Assignment 4

Ques1: Explain the role of design concepts in software development. How do abstraction, refinement, and modularity contribute to effective software design?

Ques2: Describe the importance of cohesion and coupling in software design. How do these concepts impact the maintainability of software?

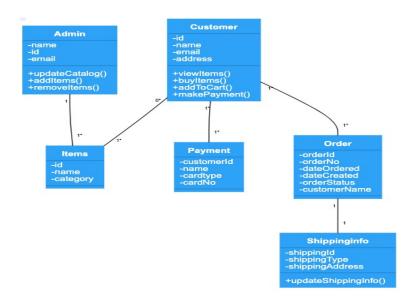
Ques3: How do data design, architectural design, and component-level design fit into the overall design model?

Ques4: What is software architecture, and why is it critical in the software development process?

Ques5: Explain the process of component-level design in software engineering. How do UML diagrams aid in modeling component-level design?

Ques6: Create a flowchart for a simple software module using procedural design principles. Explain each step in the process.

Ques7: Explain how object-oriented design principles are applied in the below design.



Ques8: How does data become information in the context of software systems? Discuss the process and its significance.

Ques9: Develop a dataflow diagram (DFD) for an online shopping system. Discuss the levels of DFD and the significance of each level.