**College Name:- Dr Sudhakarrao Jadhavar Institute of Management and Technology**

**Project Title:- Portfolio Website using Flask**

**Project Mentor:- Prof Vanita Pawase Mam Student Name:- Omkar Patange**

**Email:-** [omkarpatange77@gmail.com](mailto:omkarpatange77@gmail.com) **Phone:-** [9921765634](.vscode)

**GitHub:-** <https://github.com/Omkarpatange010>

**Project Report**

**Objective:**

* The objective of this project is to design and develop a **personal portfolio website** using the **Flask framework** in Python.
* It showcases the developer’s skills, projects, and blogs, and provides a contact form for visitors to get in touch.
* The website is also **deployed on a cloud platform** for global accessibility.

**Concepts Used:**

* **Web Development** using Python and Flask
* **Routing and Templating** with Jinja2
* **Frontend Design** using HTML5, CSS3
* **File Handling** for storing contact messages
* **Cloud Deployment** using AWS

**Modules:**

1. **Home Page** – Displays user introduction and profile photo.
2. **Projects Page** – Lists projects with descriptions.
3. **Blog Page** – Contains blog posts related to technology and Flask.
4. **Contact Page** – Includes a form for visitors to send messages, stored in a text file

## **Technology Stack:**

|  |  |  |
| --- | --- | --- |
| | **Component** | | --- | | **Technology Used** |
| **Frontend** | HTML, CSS |
| **Backend** | |  | | --- | | Python (Flask Framework) |  |  | | --- | |  | |
| |  | | --- | | **Templating Engine** |  |  | | --- | |  | | |  | | --- | |  |  |  | | --- | | Jinja2 | |
| **Database/File Handling** | |  | | --- | | Text file (messages.txt) |  |  | | --- | |  | |
| |  | | --- | | **Cloud Hosting** |  |  | | --- | |  | | AWS EC2 |
| |  | | --- | | **IDE Used** |  |  | | --- | |  | | Visual Studio Code |

**Cloud Deployment:**

The project is hosted using **Render Cloud Service**, which automatically builds and deploys the Flask application from a GitHub repository.

**Deployment Steps:**

1. Push the project to GitHub.
2. Create a new web service on Render.com.
3. Connect the GitHub repository.
4. Set build command:

pip install -r requirements.txt

python app.py

**Outcome:**

The final website successfully demonstrates:

* Flask routing and dynamic content hosted
* Contact form with message storage
* Responsive design using HTML & CSS
* Cloud-hosted, publicly accessible personal portfolio

## **Conclusion:**

## This mini project provided practical experience in **web development, Flask framework, and Cloud Deployment**. It helped understand how backend logic, frontend design, and hosting integrate to create a complete web application.