

UNIVERSITY INTERNSHIP PORTAL

By

KUNDUM PRAVALLIKA
(Regd. No. 23VV1A1223)

Under the supervision of

MRS.MADHUMITA CHANDA
Department of Information Technology
JNTU-GV CE, Vizianagaram



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA-VIZIANAGARAM
VIZIANAGARAM – 533003
ANDHRA PRADESH, INDIA
MARCH 2025.



Regd.No:23VV1A1223

CERTIFICATE

**Certified that this is a bonafide Record of Practical work done
by Ms Kundum Pravallika Of 2nd B.Tech 2nd Semester Class in
Django Frameworks laboratories College during the year 2024-25**

No of experiments done and certified:13

Head Of The Department

Lecture in Charge

Date:



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Subject Name: DJANGO FRAMEWORK

Subject

Code: R232212SE01

Year: 2025

Regulation: R23

COURSE OUTCOMES

NBA Subject Code	Course Outcomes	
	CO1	Design and build static as well as dynamic web pages and interactive web-based applications .
	CO2	Web development using Django framework.
	CO3	Analyze and create functional website in Django and deploy Django Web Application on Cloud .

CO-PO Mapping

Mapping of Course Outcomes (COs) with Program Outcomes (POs)

Course Outcomes		Program Outcomes (POs)														
		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
	CO1	3	1	3	1	3	1	1	1	2	3	2	1	3	3	2
	CO2	3	2	3	1	3	1	1	1	2	2	2	2	3	3	3
	CO3	2	3	3	3	3	2	2	2	2	3	3	3	3	3	3

Enter correlation levels 1,2 and 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High) If there is no correlation, put “-”

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JNTU-GURAJADA VIZIANAGARAM
COLLEGE OF ENGINEERING VIZIANAGARAM (A)
VIZIANAGARAM**

Dr.Ch. Bindu Madhuri
Asst. Professor & HOD

Email: hod.it@intugvcev.edu.in

1. Name of the Laboratory : Django Framework Lab
2. Name of the Student : K.Pravallika
3. Roll No : 23VV1A1223
4. Class : 2ND B.Tech 2ND Semester
5. Academic Year : 2024-25
6. Name of Experiment : Introduction and Objectives
7. Date of Experiment : 13-12-2024
8. Date of Submission of Report :13-12-2024

S.No	Ability And Activity	Weightage Of Marks	Day To Day Evaluation Score
1	Aim Objective, Tools required	3	
2	Theory, Algorithm and Observations	3	
3	Implementation	3	
4	Schematic diagrams,Architecture, workflow,Flowchart	3	
5	Tidiness of his/her working area, proper maintenance of system during and after experiment.	3	
	Total Score	15	

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1. Introduction

Internships play a crucial role in bridging the gap between academic learning and practical industry experience. The University Internship Portal is designed to help students find suitable internships based on their field of study while enabling companies to post opportunities and recruit potential candidates efficiently.

This portal simplifies the internship application process, ensuring that students and organizations can connect seamlessly. With an intuitive interface, powerful search filters, and a structured application management system, the platform serves as a comprehensive solution for internship placements.

2. Objectives

The **University Internship Portal** is designed with the following objectives:

Primary Objectives

1. **Provide a Centralized Internship Platform** - Create a single platform where students can find and apply for internships based on their field of study.
2. **Simplify the Application Process** – Enable students to search, filter, and apply for internships with ease.
3. **Help Companies Find Suitable Candidates** – Allow companies to post internships and review student applications efficiently.
4. **Enable Efficient Internship Management** - Provide administrators with tools to manage listings, track applications, and generate reports.

Secondary Objectives

5. **Improve Student Employability** – Help students gain practical industry experience by connecting them with relevant internships.
6. **Enhance Transparency in the Selection Process** – Ensure fair and structured application tracking for both students and recruiters.
7. **Ensure a User-Friendly Experience** – Design an intuitive and accessible interface for students, companies, and administrators.



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2. Name of the Student : K.Pravallika
3. Roll No : 23VV1A1223
4. Class : 2ND B.Tech 2ND Semester
5. Academic Year : 2024-25
6. Name of Experiment : Libraries and Technologies
7. Date of Experiment : 13-12-2024
8. Date of Submission of Report :20-12-2024

S.No	Ability And Activity	Weightage Of Marks	Day To Day Evaluation Score
1	Aim Objective, Tools required	3	
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3. Libraries for Webdevelopment

Python has a vast ecosystem of libraries that simplify **web development**. These libraries help with tasks like building web applications, handling databases, managing APIs, and more.

Here's a categorized breakdown of some of the best libraries:

1. Tkinter - GUI Applications

Tkinter is Python's built-in library for creating Graphical User Interfaces (GUIs). It is used for building desktop applications using buttons, labels, text fields, and other widgets.

Easy to learn and suitable for small to medium-sized projects.

Key Features:

- a) Drag-and-drop interface using tools like PAGE (Python Automatic GUI Generator).
- b) Cross-platform (works on Windows, macOS, and Linux).

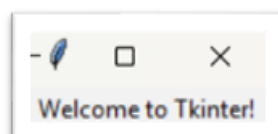
Example: Simple Tkinter App

```
import tkinter as tk

def on_click():
    label.config(text="Hello, " + entry.get())

root = tk.Tk()
root.title("Simple Tkinter App")
label = tk.Label(root, text="Enter your name:")
label.pack()
entry = tk.Entry(root)
entry.pack()
button = tk.Button(root, text="Click Me!", command=on_click)
button.pack()
root.mainloop()
```

Output:-



2. BeautifulSoup4 - Web Scraping

BeautifulSoup4 (BS4) is a Python library used for web scraping. It parses HTML and XML documents and extracts data from websites. Often used for gathering data from pages that don't have APIs.

Key Features:

- Easy-to-use HTML parser.
- Supports extracting elements using tags, attributes, and classes.
- Compatible with other libraries like Requests and lxml.

Example: Scraping a Website

```
python
import requests
from bs4 import BeautifulSoup
url = 'https://example.com'
response = requests.get(url)
soup = BeautifulSoup(response.text, 'html.parser')
for heading in soup.find_all('h1'):
    print(heading.text)
```

Use Case: Extracting news articles, stock data, or product details from e-commerce sites.

3. CherryPy - Web Framework

CherryPy is a minimal, object-oriented web framework for Python. It allows you to build web applications quickly without needing additional tools. It has a built-in web server and is often used for lightweight applications.

Key Features:

- Supports RESTful APIs.
- Great for small-scale projects like internal tools.

Example: Simple CherryPy App

```
import cherrypy
class HelloWorld:
    @cherrypy.expose
    def index(self):
```

```

    return "Hello, CherryPy!"

if __name__ == '__main__':
    cherrypy.quickstart(HelloWorld())

```

4. Bottle - Lightweight Web Framework

Bottle is a micro web framework for Python. It is designed for small web applications and has no dependencies other than Python. It is similar to Flask but with fewer features, making it ideal for small projects.

Key Features:

- Supports routing, templates, and form handling.
- Easily deployable on platforms like Heroku and PythonAnywhere.

Example: Simple Bottle App

```

from bottle import Bottle, run

app = Bottle()

@app.route('/')
def home():
    return "Hello, Bottle Framework!"

run(app, host='localhost', port=8080)

```

Use Case: Building simple REST APIs, prototypes, or web applications with minimal complexity.

4. Technologies Used

The **University Internship Portal** is built using modern web technologies to ensure scalability, security, and ease of use. The project utilizes the following technologies:

Backend Technologies:

- Django** - A high-level Python web framework used for building the portal with security and scalability.
- SQLite** - A lightweight database used for development and testing.

Frontend Technologies:

- HTML5** - For structuring the web pages.
- CSS3** - For styling and layout design.
- JavaScript** - For adding interactivity and enhancing user experience..

Additional Tools & Libraries:

- Git & GitHub** - For version control and collaborative development.

- b) **Deployment Platforms (Optional)** – AWS, Heroku, or PythonAnywhere for hosting the portal online.
- c) The user interface (UI) is built using **HTML, CSS, JavaScript, and Bootstrap** to provide a responsive and user-friendly experience.
- d) Templates are stored in templates/base/ and rendered dynamically by Django's templating engine.
- e) Users interact with pages such as **Home, Internships, AI Internship, Web Development Internship, Data Science Internship, Account, and About JNTU-GV.**



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JNTU-GURAJADA VIZIANAGARAM
COLLEGE OF ENGINEERING VIZIANAGARAM (A)
VIZIANAGARAM

Dr.Ch. Bindu Madhuri
 Asst. Professor & HOD

Email: hod.it@intugvcev.edu.in

1. Name of the Laboratory : Django Framework Lab
2. Name of the Student : K.Pravallika
3. Roll No : 23VV1A1223
4. Class : 2ND B.Tech 2ND Semester
5. Academic Year : 2024-25
6. Name of Experiment : System Architecture
7. Date of Experiment : 20-12-2024
8. Date of Submission of Report :27-12-2024

S.No	Ability And Activity	Weightage Of Marks	Day To Day Evaluation Score
1	Aim Objective, Tools required	3	
2	Theory, Algorithm and Observations	3	
3	Implementation	3	
4	Schematic diagrams,Architecture, workflow,Flowchart	3	
5	Tidiness of his/her working area, proper maintenance of system during and after experiment.	3	
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5. System Architecture

1. User Authentication:

- a) Students and companies log in or sign up through the account.html page.
- b) The authentication system ensures secure access control.

2. Internship Browsing & Application:

- a) Students can browse available internships on the internships.html page.
- b) Clicking on a specific internship (AI, Web Development, or Data Science) redirects users to detailed internship pages (ai_internship.html, etc.).
- c) Students can apply for internships, and their applications are stored in the database.

3. Admin Management:

- a) The admin panel allows authorized users to manage internship listings, track applications, and monitor user activities.
- b) Admins can modify, approve, or reject applications.

Diagram Representation

```

INTERNSHIP PORTAL/
├── .venv/                  # Virtual environment
├── university/            # Main project directory
│   ├── base/              # Django app
│   │   ├── migrations/    # Database migrations
│   │   ├── templates/base/ # HTML templates
│   │   │   ├── about.html
│   │   │   ├── account.html
│   │   │   ├── ai_internship.html
│   │   │   ├── data_science.html
│   │   │   ├── home.html
│   │   │   ├── internships.html
│   │   │   └── web_development.html
│   │   ├── __init__.py
│   │   ├── admin.py        # Django admin panel configurations
│   │   ├── apps.py         # App configuration
│   │   ├── models.py       # Database models
│   │   ├── tests.py        # Unit tests
│   │   ├── urls.py         # URL routing
│   │   └── views.py        # Business logic & rendering templates
│   ├── db.sqlite3          # SQLite database file
│   └── manage.py           # Django management script

```

6. Features

The **University Internship Portal** provides a structured platform for students, companies, and administrators to streamline the internship application process. Below are the key features categorized based on different user roles.

1. Student Features

Browse Available Internships – Students can view a list of available internships categorized into AI, Web Development, and Data Science.

Apply for Internships – Students can submit applications directly through the portal.

User Authentication – Students can sign up and log in to their accounts to track applications.

Profile Management – Students can update their details, including name, contact information, and resume.

Internship Search and Filtering – Users can search internships based on keywords and categories.

2. Company Features

Post Internship Opportunities – Companies can post new internships with details such as eligibility, duration, and stipend.

View Student Applications – Companies can review applications submitted by students.

Application Status Updates – Companies can mark applications as “Accepted,” “Rejected,” or “Under Review.”

3. Admin Features

Manage Internship Listings – Admins can add, edit, or remove internship opportunities.

Monitor Student Applications – Track student applications and ensure smooth processing.

User Management – Manage registered students and company accounts.

Analytics & Reports – Generate reports on applications, student participation, and internship trends.

4. General Features

Responsive UI Design – The platform is mobile-friendly and adapts to different screen sizes.

Secure Authentication System – Ensures user data protection using Django’s built-in authentication.

Database Integration – Uses SQLite (or PostgreSQL) to store and manage data.

Admin Dashboard – A backend interface for managing the system efficiently.

These features make the **University Internship Portal** a complete solution for internship management.



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VIZIANAGARAM

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Email: hod.it@intugvcev.edu.in

1. Name of the Laboratory : Django Framework Lab
2. Name of the Student : K.Pravallika
3. Roll No : 23VV1A1223
4. Class : 2ND B.Tech 2ND Semester
5. Academic Year : 2024-25
6. Name of Experiment : Django Installation
7. Date of Experiment : 20-12-2024
8. Date of Submission of Report :27-12-2024

S.No	Ability And Activity	Weightage Of Marks	Day To Day Evaluation Score
1	Aim Objective, Tools required	3	
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7. Django and Installations

Django is a **high-level Python web framework** that allows developers to build secure, scalable, and maintainable web applications. It follows the **Model-View-Template (MVT)** architectural pattern and provides a wide range of built-in features to simplify web development.

It is commonly used for:

- a. Web applications
- b. API development
- c. Content management systems
- d. E-commerce platforms

Installation Of Django

Step 1: Install Python

Django requires Python, so ensure it is installed on your system.

Check if Python is installed:

python --version

Step 2: Install Pip (Python Package Manager)

Pip is usually installed with Python. Verify using

pip --version

Step 3: Create a Virtual Environment

A virtual environment helps keep dependencies isolated.

1. Open your terminal or command prompt.
2. Navigate to your desired project directory:

cd path/to/your/project

Create a virtual environment:

python -m venv env

Activate the virtual environment:

python -m venv env

Step 4: Install Django

Once the virtual environment is active, install Django using Pip:

pip install Django

Step 5: Create a Django Project

Now that Django is installed, create separate projects for **INTERNSHIP PORTAL**

django-admin startproject internship_portal

cd internship_portal

Step 6: Create Django Apps

In Django, you can create different apps for different features.

