Assignment 9A

This assignment is due for submission before the specified deadline.

You have been assigned a project to design a modular architecture for a product. The project requires you to create a design document that outlines the key functions of the product and the allocation of these functions to the appropriate modules.

1. Describe the architecture of the product, including the main modules and how they interact. Identify the key functions of the product.

2. What are the factors that affect architecture modularity?
   - Customer requirements
   - Product changes
   - Functional analysis

3. Give an example of an example for excellent modularity.
   - Airplane
   - Computer
   - Office furniture
   - Dell laptops

4. Which of the following belongs to basic clustering method?
   - Creating a rough geometric layout
   - Creating the functional structure

5. Which of the following is not a limitation of the clustering method?
   - Not scalable current and future needs
   - No systematic procedure for identifying modules
   - Product families are not well defined

6. Identify the type of modular architecture in the figure shown below.

7. Identify the type of modular architecture in the function structure of a pencil sharpener.

8. Identify the type of modular architecture and the function structure of a pencil sharpener.

9. The method of allocating modules based on functional dependencies is called
   - Modular hierarchy
   - Part of the product
   - Mix modularity

10. Identify the type of modular architecture based on the function structure of a pencil sharpener.

11. Describe a complete solution of how the product will satisfy the customer needs.

Due on 2020-11-18, 23:59 IST