'' }}"
   </div>
   <button type="submit" class="btn btn-primary">View</button>
</form>
{% if records %}
   Student ID
            Student Name
            CW1
            CW2
            CW3
            Total
         </thead>
      {% for record in records %}
            {{ record.student_id }}
               {{ record.student name }}
               {{ record.cw1_marks }}
               {{ record.cw2_marks }}
               {{ record.cw3_marks }}
{{ record.cw1_marks|add:record.cw2_marks|add:record.cw3_marks }}
         {% endfor %}
      {% elif module_code %}
   No records found for module code "{{ module_code }}".
{% endif %}
{% endblock %}
```

> visualization.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Visualizations</title>
    <style>
        body {
            display: flex;
            flex-direction: column;
            align-items: center;
            justify-content: center;
            min-height: 100vh;
            margin: 0;
            font-family: Arial, sans-serif;
            text-align: center; /* Center-align text */
        h1, h2 {
            margin: 10px 0;
        img {
            max-width: 80%; /* Make charts responsive */
            height: auto;
            margin: 20px 0;
    </style>
</head>
<body>
    <h1>Data Visualizations</h1>
    {% if charts.pie_chart %}
        <h2>Pie Chart: Marks Distribution</h2>
        <img src="data:image/png;base64,{{ charts.pie_chart }}" alt="Pie</pre>
Chart">
    {% endif %}
    {% if charts.bar_chart %}
```

> apps.py

```
from django.apps import AppConfig

class MarksConfig(AppConfig):
    default_auto_field = 'django.db.models.BigAutoField'
    name = 'marks'
```

```
class MarkEntryForm(forms.Form):
    module_code = forms.CharField(max_length=20, label="Module Code")
    module_name = forms.CharField(max_length=100, label="Module Name")
    cw1_marks = forms.IntegerField(label="Coursework 1 Marks")
    cw2_marks = forms.IntegerField(label="Coursework 2 Marks")
    cw3_marks = forms.IntegerField(label="Coursework 3 Marks")
    student_id = forms.CharField(max_length=20, label="Student ID")
    student_name = forms.CharField(max_length=100, label="Student Name")
    gender = forms.ChoiceField(choices=[('M', 'Male'), ('F', 'Female')],
label="Gender")
    date_of_entry = forms.DateField(widget=forms.DateInput(attrs={'type': 'date'}), label="Date of Entry")
```

```
#Ensure that coursework marks are within a valid range (e.g., 0-100).
    def clean cw1 marks(self):
        cw1 = self.cleaned_data.get('cw1_marks')
        if cw1 < 0 or cw1 > 100:
            raise forms.ValidationError("Coursework 1 Marks must be between 0
and 100.")
        return cw1
    def clean cw2 marks(self):
        cw2 = self.cleaned_data.get('cw2_marks')
        if cw2 < 0 or cw2 > 100:
            raise forms.ValidationError("Coursework 2 Marks must be between 0
and 100.")
        return cw2
    def clean cw3 marks(self):
        cw3 = self.cleaned_data.get('cw3_marks')
        if cw3 < 0 or cw3 > 100:
            raise forms.ValidationError("Coursework 3 Marks must be between 0
and 100.")
        return cw3
```

> models.py

```
from django.db import models

# Create your models here.

class Marks(models.Model):
    module_code = models.CharField(max_length=20)
    module_name = models.CharField(max_length=100)
    cw1_marks = models.IntegerField()
    cw2_marks = models.IntegerField()
    cw3_marks = models.IntegerField()
    student_id = models.CharField(max_length=20)
    student_name = models.CharField(max_length=100)
    gender = models.CharField(max_length=1, choices=[('M', 'Male'), ('F', 'Female')])
    date_of_entry = models.DateField()
```

```
def __str__(self):
    return f"{self.student_name} - {self.module_code}"
```

