TEST

Vegan/s

Assignment: RESTful area and perimeter service

Requirements

It is required an application to provide a service that calculates the perimeter (or circumference) and area of an indefinite number of geometric figures.

- Develop an application that provides two RESTful endpoints, one for perimeter calculation and one for area calculation.
- Specify the type of geometric figure (triangle, square, rectangle, circle, etc.) as a parameter in the request, common to both APIs
- The other input parameters vary case by case
- Implement input data validation to ensure that all necessary parameters are provided and are valid for the specified type of geometric figure.
- Utilize an appropriate architectural pattern to dynamically handle area and perimeter calculation based on the specified type of geometric figure.
- Managing the different situations with IF and SWITCH statements is not allowed (the geometric figures could be N).
- Ensure that the code is clean, well-structured, and easily extendable.
- Handle exceptions, logging and output error messages in validation.
- Include unit tests to verify the correct operation of the service for various possible geometric figures, including input data validation.

Final Remarks

Feel free to use the attached [Spring Boot](https://spring.io/projects/spring-boot) skeleton project or implement the solution from scratch.
Apply best software design and development practices. Document your solution appropriately.

How to submit your solution

- Develop on a branch and create a merge request once you are done.

– Upload your code to the Git's repository we shared with you previously via email, and let the HR recruiter task is done.

Good luck!