Example Apps:

☐ **For Internship Portal**

- a. **Accounts (For login and authentication)**
- b. **Internships (For managing internship listings)**

python manage.py startapp accounts

python manage.py startapp internships

Step 7: Run the Server

Start the development server

Access your app at:

- a. **<http://127.0.0.1:8000/>**
- b. **<http://127.0.0.1:8000/admin>** (For the admin panel)



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Asst. Professor & HOD

Email: hod.it@intugvcev.edu.in

1. Name of the Laboratory : Django Framework Lab
2. Name of the Student : K.Pravallika
3. Roll No : 23VV1A1223
4. Class : 2ND B.Tech 2ND Semester
5. Academic Year : 2024-25
6. Name of Experiment : Project Structure
7. Date of Experiment : 03-01-2025
8. Date of Submission of Report :24-02-2025

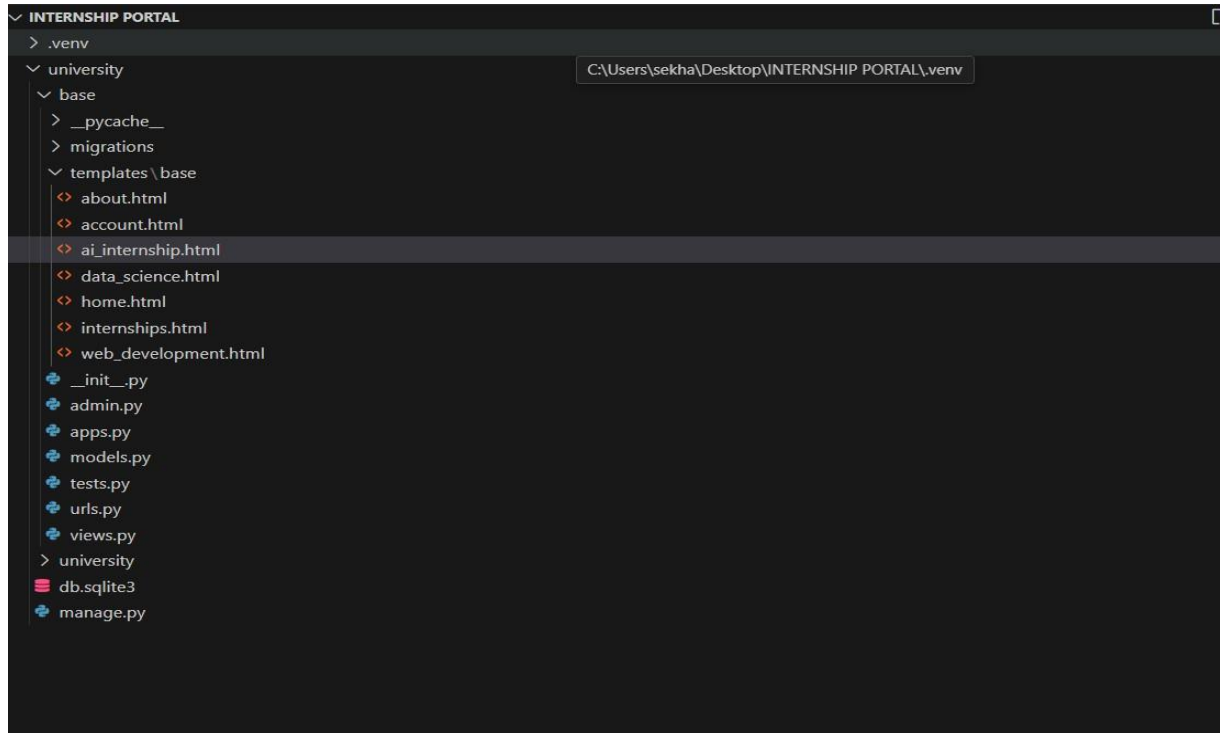
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8. Project Structure

The **University Internship Portal** follows a structured Django project architecture, ensuring modularity, maintainability, and scalability. Below is a breakdown of the directory and file structure:



Project Structure Explanation

1. Root Directory (INTERNSHIP PORTAL/)

Contains all the project files and the virtual environment for dependency management.

2. Main Project Folder (university/)

The main Django project that manages global configurations.

Contains the core app (base) where all functionality is defined.

3. Django App Folder (base/)

- models.py** - Defines database models (Internships, Users, Applications).
- views.py** - Handles requests and processes data for rendering templates.
- urls.py** - Maps URLs to corresponding views.
- admin.py** - Configures Django's admin panel for internship and user management.
- apps.py** - Contains Django app configuration details.

- f. **tests.py** - Contains unit tests for different functionalities.

4. Templates Folder (templates/base/)

- a. Stores HTML templates for different pages.
- b. Templates are dynamically rendered using Django's templating engine.

5. Database (db.sqlite3)

- a. Stores student profiles, internship listings, applications, and admin data.

6. Manage Script (manage.py)

- a. Used for executing Django commands (migrations, running the server, etc.).



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2. Name of the Student : K.Pravallika
3. Roll No : 23VV1A1223
4. Class : 2ND B.Tech 2ND Semester
5. Academic Year : 2024-25
6. Name of Experiment : URL Configuration
7. Date of Experiment : 24-02-2025
8. Date of Submission of Report :24-02-2025

S.No	Ability And Activity	Weightage Of Marks	Day To Day Evaluation Score
1	Aim Objective, Tools required	3	
2	Theory, Algorithm and Observations	3	
3	Implementation	3	
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9.URL Configuration

URL Configuration in Django for Internship Portal

In Django, the **URL configuration** is responsible for mapping user-requested URLs to the appropriate views. This ensures smooth navigation between different pages in the web application.

1. Importing Required Modules

To set up URL routing, Django imports the necessary modules, including the path function for defining routes and the views module containing the corresponding functions.

2. Defining URL Patterns

The **URL patterns** act as a roadmap for the application, directing users to different sections based on their requests. Each URL is linked to a **specific view function**, which processes the request and returns an appropriate response.

1. The structure of each URL pattern includes:
2. The **URL path** that users will enter in their browsers.
3. The **associated view function** that will generate the response.
4. A **name identifier** that allows referencing the URL dynamically in templates.

3. Explanation of Each URL Path

Each URL serves a distinct purpose in the Internship Portal:

- a. The **home page** is accessible via both the root URL and a dedicated /home/ path.
- b. The **Web Development Internship** page provides details about opportunities in web development.
- c. The **Data Science Internship** page presents internship details in the field of data science.
- d. The **AI Internship** page showcases artificial intelligence-related internships.
- e. The **About page** gives an overview of JNTU-GV University.
- f. The **Account page** allows users to log in, sign up, and manage their profiles.
- g. The **Internships page** displays a list of all available internships.

Each of these URLs ensures that users can easily access the information they need with a structured navigation flow.

4. How These URLs Work

When a user enters a specific URL in their browser, Django checks the URL patterns defined in the configuration. If a match is found, the corresponding **view function** is executed, generating an HTML response that is sent back to the user. This process ensures seamless navigation within the portal.

5. Using Named URLs in Templates

Django allows using **named URLs** in templates instead of hardcoding paths. This enhances **maintainability** and ensures that if a URL changes in the configuration, the templates automatically adapt to the update.

For example, instead of manually specifying the internship page link, Django templates can use the **URL name identifier**, making the code cleaner and easier to update.

The URL configuration in Django plays a crucial role in directing users to the appropriate sections of the Internship Portal. By defining structured URL patterns, the system ensures efficient navigation, maintainability, and a user-friendly experience. The use of named URLs further enhances flexibility, making template management more efficient.

CODE:-

```
from django.urls import path
from . import views
urlpatterns = [
    # Root URL - loads home.html when visiting http://127.0.0.1:8000/
    path("", views.home, name='home'),
    # Home page - alternative path to access home.html
    path('home/', views.home, name='home'),
    # Web Development internship page
    path('web-development/', views.web_development, name='web-development'),
    # Data Science internship page
    path('data-science/', views.data_science, name='data-science'),
    # Artificial Intelligence internship page
    path('ai/', views.ai_internship, name='ai-internship'),
    # About Us page
    path('about/', views.about, name='about'),
    # User account dashboard or profile page
```




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Email: hod.it@intugycev.edu.in

1. Name of the Laboratory : Django Framework Lab
2. Name of the Student : K.Pravallika
3. Roll No : 23VV1A1223
4. Class : 2ND B.Tech 2ND Semester
5. Academic Year : 2024-25
6. Name of Experiment : Working with Views in Django
7. Date of Experiment : 24-01-2025
8. Date of Submission of Report : 31-01-2025

S.No	Ability And Activity	Weightage Of Marks	Day To Day Evaluation Score
1	Aim Objective, Tools required	3	
2	Theory, Algorithm and Observations	3	
3	Implementation	3	
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10. Views in Django

Understanding Views in Django for the Internship Portal

1. Introduction to Django Views

In Django, **views** are responsible for handling user requests and returning appropriate responses. They act as the **bridge between URLs and templates**, processing data and rendering HTML pages dynamically.

The provided code consists of **multiple view functions**, each responsible for rendering a specific page in the Internship Portal.

2. Importing Required Module

The render function from django.shortcuts is imported. This function simplifies rendering HTML templates and passing context data to them.

3. Explanation of View Functions

Each function in the code represents a **view**, responsible for displaying a particular webpage.

- | | | | |
|----|---|--------------------|-------------------|
| 1. | Home | Page | View |
| | This function handles requests to the home page and renders the home.html template. | | |
| 2. | Web | Development | Internship |
| | When users visit the Web Development Internship page, this function loads the web_development.html template. | | |
| 3. | Data | Science | Internship |
| | This function loads the data_science.html template, providing details about Data Science internships. | | |
| 4. | AI | Internship | View |
| | The AI Internship page is rendered using this function, which loads ai_internship.html. | | |
| 5. | About | Page | View |
| | This function handles the About JNTU-GV page, rendering about.html. | | |
| 6. | Account | Page | View |
| | Users accessing the Account page will be directed to account.html using this function. | | |
| 7. | Internships | Page | View |
| | This function loads the Internships page, displaying a list of all available internships. | | |

Each function follows a **consistent structure**, taking an HTTP request as an argument and returning an HTTP response that renders an HTML page.

4. How These Views Work

1. A **user requests a URL** by entering it in the browser.
 2. The URL is mapped to the **corresponding view function**.
 3. The view **retrieves the relevant HTML template** and returns it as an HTTP response.
 4. The user sees the rendered page in their browser.
- For example, when a user visits the **Internships** page:
1. Views **control the logic** of how each page is displayed.

2. They allow dynamic content to be passed to templates.
3. By keeping logic in views and structure in templates, Django follows the **Model-View-Template (MVT) architecture**, promoting cleaner and more maintainable code.

Views play a crucial role in Django applications by processing user requests and rendering appropriate templates. The Internship Portal uses **simple function-based views** to display different pages. These views make the portal organized, easy to navigate, and user-friendly

CODE:

```
from django.shortcuts import render

# Home page view
def home(request):
    return render(request, 'base/home.html')

# Web Development internship page view
def web_development(request):
    return render(request, 'base/web_development.html')

# Data Science internship page view
def data_science(request):
    return render(request, 'base/data_science.html')

# AI internship page view
def ai_internship(request):
    return render(request, 'base/ai_internship.html')

# About Us page view
def about(request):
    return render(request, 'base/about.html')

# User Account page view
def account(request):
    return render(request, 'base/account.html')

# Internships listing page view
def internships(request):
    return render(request, 'base/internships.html')
```



DEPARTMENT OF INFORMATION TECHNOLOGY
JNTU-GURAJADA VIZIANAGARAM
COLLEGE OF ENGINEERING VIZIANAGARAM (A)
VIZIANAGARAM

Dr.Ch. Bindu Madhuri

Asst. Professor & HOD

Email: hod.it@intugvcev.edu.in

1. Name of the Laboratory : Django Framework Lab
2. Name of the Student : K.Pravallika
3. Roll No : 23VV1A1223
4. Class : 2ND B.Tech 2ND Semester
5. Academic Year : 2024-25
6. Name of Experiment : Integration and Configuration
7. Date of Experiment : 31-02-2025
8. Date of Submission of Report : 17-03-2025

S.No	Ability And Activity	Weightage Of Marks	Day To Day Evaluation Score
1	Aim Objective, Tools required	3	
2	Theory, Algorithm and Observations	3	
3	Implementation	3	
4	Schematic diagrams,Architecture, workflow,Flowchart	3	
5	Tidiness of his/her working area, proper maintenance of system during and after experiment.	3	
	Total Score	15	

DATE:

Signature of Faculty:

11.Django Settings

1. Introduction to settings.py

In Django, the settings.py file is the configuration hub of a project. It contains essential settings such as database configuration, installed applications, middleware, static file settings, and more. This file determines how the Django application behaves and interacts with different components.

2. Purpose of settings.py

The settings.py file is used to:

- a) Configure Django applications within the project.
- b) Set up database connections.
- c) Define static and media file handling.
- d) Manage security settings like allowed hosts and authentication.
- e) Set middleware, which processes requests and responses.

3. Explanation of INSTALLED_APPS

The INSTALLED_APPS list in settings.py defines all the Django apps that are active in the project. These apps can be:

1. Built-in Django apps (like authentication, admin panel, sessions).
2. Custom apps created for the project.

Understanding the Provided Code

The INSTALLED_APPS list includes:

- a) Django Built-in Apps:
 - a. 'django.contrib.admin' → Enables the Django Admin interface.
 - b. 'django.contrib.auth' → Manages authentication and user permissions.
 - c. 'django.contrib.contenttypes' → Handles content types and permissions.
 - d. 'django.contrib.sessions' → Enables session management.
 - e. 'django.contrib.messages' → Manages framework-wide messaging.
 - f. 'django.contrib.staticfiles' → Handles static files like CSS, JavaScript, and images.
 - b) Custom App (base):
 - a. 'base' → This is a custom app created within the Django project.
 - b. It must be registered in INSTALLED_APPS so Django recognizes it.
- c. . How This Works in the Internship Portal**
- c) The base app contains all core functionalities like views, templates, and URLs.
 - d) By listing it in INSTALLED_APPS, Django ensures the app is loaded properly.
 - e) This allows the Internship Portal to work smoothly with features like user authentication, internship listings, and account management.

The settings.py file is a crucial component in Django projects, controlling configurations and defining which apps are active. The INSTALLED_APPS list ensures all necessary applications are registered, including both Django's built-in apps and custom apps like base. Proper configuration of this list ensures smooth project execution and management.