> urls.py

```
from django.conf import settings
from django.conf.urls.static import static
from django.urls import path
from . import views

urlpatterns = [
    path('', views.home, name='home'),
    path('input_marks/', views.input_marks, name='input_marks'),
    path('update_marks/', views.update_marks, name='update_marks'),
    path('view_marks/', views.view_marks, name='view_marks'),
    path('visualization/', views.visualization, name='visualization'),
]

# Serve media files in development (not for production use)
if settings.DEBUG:
    urlpatterns += static(settings.MEDIA_URL,
document_root=settings.MEDIA_ROOT)
```

> views.py

```
import csv
import os
from django.shortcuts import render, redirect, get_object_or_404
from django.contrib import messages # Import messages
from .forms import MarkEntryForm
from .models import Marks # Import the Marks model
from django.conf import settings
from django.db.models import Sum
import matplotlib.pyplot as plt
from io import BytesIO
import base64
import pandas as pd
import matplotlib
```

```
matplotlib.use('Agg') # Use a non-GUI backend
# Helper function to save data to a CSV file
def save_to_csv():
    csv_file = os.path.join(settings.MEDIA_ROOT, 'marks_entries.csv') # Save
in media folder
   # Open CSV to rewrite with the updated records
    with open(csv_file, mode='w', newline='') as file:
       writer = csv.writer(file)
       writer.writerow(['Student ID', 'Student Name', 'Module Code', 'Module
Name', 'CW1 Marks', 'CW2 Marks', 'CW3 Marks', 'Total Marks'])
       # Write each record to the CSV (including updated records)
       for mark in Marks.objects.all(): # Fetch all records from the database
            total_marks = mark.cw1_marks + mark.cw2_marks + mark.cw3_marks #
Calculate total marks
            writer.writerow([
                mark.student id,
                mark.student name,
                mark.module code,
                mark.module_name,
                mark.cw1 marks,
                mark.cw2_marks,
                mark.cw3 marks,
               total marks
            ])
# Helper function to generate charts as Base64 strings
def generate chart(plt):
    """Convert a Matplotlib plot to a Base64 image."""
    buf = BytesIO()
    plt.savefig(buf, format='png')
    buf.seek(0)
    image_base64 = base64.b64encode(buf.read()).decode('utf-8')
    buf.close()
    plt.close() # Close the plot to avoid overlapping visuals
    return image base64
# Home page view
def home(request):
   # Fetch counts for records display
```

```
student_count = Marks.objects.values('student_id').distinct().count()
    module_count = Marks.objects.values('module_code').distinct().count()
    context = {
        'student count': student count,
        'module_count': module_count,
    }
    return render(request, 'marks/home.html', context)
# Input marks page view
def input marks(request):
    if request.method == 'POST':
        form = MarkEntryForm(request.POST)
        if form.is_valid():
            # Save form data to the database
            new_mark = Marks.objects.create(
                module code=form.cleaned data['module code'],
                module_name=form.cleaned_data['module_name'],
                cw1_marks=form.cleaned_data['cw1_marks'],
                cw2_marks=form.cleaned_data['cw2_marks'],
                cw3 marks=form.cleaned data['cw3 marks'],
                student_id=form.cleaned_data['student_id'],
                student_name=form.cleaned_data['student_name'],
                gender=form.cleaned data['gender'],
                date_of_entry=form.cleaned_data['date_of_entry'],
            # Save the new entry to CSV
            save_to_csv() # Rewrite the CSV with the latest data
            messages.success(request, 'Marks have been successfully recorded.')
            # Redirect to the same page to display the message and reset the
form
            return redirect('input_marks')
    else:
        form = MarkEntryForm()
    return render(request, 'marks/input_marks.html', {'form': form})
# Update marks page view
def update_marks(request):
    records = None
    module_code = request.GET.get('module_code') # Get module_code from the
query parameter
```

```
student_id = request.GET.get('student_id') # Get student_id if modifying a
specific student's marks
   if request.method == 'POST' and student id:
       # Fetch the student record to update
       student = get object or 404(Marks, id=student id)
       # Update the marks based on the form input
       student.cw1_marks = request.POST.get('cw1_marks')
       student.cw2 marks = request.POST.get('cw2 marks')
       student.cw3_marks = request.POST.get('cw3_marks')
       student.save() # Save the updated record
       # After updating the marks, save the updated data to CSV
       save_to_csv() # Rewrite the entire CSV file with updated records
       messages.success(request, 'Marks updated successfully.')
       return redirect('update_marks') # Redirect back to the same page
   if module code:
       # Fetch all records with the given module code
       records = Marks.objects.filter(module_code=module_code)
       # Calculate the total marks for each record and add it to the record
object
       for record in records:
            record.total_marks = record.cw1_marks + record.cw2_marks +
record.cw3_marks
   return render(request, 'marks/update_marks.html', {'records': records,
'module_code': module_code, 'student_id': student_id})
# View marks page view
def view_marks(request):
   module code = request.GET.get('module code')
   records = None
   if module code:
        records = Marks.objects.filter(module code=module code)
   return render(request, 'marks/view marks.html', {'records': records,
'module_code': module_code})
```

```
custom colors = [
    #'red', 'coral', 'orange', 'gold', 'yellow', 'greenyellow', 'lime',
    'aquamarine', 'turquoise', 'cyan', 'deepskyblue', 'royalblue',
    'blue'#, 'navy', 'blueviolet', 'violet', 'fuchsia', 'deeppink', 'pink'
# Visualization page view
def visualization(request):
   # Fetch data
   marks = Marks.objects.all().values('module_name', 'cw1_marks', 'cw2_marks',
'cw3 marks')
   df = pd.DataFrame(marks)
    charts = {}
   if not df.empty:
        # 1. Pie Chart: Distribution of CW1, CW2, CW3 Marks
       total_cw1 = df['cw1_marks'].sum()
        total cw2 = df['cw2 marks'].sum()
        total_cw3 = df['cw3_marks'].sum()
       plt.figure(figsize=(6, 6))
        plt.pie([total_cw1, total_cw2, total_cw3], labels=['CW1', 'CW2',
'CW3'], autopct='%1.1f%%', startangle=90, colors=custom_colors[1:4]) # Limit
to 3 colors(3CW))
        plt.title('Marks Distribution')
        charts['pie_chart'] = generate_chart(plt)
        # 2. Bar Chart: Average Marks by Module
        avg_marks = df.groupby('module_name')[['cw1_marks', 'cw2_marks',
'cw3 marks']].mean()
        avg_marks.plot(kind='bar', figsize=(9, 7),
color=custom_colors[:len(avg_marks)]) # Limit to the number of bars
        plt.title('Average Marks per Module')
       plt.xlabel('Modules')
       plt.ylabel('Average Marks')
        plt.xticks(rotation=45) # Rotate labels
       plt.tight_layout() # Adjust layout to prevent overlap
        charts['bar_chart'] = generate_chart(plt)
       # 3. Scatter Plot: CW1 vs. CW2 Marks
       plt.figure(figsize=(8, 6))
        plt.scatter(df['cw1_marks'], df['cw2_marks'], alpha=0.7,
color=custom colors[5]) # Use the first color in the list
```

```
plt.title('CW1 vs. CW2 Marks')
    plt.xlabel('CW1 Marks')
    plt.ylabel('CW2 Marks')
    charts['scatter_plot'] = generate_chart(plt)

return render(request, 'marks/visualization.html', {'charts': charts})
```

