

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

Project Title:- Portfolio Website using Flask

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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.