CODE:-

```
from pathlib import Path # Handles file system paths
import os # For OS-level operations
```

BASE_DIR = Path(__file__).resolve().parent.parent # Base directory of the project

SECRET_KEY = 'django-insecure-@4((dp7u6177e)9)033\$bppwr#094m#x1i4wp=noy8mb_1cj1o' # Secret key for cryptographic signing

DEBUG = True # Debug mode should be False in production

ALLOWED_HOSTS = [] # List of allowed host/domain names

INSTALLED_APPS = [# Installed Django apps and third-party/custom apps

'django.contrib.admin', # Admin site

'django.contrib.auth', # Authentication system

'django.contrib.contenttypes', # Content types framework

'django.contrib.sessions', # Session framework

'django.contrib.messages', # Messaging framework

'django.contrib.staticfiles', # Static file management

'base', # Custom app

]

MIDDLEWARE = [# Middleware for request/response processing

'django.middleware.security.SecurityMiddleware', # Security headers

'django.contrib.sessions.middleware.SessionMiddleware', # Session handling

'django.middleware.common.CommonMiddleware', # Common functionality

'django.middleware.csrf.CsrfViewMiddleware', # CSRF protection

'django.contrib.auth.middleware.AuthenticationMiddleware', # User authentication

'django.contrib.messages.middleware.MessageMiddleware', # Messaging

'django.middleware.clickjacking.XFrameOptionsMiddleware', # Prevent clickjacking

]

ROOT_URLCONF = 'university.urls' # Root URL configuration module

TEMPLATES = [# Template engine settings

{

'BACKEND': 'django.template.backends.django.DjangoTemplates', # Backend engine

'DIRS': [BASE_DIR / 'base/templates'], # Directory for templates

'APP_DIRS': True, # Load templates from app directories

'OPTIONS': {

'context_processors': [# Context variables for templates

'django.template.context_processors.debug', # Debug info

'django.template.context_processors.request', # Request object

'django.contrib.auth.context_processors.auth', # User object

```
'django.contrib.messages.context_processors.messages', # Messages
```

```
},
```

```
},
```

```
},
```

```
]
```

```
WSGI_APPLICATION = 'university.wsgi.application' # WSGI entry point for deployment
```

```
DATABASES = { # Database configuration
```

```
    'default': {
```

```
        'ENGINE': 'django.db.backends.sqlite3', # SQLite database engine
```

```
        'NAME': BASE_DIR / 'db.sqlite3', # Database file path
```

```
    }
```

```
}
```



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4. Class : 2ND B.Tech 2ND Semester
5. Academic Year : 2024-25
6. Name of Experiment : Working with Templates
7. Date of Experiment : 17-03-2025
8. Date of Submission of Report :07-03-2025

S.No	Ability And Activity	Weightage Of Marks	Day To Day Evaluation Score
1	Aim Objective, Tools required	3	
2	Theory, Algorithm and Observations	3	
3	Implementation	3	
4	Schematic diagrams,Architecture, workflow,Flowchart	3	
5	Tidiness of his/her working area, proper maintenance of system during and after experiment.	3	
	Total Score	15	

DATE:

Signature of Faculty:

12. Templates

What is a Template in Django?

A template in Django is an HTML file that dynamically generates web pages by rendering data from the backend. Django's templating engine allows embedding Python-like syntax (`{{ }}` and `{% %}`) to display dynamic content, loop through data, and apply conditional logic.

Templates are stored inside the `templates/` directory and are used to separate the presentation layer (frontend) from the business logic (backend), making the application more modular and maintainable.

Templates Used in the University Internship Portal

Location of Templates in the Project:

`university/base/templates/base/`

1. `home.html` - Home Page Template

Purpose:

- a) Serves as the landing page of the portal.
- b) Displays an introduction to the platform and guides students on how to apply for internships.

a. Key Components:

- c) Welcome message & description of the portal.
- d) Links to browse available internships.
- e) Navigation bar with options to log in or sign up.

3. `internships.html` – Internship Listings Page

Purpose:

- a. Displays a list of available internships across different domains.
- b. Allows students to view details and apply.

c. Key Components:

- d. Internship cards with title, description, eligibility, and apply button.
- e. Search functionality for filtering internships.

3. `ai_internship.html` – AI Internship Details Page

Purpose:

- a) Provides detailed information about AI-related internships.
- b) Students can read eligibility criteria and apply directly.

a. Key Components:

- c) AI internship description, skills required, stipend, duration.
- d) Apply button to submit an application.

4. `web_development.html` – Web Development Internship Page

Purpose:

- a) Displays internship details related to web development.

a. Key Components:

- b) Internship details, requirements, and apply button.

5. data_science.html – Data Science Internship Page

Purpose:

- a. Provides information about Data Science internships and application procedures.

a. Key Components:

- b. Internship overview, required skills, and apply button.

6. account.html – User Authentication Page

Purpose:

- c. Handles login and registration for students.

d. Key Components:

- e. Login form (username, password).
- f. Sign-up form for new users.

7. about.html – About JNTU-GV Page

Purpose:

- g. Displays information about JNTU-GV, its departments, and campus details.

h. Key Components:

- i. University introduction and mission statement.
- j. Details about different departments and programs.

How Templates Work in Django?

The view (views.py) processes data and selects a template. The template renders dynamic content using Django Template Language (DTL).

The template is returned as an HTML page to the browser

13. HOME TEMPLATE

The **Home Page** serves as the gateway to the **University Internship Portal**, providing students with an overview of available internship opportunities and easy navigation across different sections. It is designed to be **user-friendly and visually engaging**, ensuring that students can quickly find relevant information about internships.

Key Sections of the Home Page

1. University Banner Section

At the top of the page, a **university banner** is displayed, featuring the **Jawaharlal Nehru Technological University Gurajada Vizianagaram (JNTU-GV) logo, name, and establishment details**. This section ensures that users immediately recognize the institution offering the internship programs. The banner also includes the **location and legal establishment act details**, reinforcing credibility.

2. Navigation Bar

The **navigation bar** allows students to seamlessly access different sections of the portal:

Home – Redirects to the main page.

Internships – Displays all available internship opportunities.

About - Provides detailed information about the university and its offerings.

Account - Allows students to log in or sign up for the platform.

Each of these options ensures smooth and structured navigation, enhancing the overall **user experience**.

3. Internship Overview

Below the navigation bar, a **highlighted section** introduces the **internship portal**, encouraging students to explore internship opportunities. A motivational heading like “**JNTU GV College Online Internships – Unlock Your Future!**” emphasizes the importance of internships in career development.

4. Internship Image Gallery

To make the page more engaging, an **image gallery** is included, displaying visuals related to **internships, university infrastructure, and students engaging in learning activities**. These images enhance the credibility of the platform and provide a preview of the opportunities available.

5. University Information Section

At the bottom of the home page, a **university description** reinforces the association between the internship portal and **JNTU-GV**. This section provides a brief **introduction to the university, its vision, and its role in facilitating internships** for students.

Summary of Home Page Features

University branding with a logo, name, and establishment details.

Navigation bar for quick access to essential sections.

Internship introduction to motivate students.

Image gallery showcasing internship opportunities.

University details to reinforce credibility.

This **Home Page** acts as the foundation of the **University Internship Portal**, offering an intuitive and structured experience for students exploring internships.

Code:-

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Internship Portal - JNTU GV College</title>

  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600&display=swap"
rel="stylesheet">

</head>

<body style="font-family:'Poppins',sans-serif;background-color:#f8f9fa;color:#333;padding-top:120px;margin:0;">

  <header style="background:#2C3E50;color:#fff;text-align:center;padding:15px;position:fixed;top:0;left:0;width:100%;box-shadow:0 2px 10px rgba(0,0,0,0.2);z-index:1000;">
```

```

<div style="display:flex;align-items:center;justify-content:center;padding:10px;">

  <div>

    <h2 style="margin:0;font-size:20px;text-align:center;">JAWAHARLAL NEHRU TECHNOLOGICAL
    UNIVERSITY GURAJADA VIZIANAGARAM</h2>

    <p style="margin:0;font-size:14px;text-align:center;">VIZIANAGARAM-535 003, A.P</p>

    <p style="margin:0;font-size:12px;text-align:center;">(Established by Andhra Pradesh Act No.22 of
    2021)</p>

  </div>

</div>

<nav style="background:#34495E;display:flex;justify-content:center;padding:10px;flex-wrap:wrap;">

  <a href="{% url 'home' %}" style="color:#fff;margin:5px;font-size:1rem;text-
  decoration:none;padding:8px 12px;border-radius:5px;transition:background 0.3s ease;">Home</a>

  <a href="{% url 'internships' %}" style="color:#fff;margin:5px;font-size:1rem;text-
  decoration:none;padding:8px 12px;border-radius:5px;transition:background 0.3s ease;">Internships</a>

  <a href="{% url 'about' %}" style="color:#fff;margin:5px;font-size:1rem;text-
  decoration:none;padding:8px 12px;border-radius:5px;transition:background 0.3s ease;">About</a>

  <a href="{% url 'account' %}" style="color:#fff;margin:5px;font-size:1rem;text-
  decoration:none;padding:8px 12px;border-radius:5px;transition:background 0.3s ease;">Account</a>

</nav>

</header>

<section id="home" style="padding:60px 40px;margin:20px auto;background:linear-
gradient(135deg,#2c3e50,#34495e);color:white;border-radius:10px;box-shadow:0 10px 20px
rgba(0,0,0,0.2);max-width:1200px;width:90%;text-align:center;">

  <h2 style="font-size:2.2rem;color:#fff;margin-bottom:20px;">JNTU GV College Online Internships –
  Unlock Your Future!</h2>

  <div style="display:flex;justify-content:center;gap:30px;margin:30px 0;flex-wrap:wrap;">

  </div>

  <p><strong>Jawaharlal Nehru Technological University Gurajada Vizianagaram (JNTU GV)</strong>
  offers a wide range of <strong>online internships</strong> designed to bridge the gap between academic
  learning and real-world industry needs.</p>

```

`<h3 style="margin-top:30px;">Why Choose JNTU GV Online Internships?</h3>`

`<ul style="text-align:left;display:inline-block;margin:20px auto;padding:15px;background:rgba(255,255,255,0.1);border-radius:10px;backdrop-filter:blur(5px);box-shadow:0 5px 10px rgba(0,0,0,0.2);width:fit-content;">`

`<li style="font-size:1.1rem;margin:10px 0;padding-left:25px;position:relative;list-style:none;">✓ Hands-on experience with real-world projects.`

`<li style="font-size:1.1rem;margin:10px 0;padding-left:25px;position:relative;list-style:none;">✓ Guidance from industry professionals.`

`<li style="font-size:1.1rem;margin:10px 0;padding-left:25px;position:relative;list-style:none;">✓ Enhance your resume with practical skills.`

`<li style="font-size:1.1rem;margin:10px 0;padding-left:25px;position:relative;list-style:none;">✓ Earn industry-recognized certifications.`

``

`<p style="text-align:center;margin-top:20px;">🚀 Start your internship today and take the first step toward a successful career! 🚀</p>`

`Apply Now`

`</section>`

`</body>`

`</html>`

OUTPUT



14. INTERNSHIPS TEMPLATE

The Internship Page is a crucial part of the University Internship Portal, allowing students to explore and enroll in various internship opportunities. It is designed with a structured layout, clear navigation, and an engaging user interface to provide a seamless experience.

Key Sections of the Internship Page

1. Header Section

- a. The header includes a university banner displaying the JNTU-GV logo, university name, and location details, reinforcing institutional branding. Additionally, a fixed navigation bar allows users to easily switch between different sections of the portal:
- b) **Home** - Returns to the main page.
- c) **Internships** - Displays the available internship programs.
- d) **About** - Provides information about the university and the portal.
- e) **Account** - Allows users to log in or sign up.

2. Internship Introduction Section

Below the navigation bar, a section introduces the available internship programs with the heading "**Available Online Internships.**" This section highlights the significance of these internships in skill development and career growth.

3. Internship Listing Section

The core feature of the page is the internship listing, where students can explore various internship programs. Each internship is displayed in a structured card format, making it visually appealing and easy to navigate.

Each internship card includes:

- a) **Internship Image** - A visual representation of the course.
- b) **Internship Title** - Examples include Web Development, Data Science, and Artificial Intelligence.
- c) **Short Description** - A brief overview of what the internship covers.
- d) **Apply Button** - A direct link for students to access detailed internship information and apply.

4. Interactive and Responsive Design

The page is fully responsive, adapting to different screen sizes, from desktops to mobile devices. Smooth animations, hover effects, and transitions enhance user interaction.

- a) **Animations:** Internship cards have a fade-in effect upon page load, improving engagement.
- b) **Hover Effects:** When hovering over an internship card, it slightly zooms in, adding a modern touch.

5. Color Scheme and Styling

The page follows a modern and professional design with a gradient background transitioning from blue to purple. The contrasting text ensures readability, contributing to a visually appealing experience.

Summary of Internship Page Features

- a) University branding at the top for authenticity.
- b) Fixed navigation bar for easy navigation across the portal.
- c) Internship listing section with well-structured course details.
- d) Animations and hover effects to enhance user engagement.
- e) Fully responsive design for compatibility with both desktop and mobile devices.
 - a. The Internship Page serves as the central hub for students to explore and apply for various online internships, helping them acquire valuable skills and industry exposure.

CODE:-

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8"><meta name="viewport" content="width=device-width, initial-
scale=1.0"><title>Internships</title></head>
<body style="font-family:'Poppins',sans-serif;background:linear-gradient(to
right,#2b5876,#4e4376);color:#fff;padding-top:120px;margin:0;">
<!-- Header with University Logo and Info -->
<header style="background:#2C3E50;color:#fff;text-
align:center;padding:15px;position:fixed;top:0;left:0;width:100%;box-shadow:0 2px 10px
rgba(0,0,0,0.2);z-index:1000;">
<div style="display:flex;align-items:center;justify-content:center;padding:10px;">

</div>
```



```

<h2 style="margin:0;font-size:20px;text-align:center;">JAWAHARLAL NEHRU
TECHNOLOGICAL UNIVERSITY GURAJADA VIZIANAGARAM</h2>
<p style="margin:0;font-size:14px;text-align:center;">VIZIANAGARAM-535 003, A.P</p>
<p style="margin:0;font-size:12px;text-align:center;">(Established by Andhra Pradesh Act No.22 of
2021)</p>
</div>
</div>
<!-- Navigation Bar -->
<nav style="background:#34495E;display:flex;justify-content:center;padding:10px;">
<a href="{% url 'home' %}" style="color:#fff;margin:0 15px;font-size:1.1rem;text-
decoration:none;padding:10px 15px;border-radius:5px;background:#ffdd57;color:black;text-
decoration:none;transition:background 0.3s,transform 0.2s;"
onmouseover="this.style.background='#ffbb33';this.style.transform='scale(1.05)'"
onmouseout="this.style.background='#ffdd57';this.style.transform='scale(1)'">Home</a>
<a href="{% url 'internships' %}" style="color:#fff;margin:0 15px;font-size:1.1rem;text-
decoration:none;padding:10px 15px;border-radius:5px;background:#ffdd57;color:black;text-
decoration:none;transition:background 0.3s,transform 0.2s;"
onmouseover="this.style.background='#ffbb33';this.style.transform='scale(1.05)'"
onmouseout="this.style.background='#ffdd57';this.style.transform='scale(1)'">Internships</a>
<a href="{% url 'about' %}" style="color:#fff;margin:0 15px;font-size:1.1rem;text-
decoration:none;padding:10px 15px;border-radius:5px;background:#ffdd57;color:black;text-
decoration:none;transition:background 0.3s,transform 0.2s;"
onmouseover="this.style.background='#ffbb33';this.style.transform='scale(1.05)'"
onmouseout="this.style.background='#ffdd57';this.style.transform='scale(1)'">About</a>
<a href="{% url 'account' %}" style="color:#fff;margin:0 15px;font-size:1.1rem;text-
decoration:none;padding:10px 15px;border-radius:5px;background:#ffdd57;color:black;text-
decoration:none;transition:background 0.3s,transform 0.2s;"
onmouseover="this.style.background='#ffbb33';this.style.transform='scale(1.05)'"
onmouseout="this.style.background='#ffdd57';this.style.transform='scale(1)'">Account</a>
</nav>
</header>
<!-- Internships Section -->
<section id="internships" style="padding:50px 10%;background:rgba(255,255,255,0.1);box-
shadow:0 2px 10px rgba(0,0,0,0.1);text-align:center;border-radius:10px;">
<h2 style="color:#f0f0f0;margin-bottom:20px;">Available Online Internships</h2>
<div style="display:grid;grid-template-columns:repeat(auto-
fit,minmax(280px,1fr));gap:20px;justify-content:center;padding:20px;">
<!-- Internship Item Template -->
<!-- Web Development -->
<div style="background:rgba(255,255,255,0.15);padding:20px;border-radius:10px;box-shadow:0
4px 8px rgba(0,0,0,0.2);text-align:center;backdrop-filter:blur(10px);animation:fadeIn 1s
forwards;">

<h3 style="margin-bottom:10px;color:#ffdd57;">Web Development</h3>
<p style="font-size:14px;color:#ddd;">Learn to build websites and applications.</p>
<a href="{% url 'web-development' %}" style="display:inline-block;padding:10px
15px;background:#ffdd57;color:black;text-decoration:none;border-radius:5px;margin-
top:10px;">Go To Course</a>
</div>
<!-- Data Science -->
<div style="background:rgba(255,255,255,0.15);padding:20px;border-radius:10px;box-shadow:0
4px 8px rgba(0,0,0,0.2);text-align:center;backdrop-filter:blur(10px);animation:fadeIn 1s
forwards;">