marks entries.csv

```
Student ID,Student Name,Module Code,Module Name,CW1 Marks,CW2 Marks,CW3
Marks,Total Marks
X1234,Fara Baichoo,A101,ICT,11,27,10,48
X1235,Ajmhul Baichoo,A102,BDA,14,25,35,74
X1236,Haroon Rasheed,A103,DCY,10,28,35,73
X1237,Kavina Narrainen,A104,Python,15,10,20,45
X1238,Seif Al Din,A105,IOT,15,10,25,50
X1239,Shaheen Sobhun,A106,Networking,20,36,15,71
X1244,Aureli Vencatachellum,A107,Soft Skills,15,30,25,70
X1224,Widaad Googoolee,A108,ACCA,20,30,10,60
```

```
> OPEN EDITORS
 STUDENT ... 口口口
 > .venv

∨ mark_registration_system

  mark_registration_system
   > _pycache_
   __init__.py
   asgi.py
   settings.py
   urls.py
   wsgi.py

∨ marks

   > _pycache_
   > migrations

∨ templates\marks

    home.html
    o input_marks.html
    update_marks.html
    view_marks.html
    visualization.html
   __init__.py
   admin.py
   apps.py
   forms.py
   models.py
   tests.py
   urls.py
   views.py

✓ media

   marks_entries.csv
  db.sqlite3
  manage.py
 main.py
PS C:\Users\baich\.vscode\R_django\student mark2> .venv\scripts\activate
(.venv) PS C:\Users\baich\.vscode\R_django\student mark2> cd mark_registration_system
(.venv) PS C:\Users\baich\.vscode\R_django\student mark2\mark_registration_system> py manage.py runserver
Watching for file changes with StatReloader
Performing system checks...
System check identified no issues (0 silenced).
April 20, 2025 - 06:52:36
```

