L7 Informatics Internship Program Assignment

Python Programming Round (Score : 10)

1. Create a Simple Python Application for a fictional ice cream parlor cafe that uses SQLite to manage,
   - Seasonal flavor offerings
   - Ingredient inventory
   - Customer flavor suggestions and allergy concerns

   As a user of the application should be able to,

   - Maintain a cart of my favorite products,
   - Should be able to search & filter the offerings,
   - Should be able to add allergens if they don't already exist

The public github link to be shared by the candidate to their corresponding placement coordinator for review from our end.

Scoring breakup
- Working application based on the instructions provided in the ReadMe.md file with steps to run the application (6)
- Documentation of test steps in the above ReadMe.md file to validate the application (1)
- SQL Query or ORM abstraction Implementation (1)
- Documentation of the code (1)
- Add a Docker file in the repo to build and run the application. Also update the ReadMe file with docker commands to run the application (1)

General Guidelines

When to Submit the assignment?

Please work with your placement coordinator for the date and time of submission since this is a time bound exercise which will expire in 24 hrs.

How to Submit the assignment?

The public github link to be shared by the student to their corresponding placement coordinator for review from our end.

What will the evaluator look for?

Evaluators would simply clone the above repo and follow the instructions in ReadMe.md file to start the application and review the code along

Good documentation with <u>originality</u> in code.

What to focus on?

Python coding standards in the backend and application should run as expected across machines just by following the instructions on the ReadMe.md file.

What to avoid as part of the solution?

Code from external sources (internet, chatgpt emitted code). Note, we have parsers which would detect if you copy from any other git / stack overflow / chatGPT. We would reject the submission if our tools signal positive for such code.

<u>FAQs:</u>

- Can I look up the internet for documentation?

   Yes, this is expected for learning

- Can I reuse code from the internet?

   No, we have parsers which would detect if you copy for any other git / stack overflow / chatGPT. We would reject the application if our tools signals positive

- What is the expectation from this remote coding exercise?

   We are looking for candidates who have done python coding as part of their projects and are passionate about programming and bring originality in their work.

- What are the next steps?

   Once we review the code the shortlisted candidates would be invited for an F2F interview where we would go through the project together to seek your feedback and understanding on the choices done for solving this assignment. This would be followed by a managerial interview and offer.