```



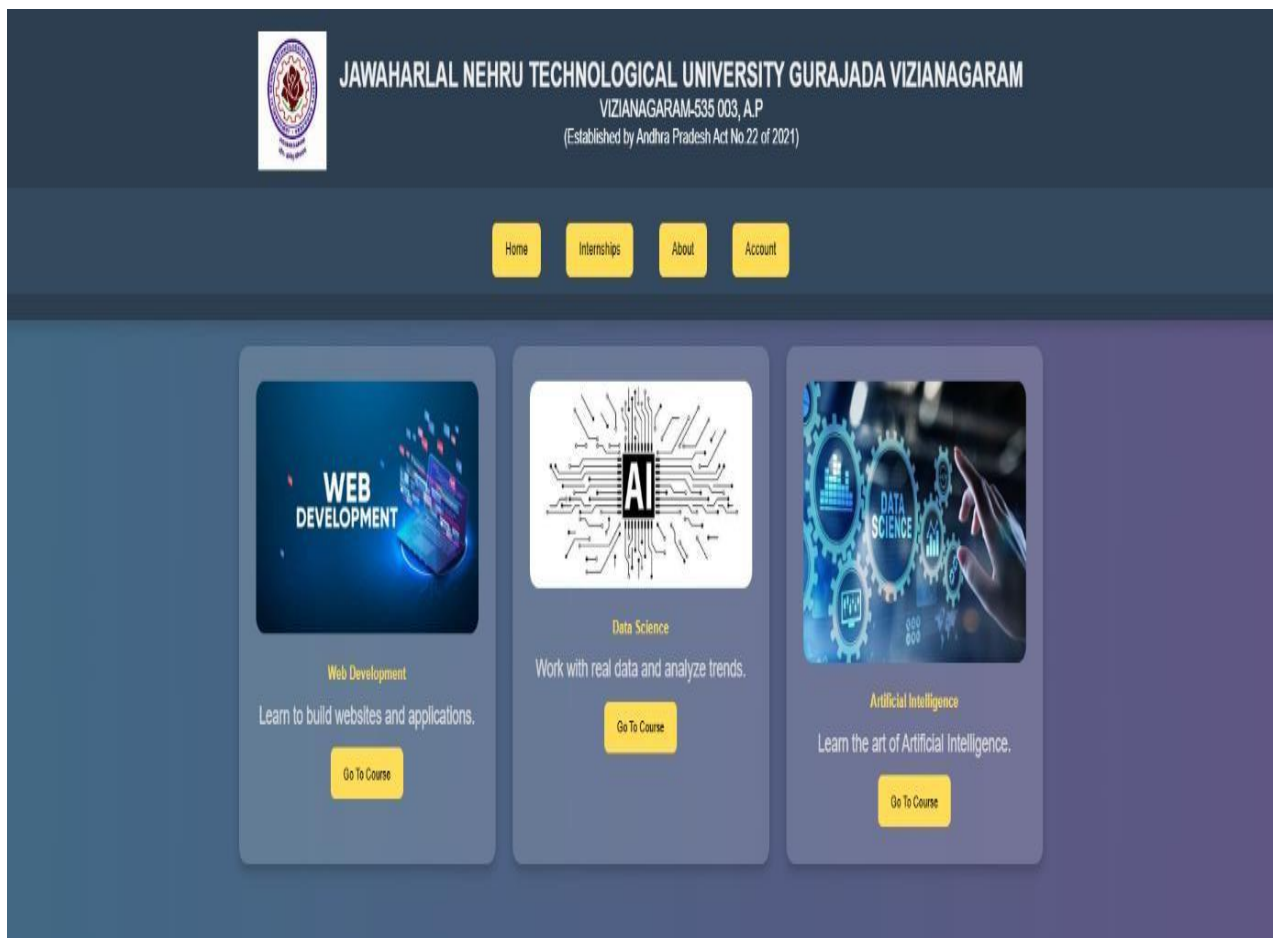
```

<h3 style="margin-bottom:10px;color:#ffdd57;">Data Science</h3>
<p style="font-size:14px;color:#ddd;">Work with real data and analyze trends.</p>
<a href="{% url 'data-science' %}" style="display:inline-block;padding:10px 15px;background:#ffdd57;color:black;text-decoration:none;border-radius:5px;margin-top:10px;">Go To Course</a>
</div>
<!-- AI -->
<div style="background:rgba(255,255,255,0.15);padding:20px;border-radius:10px;box-shadow:0 4px 8px rgba(0,0,0,0.2);text-align:center;backdrop-filter:blur(10px);animation:fadeIn 1s forwards;">

<h3 style="margin-bottom:10px;color:#ffdd57;">Artificial Intelligence</h3>
<p style="font-size:14px;color:#ddd;">Learn the art of Artificial Intelligence.</p>
<a href="{% url 'ai-internship' %}" style="display:inline-block;padding:10px 15px;background:#ffdd57;color:black;text-decoration:none;border-radius:5px;margin-top:10px;">Go To Course</a>
</div>
<!-- Add more internships using similar structure -->
<!-- ... Machine Learning, C++, Python, Java, etc. -->
</div>
</section>
</body>
</html>

```

OUTPUT:-



15. AI-INTERNSHIP TEMPLATE

The AI Internship Page is a dedicated section of the University Internship Portal that provides comprehensive details about the Artificial Intelligence (AI) internship program. It is designed to give students a clear understanding of what they will learn, the duration of the program, and the benefits of enrolling.

Key Sections of the AI Internship Page

1. Header Section

At the top of the page, the header displays the title "**Artificial Intelligence Internship**" in a structured layout with a dark blue background. This enhances branding and makes the page visually appealing.

2. Internship Details Section

The main content is presented in a well-organized card-style format, ensuring readability and ease of navigation.

Internship

Overview:

This section introduces students to Artificial Intelligence, covering key topics such as machine learning algorithms, neural networks, and deep learning techniques. It also mentions the technologies used, including Python, TensorFlow, and Keras, ensuring students understand the tools they will work with.

Duration:

The internship spans three months and includes both theoretical and practical learning sessions. Students will complete weekly tasks and a final project to gain hands-on experience.

Cost:

The internship is free and accessible to all students. Additionally, exceptional participants will receive a certificate and a letter of recommendation, which can be valuable for career growth.

3. Navigation Link

At the bottom of this section, a "**Back to Internship Portal**" link allows students to return to the main internship page easily.

4. Internship Completion Certificate Section

This section displays a sample certificate of completion awarded to students who successfully finish the internship.

Certification

Details:

The certificate confirms that the participant has successfully completed the AI internship at JNTU-GV Vizianagaram, highlighting their knowledge and skills in AI concepts.

Participant

Name

Placeholder:

The certificate dynamically inserts the participant's name, making it personalized.

Signature

Section:

The Chancellor's signature is included at the bottom, adding authenticity to the certification.

5. UI/UX and Design Considerations

The page is built with a modern and responsive design to ensure a seamless user experience across all devices.

- a) **Color Scheme:** A combination of white, dark blue, and gray tones ensures readability and a professional look.
- b) **Typography:** The Poppins font provides a clean and modern appearance.
- c) **Box Shadows and Rounded Corners:** These elements enhance the visual appeal of content sections.

a. Summary of AI Internship Page Features

- d) Clearly structured internship details, including an overview, duration, and cost.
- e) Back navigation link for easy user movement.
- f) Internship completion certificate section to motivate students.
- g) Professional and responsive design for improved readability and user experience.
 - a. This page effectively communicates all necessary details about the AI internship, making it easier for students to make informed enrollment decisions.

Code:-

```
<!DOCTYPE html><html lang="en"><head>
<meta charset="UTF-8"><meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Artificial Intelligence Internship - JNTU GV College</title>
<link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600&display=swap"
rel="stylesheet">
<style>
/* Global Styles */
body{font-family:'Poppins',sans-serif;background-color:#f1f1f1;color:#333;padding:20px;}
/* Header Section */
header{background-color:#2C3E50;color:#fff;padding:15px;text-align:center;}
h1,h2{text-align:center;}
/* Internship Details Box */
.internship-details{background-color:#fff;padding:30px;border-radius:8px;box-shadow:0 2px 10px
rgba(0,0,0,0.1);margin:20px auto;max-width:800px;}
.internship-details p{font-size:1.1rem;line-height:1.6;margin-bottom:20px;}
.internship-details h3,.internship-details h4{margin-top:20px;}
/* Back Link Style */
.back-link{display:block;text-align:center;margin-top:20px;font-size:1.1rem;text-
decoration:none;color:#2C3E50;}
.back-link:hover{color:#E74C3C;}
/* Certificate Box */
.certificate{margin-top:50px;padding:40px;background-color:#fff;border:2px solid #2C3E50;border-
radius:10px;max-width:900px;margin:40px auto;text-align:center;}
.certificate h2{font-size:2.5rem;margin-bottom:10px;}
```

```

.certificate p{font-size:1.1rem;line-height:1.8;margin:10px 0;}

.certificate .participant-name{font-weight:bold;font-size:1.3rem;margin-top:20px;}

.certificate .signature{margin-top:30px;font-size:1.1rem;display:flex;justify-content:center;align-items:center;flex-direction:column;}

.signature img{width:120px;margin-top:10px;}

.signature p{margin-top:5px;font-weight:bold;}

</style>

</head><body>

<!-- Header Title -->

<header><h1>Artificial Intelligence Internship</h1></header>

<!-- Internship Description -->

<div class="internship-details">

<h2>Internship Overview</h2>

<p>This internship will provide you with practical experience in Artificial Intelligence (AI), including machine learning algorithms, neural networks, and deep learning techniques. You will work with tools like Python, TensorFlow, Keras, and more to gain hands-on experience in AI development.</p>

<h3>Duration</h3>

<p>The internship lasts for 3 months, with both theoretical and practical learning sessions. You'll be assigned weekly tasks and a final project.</p>

<h3>Cost</h3>

<p>The internship is free of charge. However, exceptional participants will be awarded a certificate and a letter of recommendation.</p>

<a href="internship-portal.html" class="back-link">Back to Internship Portal</a>

</div>

<!-- Internship Completion Certificate -->

<div class="certificate">

<h2>Certificate of Completion</h2>

<p>This is to certify that</p>

<p class="participant-name">[Participant Name]</p>

<p>has successfully completed the Artificial Intelligence Internship program at JNTU GV Vizianagaram. The internship involved in-depth training on AI concepts, including machine learning algorithms, neural networks, and deep learning techniques.</p>

<p>The participant has shown exceptional commitment to learning and growth throughout the internship.</p>

<div class="signature">

<p>Signature of Chancellor</p>

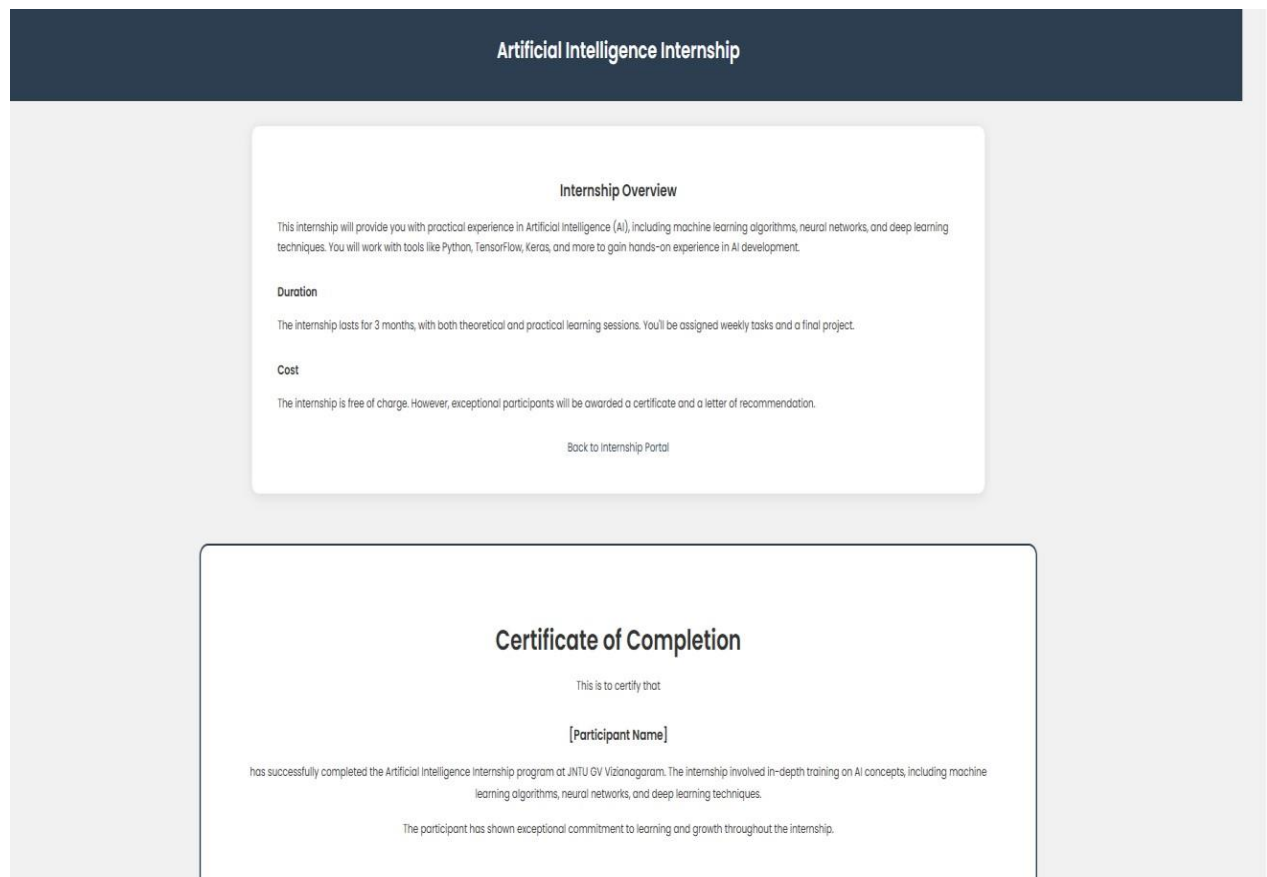
<!-- Chancellor's Signature -->