Django version 5.1.3, using settings 'mark_registration_system.settings'

Starting development server at http://127.0.0.1:8000/

Quit the server with CTRL-BREAK.

EXPLORER

Welcome to the Marks Registration System

Home Input Marks Update Marks View Marks Visualization

Manage student marks efficiently and visualize their performance.

No. of Students

8

No. of Modules

8

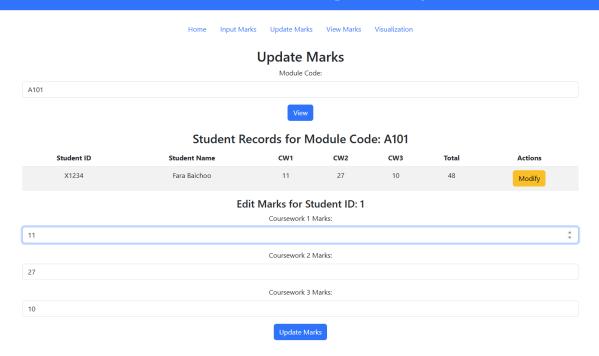
Welcome to the Marks Registration System

Home <u>Input Marks</u> Update Marks View Marks Visualization

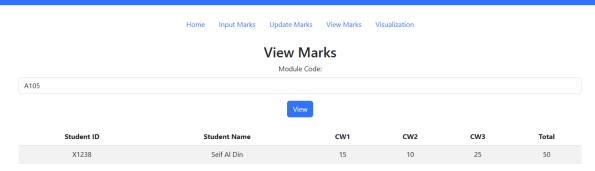
Input Marks

Module Code:
Module Name:
Coursework 1 Marks:
Coursework 2 Marks:
Coursework 3 Marks:
Student ID:
Student Name:
Gender: Male 💌
Date of Entry: dd/mm/yyyy 🖃
Submit Reset

Welcome to the Marks Registration System

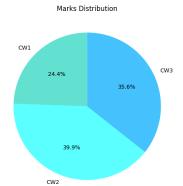


Welcome to the Marks Registration System

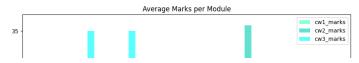


Data Visualizations

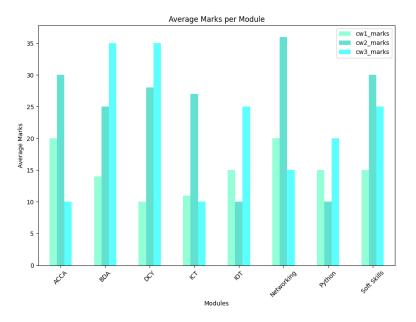
Pie Chart: Marks Distribution



Bar Chart: Average Marks by Module



Bar Chart: Average Marks by Module



Scatter Plot: CW1 vs CW2 Marks

CW1 vs. CW2 Marks

Scatter Plot: CW1 vs CW2 Marks

