iNeuron inblog

iNeuron

Project Title	Online Admission Management System (Web Application)
Technologies	Flask/ Django
Domain	Eduction
Project Dificulties level	Intermediate

Problem Statement :

Create a web application for a student to apply for admission into colleges.

Approach: Implement the below feature in your application.

- Easy Registration process.
- Previous record data should be maintained properly.
- Academic yearly management.
- Accepted/ Rejected forms.
- Unique Id for the registered student.
- Students must upload their images.
- Document upload center.
- Customized reports for every student.
- An admission approval mechanism should be available.
- Test/Interview scheduling.

Technology:

- Python (Django /Flask)
- Database (SQLite, MySQL) Choose any database as per your preference.
- HTML
- Javascript, CSS, Bootstrap.

Project Evaluation metrics :

Code:

- You are supposed to write a code in a modular fashion
- Safe: It can be used without causing harm.
- Testable: It can be tested at the code level.
- Maintainable: It can be maintained, even as your codebase grows.
- Portable: It works the same in every environment(operating system)
- You have to maintain your code on Github.
- You have to keep your GitHub repo public so that anyone can check your code.
- Proper readme file you have to maintain for any project development.
- You should include basic workflow and execution of the entire project in the readme file on GitHub
- Follow the coding standards: https://www.python.org/dev/peps/pep-0008/

Database:

- You are supposed to use a given dataset for this project which is a Cassandra database.
- https://astra.dev/ineuron

Cloud:

- you can use any cloud platform for this entire solution hosting like AWS, Azure or GCP

API Details or user interface:

- you have to expose your complete solution as an API or try to create a user interface for your model testing. Anything will be fine for us.

Logging:

- Logging is a must for every action performed by your code use the python logging library for this.

Ops Pipeline:

- If possible, you can try to use AI ops pipelining for project delivery Ex. DVC, Mlflow , segmaker , Azure machine learning studio, Jenkins, Circle CI, Azure DevOps , Tfx, Travis CI

Deployment:

- You can host your model in the cloud platform, edge devices, or maybe local, but with a proper justification of your system design.

Solutions Design:

- you have to submit complete solution design strategies in HLD and LLD document

System Architecture:

- You have to submit a system architecture design in your wireframe document and architecture document.

Latency for model response:

- you have to measure the response time of your model for a particular input of a dataset.

Optimization of solutions:

- Try to optimize your solution on code level, architecture level and mention all of these things in your final submission.
- Mention your test cases for your project.

Submission requirements:

High-level Document:

You have to create a high-level document design for your project. You can reference the HLD form below the link.

Sample link:

HLD Document Link

Low-level document:

You have to create a Low-level document design for your project; you can refer to the LLD from the below link.

Sample link

LLD Document Link

Architecture: You have to create an Architecture document design for your project; you can refer to the Architecture from the below link.

Sample link

Architecture sample link

Wireframe: You have to create a Wireframe document design for your project; refer to the Wireframe from the below link.

Demo link

Wireframe Document Link

Project code:

You have to submit your code Github repo in your dashboard when the final submission of your project .

Demo link

Project code sample link :

Detail project report:

You have to create a detailed project report and submit that document as per the given sample.

Demo link

DPR sample link

Project demo video:

You have to record a project demo video for at least 5 Minutes and submit that link as per the given demo.

Demo link

Project sample link :

The project LinkedIn a post:

You have to post your project detail on LinkedIn and submit that post link in your dashboard in your respective field.

Demo link

Linkedin post sample link :