```

</div>

</div>

</body></html> **OUTPUT:-**

16. WEB-INTERNSHIP TEMPLATE

The Web Development Internship Page is a dedicated webpage in the University Internship Portal that provides comprehensive details about the Web Development internship at JNTU-GV. It outlines the internship structure, duration, cost, technologies covered, and certification details, ensuring students have all the necessary information before enrolling.

Key Sections of the Web Development Internship Page

1. Header Section

The header prominently displays the title "Web Development Internship" at the top of the page.

1. The background color is dark blue (#2C3E50), providing a visually appealing and professional look.
2. The header ensures branding consistency across all internship pages, maintaining a uniform user experience.

3. Internship Details Section

- a. This section is styled as a white card with rounded corners and a shadow effect, making the content more readable and professional.
- b. Internship Overview:
 4. Provides a brief introduction to the Web Development internship.

5. Explains the significance of web development and its applications.
6. Highlights the technologies covered, including HTML, CSS, JavaScript, React.js, and Node.js.
7. Encourages students to improve their coding skills and build a strong portfolio.
 - a. Duration:
8. The internship spans three months, covering both theoretical and practical aspects.
9. Students will complete weekly tasks and a final project, ensuring hands-on learning.
 - a. Cost:
10. The internship is completely free, making it accessible to all students.
11. Top-performing students will receive a certificate and a letter of recommendation, which can be beneficial for career growth.
 - a. **Back Navigation Link:**
12. A "Back to Internship Portal" link allows students to return to the main internship listing page.
13. Features a hover effect, changing color when the user hovers over it, enhancing interactivity.
- 14. Internship Completion Certificate Section**
 - a. A dedicated section at the bottom of the page showcases a sample certificate that students will receive upon successfully completing the internship.
 - b. Certification Details:
15. Confirms the participant has successfully completed the internship.
16. Lists the technologies learned, including HTML, CSS, JavaScript, React.js, and Node.js.
17. Acknowledges the participant's efforts and dedication in the program.
 - a. Dynamic Participant Name:
18. A placeholder [Participant Name] allows the certificate to be personalized for each student.
 - a. **Signature Section:**
19. Displays the Chancellor's signature (signature.png) to add credibility and authenticity to the certification.
 - a. UI/UX Design Considerations
20. **Professional Design:** Uses a clean and modern UI for better readability.
21. **Color Scheme:** Combines dark blue, white, and gray for a professional look.
22. **Typography:** Uses the Poppins font, enhancing the modern appearance.
23. **Box Shadows & Rounded Corners:** Improve the visual appeal of content sections.
24. **Responsiveness:** Ensures that the page is mobile-friendly and works across different screen sizes.
 - a. Summary of the Web Development Internship Page Features
25. Clearly structured internship details, including an overview, duration, and cost.
26. Back navigation link for easy movement between pages.
27. Internship completion certificate section to motivate students.
28. Modern UI/UX design for a seamless and engaging user experience.

- a. **Web Development Internship Page Template**
- b. The Web Development Internship Page is a dedicated webpage in the University Internship Portal that provides comprehensive details about the Web Development internship at JNTU-GV. It outlines the internship structure, duration, cost, technologies covered, and certification details, ensuring students have all the necessary information before enrolling.
- c. **Key Sections of the Web Development Internship Page**
- d. **Header Section**
 - e. The header prominently displays the title "**Web Development Internship**" at the top of the page.
- 29. The header ensures **branding consistency** across all internship pages, maintaining a uniform user experience.
 - a. **Internship Details Section**
 - b. This section is styled as a **white card with rounded corners and a shadow effect**, making the content more readable and professional.
 - c. **Internship Overview:**
- 30. Provides a brief introduction to the Web Development internship.
- 31. Explains the significance of web development and its applications.
- 32. Highlights the **technologies covered**, including **HTML, CSS, JavaScript, React.js, and Node.js**.
- 33. Encourages students to improve their **coding skills** and build a **strong portfolio**.
 - a. **Duration:**
- 34. The internship spans **three months**, covering both theoretical and practical aspects.
- 35. Students will complete **weekly tasks** and a **final project**, ensuring hands-on learning.
 - a. **Cost:**
- 36. The internship is **completely free**, making it accessible to all students.
- 37. Top-performing students will receive a **certificate and a letter of recommendation**, which can be beneficial for career growth.
 - a. **Back Navigation Link:**
- 38. A "**Back to Internship Portal**" link allows students to return to the main internship listing page.
- 39. Features a **hover effect**, changing color when the user hovers over it, enhancing interactivity.
 - a. **Internship Completion Certificate Section**
 - b. A dedicated section at the bottom of the page showcases a **sample certificate** that students will receive upon successfully completing the internship.
 - c. **Certification Details:**
- 40. Confirms the participant has successfully completed the internship.
- 41. Lists the **technologies learned**, including **HTML, CSS, JavaScript, React.js, and Node.js**.
 - a. **Signature Section:**

42. Displays the **Chancellor's signature (signature.png)** to add **credibility and authenticity** to the certification.

a. UI/UX Design Considerations

43. **Professional Design:** Uses a clean and modern UI for better readability.

44. **Color Scheme:** Combines **dark blue, white, and gray** for a professional look.

45. **Typography:** Uses the **Poppins font**, enhancing the modern appearance.

46. **Box Shadows & Rounded Corners:** Improve the **visual appeal** of content sections.

47. **Responsiveness:** Ensures that the page is **mobile-friendly** and works across different screen sizes.

a. Summary of the Web Development Internship Page Features

48. **Clearly structured internship details**, including an overview, duration, and cost.

49. **Back navigation link** for easy movement between pages.

50. **Internship completion certificate section** to motivate students.

51. **Modern UI/UX design** for a seamless and engaging user experience.

52.

CODE:-

```
<!DOCTYPE html><html lang="en"><head>

<meta charset="UTF-8"><meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Web Development Internship - JNTU GV College</title>

<link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600&display=swap"
rel="stylesheet">

</head><body style='font-family:'Poppins',sans-serif;background-
color:#f1f1f1;color:#333;padding:20px;'>

<!-- Header Section -->

<header style="background-color:#2C3E50;color:#fff;padding:15px;text-align:center;">

<h1>Web Development Internship</h1>

</header>

<!-- Internship Details Section -->

<div style="background-color:#fff;padding:30px;border-radius:8px;box-shadow:0 2px 10px
rgba(0,0,0,0.1);margin:20px auto;max-width:800px;">

<h2 style="text-align:center;">Internship Overview</h2>

<p style="font-size:1.1rem;line-height:1.6;margin-bottom:20px;">This internship will provide you with
practical experience in web development, including the design and development of websites and web
applications. You will work on various technologies such as HTML, CSS, JavaScript, and frameworks like
React.js and Node.js. This is a great opportunity to enhance your coding skills and build a strong
portfolio.</p>
```



```

<h3 style="margin-top:20px;">Duration</h3>

<p style="font-size:1.1rem;line-height:1.6;margin-bottom:20px;">The internship lasts for 3 months, during
which you'll be involved in both theoretical and practical learning. There will be weekly tasks and a final
project to complete.</p>

<h3 style="margin-top:20px;">Cost</h3>

<p style="font-size:1.1rem;line-height:1.6;margin-bottom:20px;">The internship is free of cost. However,
participants who perform exceptionally well will be eligible for a certificate and a letter of
recommendation.</p>

<a href="internship-portal.html" style="display:block;text-align:center;margin-top:20px;font-
size:1.1rem;text-decoration:none;color:#2C3E50;" onmouseover="this.style.color='#E74C3C'"
onmouseout="this.style.color='#2C3E50'">Back to Internship Portal</a>

</div>

<!-- Certificate Section -->

<div style="margin-top:50px;padding:40px;background-color:#fff;border:2px solid #2C3E50;border-
radius:10px;max-width:900px;margin:auto;text-align:center;">

<h2 style="font-size:2.5rem;margin-bottom:10px;">Certificate of Completion</h2>

<p style="font-size:1.1rem;line-height:1.8;margin:10px 0;">This is to certify that</p>

<p style="font-weight:bold;font-size:1.3rem;margin-top:20px;">[Participant Name]</p>

<p style="font-size:1.1rem;line-height:1.8;margin:10px 0;">has successfully completed the Web
Development Internship program at JNTU GV Vizianagaram. The internship involved practical work in web
development technologies including HTML, CSS, JavaScript, React.js, and Node.js.</p>

<p style="font-size:1.1rem;line-height:1.8;margin:10px 0;">We commend the participant for their efforts
and dedication throughout the internship program.</p>

<div style="margin-top:30px;font-size:1.1rem;display:flex;justify-content:center;align-items:center;flex-
direction:column;">

<p style="margin-top:5px;font-weight:bold;">Signature of Chancellor</p>

<!-- Chancellor Signature Image -->



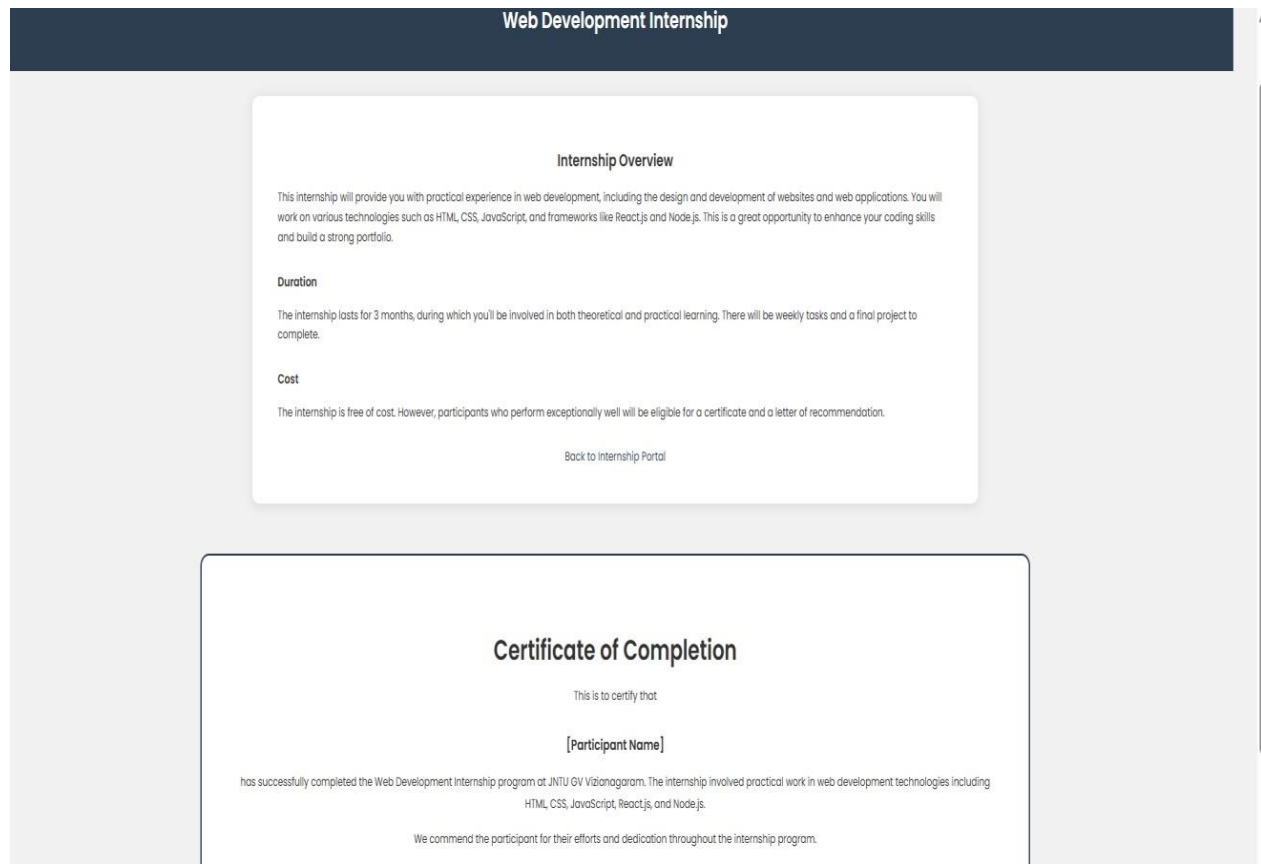
</div>

</div>

</body></html></html>

```

OUTPUT:-



17. DATA SCIENCE-INTERNSHIP TEMPLATE

The Data Science Internship Page is a dedicated section of the University Internship Portal, offering students a comprehensive overview of the Data Science internship at JNTU-GV. It presents crucial information, including course content, duration, cost, and certification details, ensuring students have a clear understanding of the program.

Key Sections of the Data Science Internship Page

1. Header Section

The header prominently displays the title "Data Science Internship" at the top of the page.

- 1) Features a dark blue background (#2C3E50) with white text, creating a clean and professional appearance.
- 2) Maintains visual consistency across all internship pages.

3) Internship Details Section

- a. The internship details section is designed as a white card with a shadow effect, making the content structured, visually appealing, and easy to read.

b. Internship Overview:

- 4) Briefly introduces the Data Science internship and emphasizes a practical learning approach.
- 5) Highlights key topics covered in the program:
 - a. Data Analysis
 - b. Data Visualization

c. Machine Learning

d. Tools and Technologies Covered:

- 6) Python (Core programming language for Data Science)
- 7) pandas (Data manipulation and analysis)
- 8) NumPy (Numerical computations)
- 9) Matplotlib (Data visualization)
- 10) Additional machine learning libraries for predictive analytics

a. Duration:

- 11) The internship spans three months.
- 12) Students will complete weekly tasks and a final project, ensuring hands-on learning.

a. Cost:

- 13) The internship is completely free for all students.
- 14) Top-performing students will receive a certificate and a letter of recommendation to help boost their career opportunities.

a. Back Navigation Link:

- 15) A "Back to Internship Portal" link allows students to return to the main internship listing page.
- 16) Features a hover effect that changes color to #E74C3C, enhancing user interaction.

17) Internship Completion Certificate Section

- a. This section showcases a sample certificate, which students will receive upon successfully completing the internship.

b. Certification Details:

- 18) A formal statement confirming the participant's successful completion of the program.
- 19) Specifies the key topics covered: data analysis, data visualization, and machine learning.
- 20) Lists the technologies learned, including Python, pandas, NumPy, and Matplotlib.
- 21) Recognizes exceptional performance and dedication.
 - a. Dynamic Participant Name:
- 22) The certificate dynamically inserts the participant's name using a placeholder [Participant Name], making it personalized.
 - a. Signature Section:
- 23) design with a consistent color theme.
- 24) Clear typography using the Poppins font for enhanced readability.
- 25) Card-based layout for structured and easy-to-navigate content.
- 26) Mobile-friendly and fully responsive, ensuring compatibility across different devices.
- 27) Subtle hover effects, improving user engagement and interactivity.
 - a. Summary of the Data Science Internship Page Features
- 28) Comprehensive internship details (overview, duration, cost).
- 29) Back navigation link for a seamless user experience.
- 30) Internship completion certificate section to motivate students.
- 31) Modern UI/UX design, improving readability and engagement.

CODE:-

```

<!DOCTYPE html><html lang="en"><head>

<meta charset="UTF-8"><meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Data Science Internship - JNTU GV College</title>

<link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600&display=swap"
rel="stylesheet">

</head><body style='font-family: 'Poppins',sans-serif;background-
color:#f1f1f1;color:#333;padding:20px;'>

<!-- Header Section -->

<header style="background-color:#2C3E50;color:#fff;padding:15px;text-align:center;">

<h1>Data Science Internship</h1>

</header>

<!-- Internship Details Section -->

<div style="background-color:#fff;padding:30px;border-radius:8px;box-shadow:0 2px 10px
rgba(0,0,0,0.1);margin:20px auto;max-width:800px;">

<h2 style="text-align:center;">Internship Overview</h2>

<p style="font-size:1.1rem;line-height:1.6;margin-bottom:20px;">This internship provides practical
experience in data science, including data analysis, data visualization, and machine learning. You'll work
with tools like Python, pandas, NumPy, Matplotlib, and more to analyze large datasets and create
visualizations and predictive models.</p>

<h3 style="margin-top:20px;">Duration</h3>

<p style="font-size:1.1rem;line-height:1.6;margin-bottom:20px;">The internship lasts for 3 months, during
which you will complete weekly tasks and a final project.</p>

<h3 style="margin-top:20px;">Cost</h3>

<p style="font-size:1.1rem;line-height:1.6;margin-bottom:20px;">The internship is free of charge.
Exceptional participants will receive a certificate and letter of recommendation upon successful
completion.</p>

<a href="internship-portal.html" style="display:block;text-align:center;margin-top:20px;font-
size:1.1rem;text-decoration:none;color:#2C3E50;" onmouseover="this.style.color='#E74C3C'"
onmouseout="this.style.color='#2C3E50'">Back to Internship Portal</a>

</div>

<!-- Certificate Section -->

<div style="margin-top:50px;padding:40px;background-color:#fff;border:2px solid #2C3E50;border-
radius:10px;max-width:900px;margin:40px auto;text-align:center;">

```

```

<h2 style="font-size:2.5rem;margin-bottom:10px;">Certificate of Completion</h2>

<p style="font-size:1.1rem;line-height:1.8;margin:10px 0;">This is to certify that</p>

<p style="font-weight:bold;font-size:1.3rem;margin-top:20px;">[Participant Name]</p>

<p style="font-size:1.1rem;line-height:1.8;margin:10px 0;">has successfully completed the Data Science
Internship program at JNTU GV Vizianagaram. The program focused on data analysis, data visualization,
and machine learning using tools like Python, pandas, NumPy, and Matplotlib.</p>

<p style="font-size:1.1rem;line-height:1.8;margin:10px 0;">The participant has exhibited exceptional skills
and dedication during the course of the internship.</p>

<div style="margin-top:30px;font-size:1.1rem;display:flex;justify-content:center;align-items:center;flex-
direction:column;">

<p style="margin-top:5px;font-weight:bold;">Signature of Chancellor</p>

<!-- Chancellor's signature -->



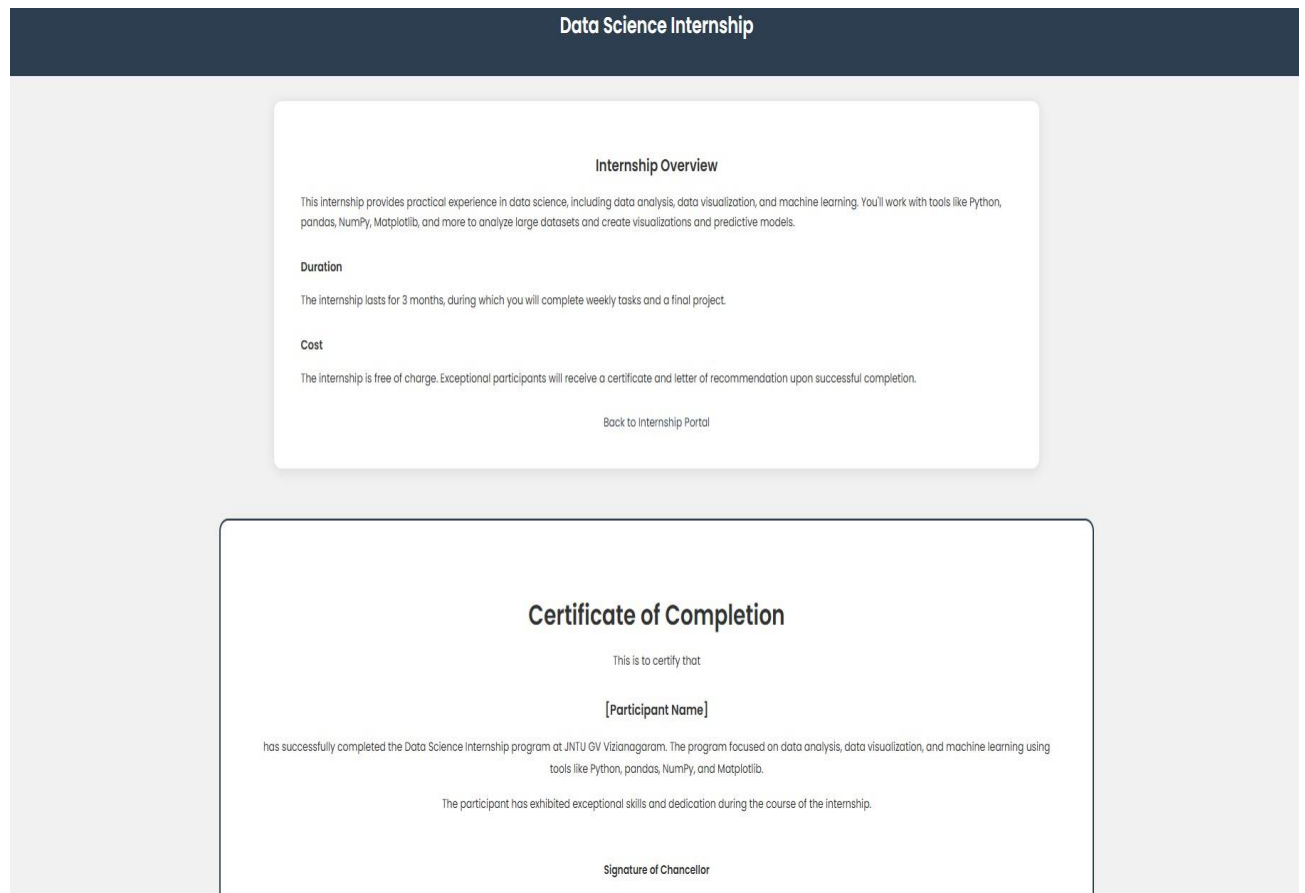
</div>

</div>

</body></html></html>

```

OUTPUT:-



18. About Template

The **About JNTU-GV** template is designed to provide detailed information about **Jawaharlal Nehru Technological University-Gurajada, Vizianagaram (JNTU-GV)** in an engaging and structured manner. This page ensures a user-friendly experience with an intuitive navigation system, dynamic content sections, and a visually appealing design.

1. Page Layout and Design

- The template has a **modern and responsive design** with a **gradient background** to enhance readability and aesthetics.
- A **fixed header** contains the university's **name, logo, and navigation bar**, ensuring easy access to different sections of the website.
- The **main content area** is structured into two sections:
 - A **sidebar** for navigation
 - A **content display area** for detailed information

2. Navigation and Sidebar

- The **navigation bar** provides quick links to other important sections of the website, such as **Home, Internships, About, and Account**.
- The **sidebar** allows users to explore different sections within the "About JNTU-GV" page:
 - About JNTU-GV**
 - Campus**
 - Departments**

4. Admission

1. Clicking on a sidebar item dynamically updates the main content area without requiring a page reload.

3. Content Sections

Each section of the **About JNTU-GV** page provides detailed information and is enhanced with images to make the content more visually appealing.

A. About JNTU-GV

2. This section introduces **JNTU-GV**, mentioning its establishment, purpose, and namesake **Gurajada Apparao**.
3. A relevant image of the university is displayed to give visitors a glimpse of the campus.

1. B. Campus

4. Describes the **university's location, size, and territorial jurisdiction** across Andhra Pradesh.
5. Includes an image showcasing the **campus infrastructure**.

1. C. Departments

6. Lists the various **engineering departments** offered at JNTU-GV.
7. Each department name is neatly formatted for clarity.
8. A relevant image represents academic life at the university.

1. D. Admission

9. Provides an overview of the **admission process** for undergraduate and postgraduate students.
10. Highlights the entrance exams such as **EAPCET, GATE, and PGECET** that determine eligibility.
11. An admission-related image adds visual interest.

5. Dynamic Content Display

12. By default, the "**About JNTU-GV**" section is displayed.
13. Clicking on a sidebar item **hides other sections and displays the selected one**, ensuring a smooth user experience.
14. A **fade-in animation effect** enhances the visual transition when switching between sections.

6. Mobile Responsiveness

15. The layout **automatically adjusts** on smaller screens for an optimal viewing experience.
16. Images resize, and the **content adapts** to ensure readability on **mobile and tablet devices**.

1. Conclusion

2. This template provides a **well-organized, visually appealing, and interactive** way to explore information about JNTU-GV. The combination of **structured navigation, dynamic content loading, and responsive design** ensures a seamless experience for students, faculty, and visitors

CODE:-

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>About JNTU GV University</title>

<style>

body {

    font-family: 'Poppins', sans-serif;

    background: linear-gradient(135deg, #2C3E50, #34495E);

    color: white;

    padding-top: 130px;

    margin: 0;

}

h2, h3, p {

    margin: 4px 0;

    line-height: 1.3;

}

nav a {

    color: #fff;

    margin: 0 10px;

    font-size: 1rem;

    text-decoration: none;

    padding: 8px 12px;

    border-radius: 5px;

    transition: background 0.3s ease;

}

nav a:hover {

    background: #1abc9c;
```



```

}

</style>

</head>

<body>

<header style="background:#2C3E50;color:#fff;text-align:center;padding:10px
0;position:fixed;top:0;left:0;width:100%;box-shadow:0 2px 10px rgba(0,0,0,0.2);z-index:1000;">

    <div style="display:flex;align-items:center;justify-content:center;gap:10px;">

        <div>

            <h2 style="font-size:18px;">JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA
VIZIANAGARAM</h2>

            <p style="font-size:13px;">VIZIANAGARAM-535 003, A.P</p>

            <p style="font-size:11px;">(Established by Andhra Pradesh Act No.22 of 2021)</p>

        </div>

    </div>

<nav style="background:#34495E;display:flex;justify-content:center;padding:5px;">

    <a href="{% url 'home' %}">Home</a>

    <a href="{% url 'internships' %}">Internships</a>

    <a href="{% url 'about' %}">About</a>

    <a href="{% url 'account' %}">Account</a>

</nav>

</header>

<div style="display:flex;align-items:flex-start;gap:15px;padding:30px 8%;">

    <div class="sidebar" style="flex:1;display:flex;flex-
direction:column;gap:10px;background:rgba(0,0,0,0.2);padding:15px;border-radius:10px;box-shadow:0
4px 10px rgba(0,0,0,0.3);">

        <h2 onclick="showContent('aboutContent')"
style="background:#E74C3C;color:white;padding:10px;border-radius:5px;cursor:pointer;text-
align:center;">About JNTU GV</h2>

```

```
<h3 onclick="showContent('campusContent')"
style="background:#E74C3C;color:white;padding:10px;border-radius:5px;cursor:pointer;text-align:center;">Campus</h3>
```

```
<h3 onclick="showContent('departmentsContent')"
style="background:#E74C3C;color:white;padding:10px;border-radius:5px;cursor:pointer;text-align:center;">Departments</h3>
```

```
<h3 onclick="showContent('admissionContent')"
style="background:#E74C3C;color:white;padding:10px;border-radius:5px;cursor:pointer;text-align:center;">Admission</h3>
```

```
</div>
```

```
<div id="aboutContent" class="content"
style="flex:3;background:white;color:#333;padding:15px;border-radius:10px;box-shadow:0 4px 15px
rgba(0,0,0,0.1);display:block;">
```

```
<h2>About JNTU GV University</h2>
```

```
<p>The Jawaharlal Nehru Technological University-Gurajada, Vizianagaram (JNTU-GV) is a public
university located in Vizianagaram, Andhra Pradesh. It was established on 12 January 2022. The university
was named after Gurajada Apparao, a noted Indian playwright, dramatist, poet, and writer known for his
works in Telugu theatre.</p>
```

```

```

```
</div>
```

```
<div id="campusContent" class="content"
style="display:none;flex:3;background:white;color:#333;padding:15px;border-radius:10px;box-shadow:0
4px 15px rgba(0,0,0,0.1);">
```

```
<h2>Campus</h2>
```

```
<p>The University is spread across an area of 80 acres (32 hectares) in Dwarapudi panchayat of
Vizianagaram district. The territorial jurisdiction of the university comprises three erstwhile north coastal
districts of Andhra Pradesh: Visakhapatnam, Vizianagaram, and Srikakulam.</p>
```

```

```

```
</div>
```

```
<div id="departmentsContent" class="content"
style="display:none;flex:3;background:white;color:#333;padding:15px;border-radius:10px;box-shadow:0
4px 15px rgba(0,0,0,0.1);">
```

```
<h2>Engineering Departments</h2>
```

```
<ul style="margin:5px 0 10px 20px;">
```

```
<li>Computer Science and Engineering</li>
```

```

</li>Civil Engineering</li>

</li>Electrical and Electronics Engineering</li>

</li>Electronics and Communications Engineering</li>

</li>Information Technology</li>

</li>Mechanical Engineering</li>

</li>Metallurgical Engineering</li>

</ul>



</div>

<div id="admissionContent" class="content"
style="display:none;flex:3;background:white;color:#333;padding:15px;border-radius:10px;box-shadow:0
4px 15px rgba(0,0,0,0.1);">

<h2>Admissions</h2>

<p>Students are admitted into the undergraduate programs based on their score in the Engineering
Agricultural and Pharmacy Common Entrance Test (EAPCET). Postgraduate admissions are based on
GATE or PGECET scores conducted by the Government of Andhra Pradesh.</p>



</div>

</div>

<script>
function showContent(sectionId){

    document.querySelectorAll('.content').forEach(content=>content.style.display='none');

    document.getElementById(sectionId).style.display='block';

    document.querySelectorAll('.sidebar h2, .sidebar h3').forEach(item=>item.style.background='#E74C3C');

    event.target.style.background='#0073e6';

}

```

```
</script>
```

```
</body>
```

```
</html></html>
```

OUTPUT:-



19. Account Template

This **Account Section Template** is designed for **user authentication and profile management** in the **JNTU-GV Internship Portal**. It allows users to **log in, sign up, and view their profile information** and is styled using **HTML, CSS, and JavaScript**.

Template Breakdown

1. HTML Structure

1. The template consists of:
2. **Header** - Displays the **university name and logo**.
3. **Navigation Bar** - Links to different pages of the **Internship Portal**.
4. **Account Section** - Contains:
 1. **Login/Signup Form** (if the user is not logged in).
 2. **Profile Display** (if the user is logged in).
 3. **CSS Styling**

4. Global Styling

5. Uses **Google Fonts (Poppins)** for a clean and modern look.
6. **Background color:** Light gray (#f8f9fa).
7. **Text color:** Dark gray (#333).
8. Uses **Flexbox** to center content.

1. Header & Navigation

9. **Fixed header (position: fixed;)**, ensuring it remains at the top while scrolling.
10. **Navigation bar (nav):**

1. Contains links to **Home, Internships, About, and Account**.
2. **Hover effect:** Changes color to **red (#E74C3C)** when hovered.
3. **Account Section (Login/Signup)**
4. **Login / Signup Form**

11. Includes input fields for **name, email, password, phone, and address**.
12. **File input** for **profile picture upload**.
13. **Toggle link** to switch between **Login and Signup**.
14. **Buttons** styled with a **dark blue (#004080)** background.
15. **Hover effect:** Darkens when hovered.

1. Profile Display

16. **Hidden by default (display: none;)**.
17. Displays **profile picture, name, email, phone, and address**.
18. **Logout button** (red, darkens when hovered).

3. JavaScript Functionality

1. User Authentication

19. **toggleAuthMode()** → Toggles between **Login and Signup** forms.
20. **handleAuth()** → Handles **login and signup logic**:
 1. On **signup**, stores user details in **localStorage**.
 2. On **login**, checks credentials and loads the **user profile**.

3. Profile Management

21. **showProfile(user)** → Displays the logged-in **user's profile**.
22. **logout()** → Logs out the user by removing their details from **localStorage**.

Profile Picture Upload

- Uses the **FileReader API** to **store and display** the uploaded **profile picture**.

How It Works

1. **When a user visits the page:**
 - If logged in → Their **profile is displayed**.
 - If not logged in → The **Login/Signup form is shown**.
2. **Signup Flow:**
 - The user **enters details and uploads a profile picture**.
 - The details are **saved in localStorage**.
 - After signing up, the user is prompted to **log in**.
3. **Login Flow:**
 - The user **enters their email and password**.
 - If credentials match, their **profile is displayed**.
4. **Logout:**
 - Clicking **Logout** clears the session data and **shows the login form**.

Key Features

1. **User authentication** (Login/Signup).
2. **Profile picture upload.**
3. **Persistent login using localStorage.**
4. **Mobile-responsive design.**
5. **Stylish UI with Google Fonts & Flexbo**

CODE

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Account Section</title>

  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600&display=swap"
rel="stylesheet">

  <style>

    *{margin:0;padding:0;box-sizing:border-box;}

    body{font-family:'Poppins',sans-serif;background:linear-
gradient(135deg,#34495E,#2a5298);color:white;text-align:center;padding-top:140px;display:flex;flex-
direction:column;align-items:center;min-height:100vh;}

    header{background:#2C3E50;color:#fff;text-
align:center;padding:15px;position:fixed;top:0;left:0;width:100%;box-shadow:0 2px 10px rgba(0,0,0,0.2);z-
index:1000;}

    .header-content{display:flex;align-items:center;justify-content:center;gap:15px;}

    .header-content img{width:80px;height:80px;}

    .header-text{text-align:left;}

    .header-text h2{margin:0;font-size:20px;}

    .header-text p{margin:0;font-size:14px;}

    nav{background:#34495E;display:flex;justify-
content:center;padding:10px;position:fixed;top:105px;left:0;width:100%;z-index:999;}

    nav a{color:#fff;margin:0 15px;font-size:1.1rem;text-decoration:none;padding:10px 15px;border-
radius:5px;transition:background 0.3s ease;}

    nav a:hover{background:#E74C3C;}

    #account{max-width:400px;margin-top:20px;padding:20px;background:rgba(255,255,255,0.2);border-
radius:10px;box-shadow:0px 4px 15px rgba(0,0,0,0.2);backdrop-
filter:blur(10px);opacity:0;transform:translateY(-20px);animation:fadeIn 1s ease-in-out forwards;}

    .account-form{display:flex;flex-direction:column;gap:10px;}

    .account-form input{width:100%;padding:12px;border:2px solid white;border-
radius:5px;background:transparent;color:white;outline:none;font-size:16px;}

    .account-form input:focus{border-color:#E74C3C;box-shadow:0px 0px 10px #E74C3C;}
```

```

.account-form button{padding:12px;background:linear-
gradient(90deg,#ff4e50,#f9d423);color:white;border:none;border-radius:5px;cursor:pointer;}

.account-form button:hover{background:linear-gradient(90deg,#f9d423,#ff4e50);transform:scale(1.05);}

.profile{display:none;text-align:center;opacity:0;transform:scale(0.9);animation:fadeIn 1s ease-in-out
forwards;}

.profile img{width:120px;height:120px;border-radius:50%;border:3px solid white;box-shadow:0px 0px
20px rgba(255,255,255,0.5);transition:transform 0.3s ease;}

.profile img:hover{transform:scale(1.1);}

.logout-btn{padding:12px;background:red;color:white;border:none;border-
radius:5px;cursor:pointer;transition:transform 0.3s;}

.logout-btn:hover{background:darkred;transform:scale(1.1);}

@keyframes fadeIn{from{opacity:0;transform:translateY(-20px);}to{opacity:1;transform:translateY(0);}}

@media (max-width:768px){nav{flex-wrap:wrap;}nav a{margin:5px;font-size:1rem;padding:8px 12px;}}
</style>
</head>
<body>
<header>
<div class="header-content">

<div class="header-text">
<h2>JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA
VIZIANAGARAM</h2>
<p>VIZIANAGARAM-535 003, A.P</p>
<p>(Established by Andhra Pradesh Act No.22 of 2021)</p>
</div>
</div>
</header>
<nav>
<a href="{% url 'home' %}">Home</a>
<a href="{% url 'internships' %}">Internships</a>
<a href="{% url 'about' %}">About</a>
<a href="{% url 'account' %}">Account</a>
</nav>
<section id="account">
<h2>Account</h2>

```

```

<div class="account-form" id="authForm">
  <input type="file" id="profilePic" accept="image/*">
  <input type="text" id="name" placeholder="Full Name (Only for Signup)">
  <input type="email" id="email" placeholder="Email">
  <input type="password" id="password" placeholder="Password">
  <input type="text" id="phone" placeholder="Phone Number (Only for Signup)">
  <input type="text" id="address" placeholder="Address (Only for Signup)">
  <button onclick="handleAuth()">Login / Sign Up</button>
  <p id="toggleText">Don't have an account? <a href="#" onclick="toggleAuthMode()">Sign
Up</a></p>
</div>
<div class="profile" id="userProfile">
  
  <h3 id="userName"></h3>
  <p><strong>Email:</strong> <span id="userEmail"></span></p>
  <p><strong>Phone:</strong> <span id="userPhone"></span></p>
  <p><strong>Address:</strong> <span id="userAddress"></span></p>
  <button class="logout-btn" onclick="logout()">Logout</button>
</div>
</section>
<script>
  let isSignUp=false;
  let users=JSON.parse(localStorage.getItem("users"))||{};
  function toggleAuthMode(){
    isSignUp=!isSignUp;
    document.getElementById("name").style.display=isSignUp?"block":"none";
    document.getElementById("phone").style.display=isSignUp?"block":"none";
    document.getElementById("address").style.display=isSignUp?"block":"none";
    document.getElementById("toggleText").innerHTML=isSignUp?`Already have an account? <a href="#"
onclick="toggleAuthMode()">Login</a>`:`Don't have an account? <a href="#"
onclick="toggleAuthMode()">Sign Up</a>`;
  }
  function handleAuth(){
    let email=document.getElementById("email").value;
    let password=document.getElementById("password").value;

```



```

if(isSignUp){
    let name=document.getElementById("name").value;
    let phone=document.getElementById("phone").value;
    let address=document.getElementById("address").value;
    let profilePic=document.getElementById("profilePic").files[0];
    if(!name&&!email&&!password&&!phone&&!address){alert("All fields are required!");return;}
    if(users[email]){alert("User already exists. Please login.");return;}
    let reader=new FileReader();
    reader.onload=function(e){
        users[email]={name,email,password,phone,address,profilePic:e.target.result};
        localStorage.setItem("users",JSON.stringify(users));
        alert("Signup successful! Please log in.");
        toggleAuthMode();
    };
    if(profilePic){reader.readAsDataURL(profilePic);}
    else{
        users[email]={name,email,password,phone,address,profilePic:"https://via.placeholder.com/120"};
        localStorage.setItem("users",JSON.stringify(users));
        alert("Signup successful! Please log in.");
        toggleAuthMode();
    }
}else{
    if(!users[email]||users[email].password!==password){alert("Invalid email or password!");return;}
    localStorage.setItem("loggedInUser",email);
    showProfile(users[email]);
}
}

function showProfile(user){
    document.getElementById("authForm").style.display="none";
    document.getElementById("userProfile").style.display="block";
    document.getElementById("profileImage").src=user.profilePic;
    document.getElementById("userName").innerText=user.name;
    document.getElementById("userEmail").innerText=user.email;
    document.getElementById("userPhone").innerText=user.phone;
}

```

```

    document.getElementById("userAddress").innerText=user.address;
}

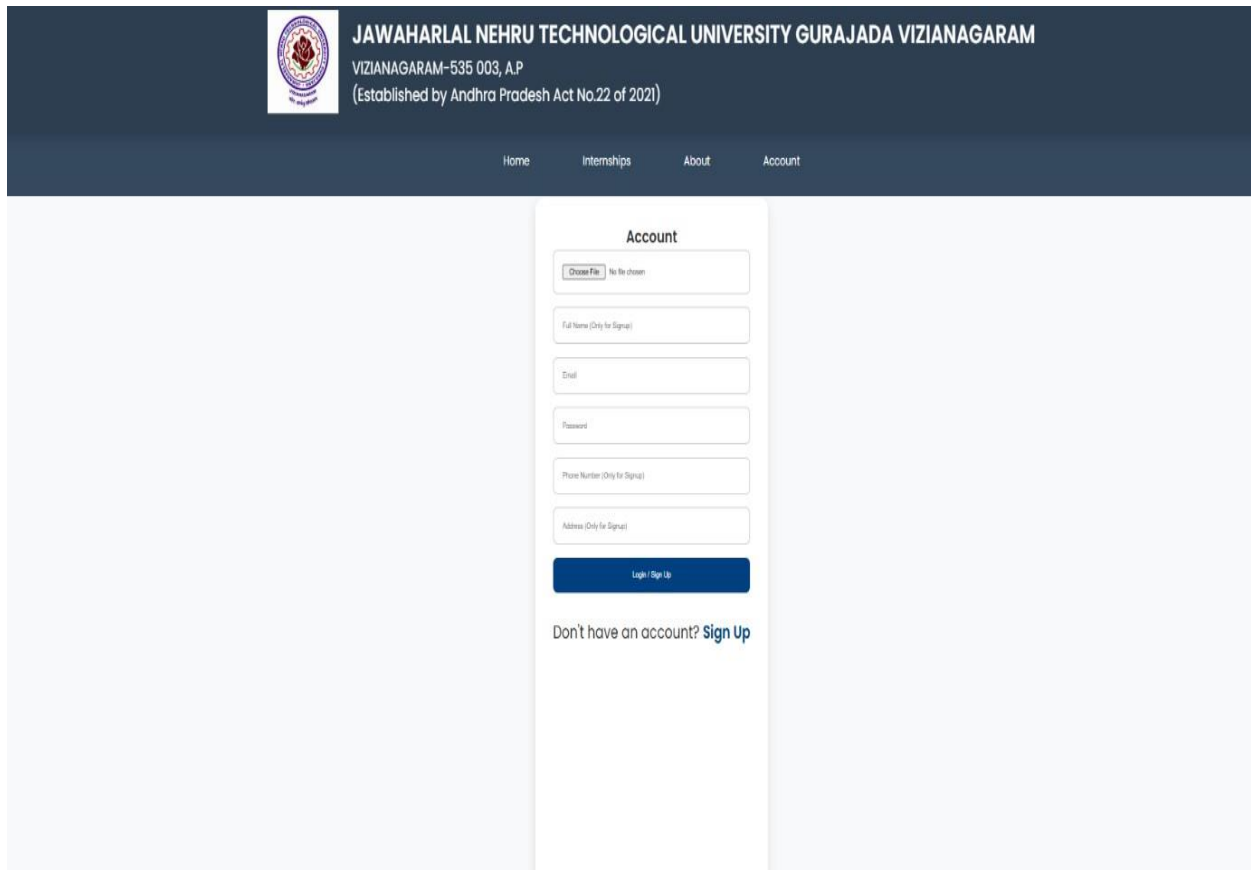
function logout(){
    localStorage.removeItem("loggedInUser");

    document.getElementById("authForm").style.display="block";
    document.getElementById("userProfile").style.display="none";
}

window.onload=function(){
    let loggedInUser=localStorage.getItem("loggedInUser");
    if(loggedInUser&&users[loggedInUser]){showProfile(users[loggedInUser]);}
};
</script>
</body>

```

</html> **OUTPUT:-**



The screenshot displays the website of Jawaharlal Nehru Technological University GURAJADA VIZIANAGARAM. The header includes the university's logo and name, along with its address and establishment details. A navigation bar contains links for Home, Internships, About, and Account. The main content area features a vertical form titled "Account" for user registration. The form includes fields for profile picture, full name, email, password, phone number, and address, each with a "Choose File" or "No file chosen" label. A blue "Login / Sign Up" button is positioned below the form fields. At the bottom of the form, there is a link for users who do not have an account to "Sign Up".



**DEPARTMENT OF INFORMATION TECHNOLOGY
JNTU-GURAJADA VIZIANAGARAM
COLLEGE OF ENGINEERING VIZIANAGARAM (A)
VIZIANAGARAM**

Dr.Ch. Bindu Madhuri
Asst. Professor & HOD

Email: hod.it@intugvcev.edu.in

1. Name of the Laboratory : Django Framework Lab
2. Name of the Student : K.Pravallika
3. Roll No : 23VV1A1223
4. Class : 2ND B.Tech 2ND Semester
5. Academic Year : 2024-25
6. Name of Experiment : Database In Djnago
7. Date of Experiment : 07-03-2025
8. Date of Submission of Report :24-03-2025

S.No	Ability And Activity	Weightage Of Marks	Day To Day Evaluation Score
1	Aim Objective, Tools required	3	
2	Theory, Algorithm and Observations	3	
3	Implementation	3	
4	Schematic diagrams,Architecture, workflow,Flowchart	3	
5	Tidiness of his/her working area, proper maintenance of system during and after experiment.	3	
	Total Score	15	

DATE:

Signature of Faculty:

20. Database In Django

Database in Django

In **Django**, the database is an essential component used to store, manage, and retrieve data using Django's **Object-Relational Mapping (ORM)**. ORM acts as a bridge between the application and the database, allowing you to interact with the database using Python code instead of raw SQL.

Django supports several databases like:

1. **SQLite** (default for development)

Database for JNTU-GV Internship Portal

You used **SQLite** as the database for both projects, which is an excellent choice for development and small to medium-scale applications. SQLite is a lightweight, file-based database that doesn't require a separate database server. It offers simplicity and reliability.

Internship Portal Database

1. **Tables and Models:**
2. **Student:** Stores student details like name, email, and branch.
3. **Company:** Contains internship provider information.
4. **Internship:** Details about available internships (e.g., AI, Web Development).
5. **Application:** Tracks student applications for internships.

Setting Up the Database

1. By default, Django uses **SQLite** (a lightweight, file-based database).
2. You can configure other databases like **MySQL**, **PostgreSQL**, or **Oracle** in the settings.py file.

CODE:-

```
# DATABASE configuration using SQLite as backend

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3', # Database engine (SQLite in this case)
        'NAME': BASE_DIR / 'db.sqlite3',      # Path to the database file in the project directory
    }
}
```

Example:-

```
from django.db import models

# Company model represents organizations offering internships
```

```

class Company(models.Model):
    name = models.CharField(max_length=100)      # Name of the company
    industry = models.CharField(max_length=100)  # Industry type (e.g., IT, Finance)
    location = models.CharField(max_length=100)  # Company location
    def __str__(self):
        return self.name                        # Display company name in admin panel and queries

# Internship model represents internship opportunities posted by companies
class Internship(models.Model):
    title = models.CharField(max_length=100)      # Title of the internship
    company = models.ForeignKey(Company, on_delete=models.CASCADE) # ForeignKey link to Company model
    description = models.TextField()              # Detailed internship description
    skills_required = models.CharField(max_length=200) # Skills required for the internship
    deadline = models.DateField()                 # Application deadline
    def __str__(self):
        return self.title                        # Display title in admin panel and queries

```



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Dr.Ch. Bindu Madhuri
Asst. Professor & HOD

Email: hod.it@intugycev.edu.in

1. Name of the Laboratory : Django Framework Lab
2. Name of the Student : K.Pravallika
3. Roll No : 23VV1A1223
4. Class : 2ND B.Tech 2ND Semester
5. Academic Year : 2024-25
6. Name of Experiment : Key Django Files
7. Date of Experiment : 07-03-2025
8. Date of Submission of Report :07-03-2025

S.No	Ability And Activity	Weightage Of Marks	Day To Day Evaluation Score
1	Aim Objective, Tools required	3	
2	Theory, Algorithm and Observations	3	
3	Implementation	3	
4	Schematic diagrams,Architecture, workflow,Flowchart	3	
5	Tidiness of his/her working area, proper maintenance of system during and after experiment.	3	
	Total Score	15	

DATE:

Signature of Faculty:

}

21. Explanation of Key Django Files

1. `Db.sqlite3` (Database File)

1. This is the default database file used by Django when SQLite is selected.
2. It stores all the data related to users, internships, applications, and other models.
3. The database is automatically created when running migrations.

2. `Admin.py` (Admin Panel Configuration)

1. This file allows customization of the Django Admin interface.
2. It is used to register models so they can be managed through the admin dashboard.
3. Admins can add, edit, delete, and view records from the database via the Django Admin panel.

3. `Apps.py` (App Configuration)

1. This file contains the configuration for the Django app (like `base` or `users`).
2. It helps Django recognize the app within the project.
3. The class in this file is automatically created when an app is generated.

4. `Models.py` (Database Models)

1. Defines the structure of database tables using Django's ORM (Object-Relational Mapping).
2. Each model represents a table, and its attributes represent columns.
3. Django automatically converts models into database tables when migrations are applied.

5. `Forms.py` (Forms Handling)

1. This file is used to create HTML forms using Django's Form API.
2. Forms in Django handle user input, validation, and data submission.
3. They help in managing sign-ups, logins, and internship applications efficiently.

6. `Views.py` (Request Handlers)

1. Contains functions or class-based views that process HTTP requests and return responses.
2. Each view connects to a URL and determines what data or template to render



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Email: hod.it@intugvcev.edu.in

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2. Name of the Student : K.Pravallika
3. Roll No : 23VV1A1223
4. Class : 2ND B.Tech 2ND Semester
5. Academic Year : 2024-25
6. Name of Experiment : Deploying Django Applications
7. Date of Experiment : 21-03-2025
8. Date of Submission of Report : 27-03-2025

S.No	Ability And Activity	Weightage Of Marks	Day To Day Evaluation Score
1	Aim Objective, Tools required	3	
2	Theory, Algorithm and Observations	3	
3	Implementation	3	
4	Schematic diagrams,Architecture, workflow,Flowchart	3	
5	Tidiness of his/her working area, proper maintenance of system during and after experiment.	3	
	Total Score	15	

DATE:

Signature of Faculty:

22. Deploying Django Web Application on Cloud

What is Deployment?

Deployment is the process of making a **Django web application live on the internet** so users can access it. This involves hosting your app on a **cloud server** like **AWS, Google Cloud, DigitalOcean, Heroku, or PythonAnywhere**.

Features

Scalability – Handle more users without performance issues.

Security – Protect user data with SSL and secure databases.

Global Accessibility – Users can access your app from anywhere.

Continuous Deployment - Easily update your app with new features.

Here's a step-by-step guide to **Register on GitHub, Create a Django website with login and registration pages, and Configure Django to handle static files**.

Step 1: Register on GitHub

1. Go to [GitHub](https://github.com) and click **Sign up**.
2. Enter your **Username, Email, and Password**.
3. Complete the verification and click **Create Account**.
4. Verify your email by clicking the link in your inbox.

Step 2: Push to GitHub

1. Initialize Git in your project:

git init

2. Connect to GitHub:

git remote add origin <https://github.com/your-username/django-login-app>

3. Add and commit changes:

git add .

git commit -m "Initial Commit: Login and Registration App"

4. Push to GitHub:

git branch -M main

git push -u origin main

You have successfully built a **Django website** with login, registration, and static file management.

Your code is now available on **GitHub**.

23. CONCLUSION AND ENHANCEMENTS

The University Internship Portal project is a robust and user-friendly web application designed to facilitate students in exploring and applying for internships in different domains such as Web Development, Artificial Intelligence, and Data Science. Built using Django, HTML, CSS, JavaScript, and SQLite, the platform provides an intuitive interface for students to access internship details, eligibility criteria, and application processes.

Key features of this project include:

- A dynamic user account system with login and signup functionality.
- A structured internship listing section categorized into Web Development, AI, and Data Science.
- An interactive About JNTU-GV page detailing the university's departments and admissions.
- A responsive UI/UX design for smooth navigation and usability.

Through this project, we successfully demonstrated how Django's MVC (Model-View-Controller) architecture helps in organizing web applications effectively while ensuring security, scalability, and maintainability.

Enhancements

To further improve the Internship Portal, several enhancements can be implemented:

1. Online Application & Resume Upload

- Currently, users can view and explore internships, but adding an application submission system would enhance usability.
- Students should be able to upload resumes and track their application status.

2. Admin Dashboard for Internship Management

- A dedicated admin panel for managing internship postings, approving applications, and communicating with students.
- Dashboard analytics to track internship applications and user engagement.

3. Integration with External APIs

- Connect with LinkedIn, Google, or GitHub APIs for seamless login and resume import.
- Fetch real-time internship updates from external job portals.

4. Automated Notifications

- Implement email and SMS alerts for internship updates, deadlines, and application status.
- Allow users to subscribe to notifications based on their interests.

5. Enhanced Security Measures

- Use OAuth and Two-Factor Authentication (2FA) for improved user security.
- Implement role-based access control (RBAC) to restrict unauthorized modifications.

6. Mobile Application

- Develop a mobile-friendly version or a dedicated mobile app to provide an enhanced user experience.

7. Chatbot Support

- An AI-powered chatbot to assist students with internship-related queries and application guidance.

8. Internship Reviews & Ratings

- Allow students to rate and review internships based on their experience.
- Helps future applicants choose the best internship programs.



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Dr.Ch. Bindu Madhuri
Asst. Professor & HOD

Email: hod.it@intugvcev.edu.in

1. Name of the Laboratory : Django Framework Lab
2. Name of the Student : K.Pravallika
3. Roll No : 23VV1A1223
4. Class : 2ND B.Tech 2ND Semester
5. Academic Year : 2024-25
6. Name of Experiment : Front-end Developer Certificate
7. Date of Experiment : 04-03-2025
8. Date of Submission of Report :

S.No	Ability And Activity	Weightage Of Marks	Day To Day Evaluation Score
1	Aim Objective, Tools required	3	
2	Theory, Algorithm and Observations	3	
3	Implementation	3	
4	Schematic diagrams,Architecture, workflow,Flowchart	3	
5	Tidiness of his/her working area, proper maintenance of system during and after experiment.	3	
	Total Score	15	

DATE:

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Front-End Developer Certificate By Infosys Springboard

