 Software Design Telescope 		gn Techniques:
		Modularization: A modular design is an effective decomposition of a problem. In this technique, we decompose the problem into smaller modules that have limited interaction with each other. The main advantage is that each module can be understood separately. This reduces the perceived complexity of the design. A design is said to be highly modular when the cohesion of the module is high and the coupling between the modules is low. Layered Design: Layering is also a good design technique. When call relations are displayed among different modules, it is like a tree-like structure with clear layers. (modules are arranged in a hierarchical way). A module of a higher level can only access or invoke functions of a module just below it. This design mainly implements control abstraction. (lower layers have no idea about the upper layers). One of the main advantages is that when an error is detected in a module, and it invokes the function just below it we can easily trace the error. Hence, debugging becomes easy. Top-Down Decomposition: In this technique, we try to break down the functional
		aspect of the problem. We can treat the system as a block box providing some
		functions or services. These high-level functions are decomposed into several low-
		level functions. So, this provides a clear understanding to implement the function.
2.	Unified Proce	
		Unified Process is a software development framework for object-oriented modelling. It is designed and documented using UML. The two main characteristics of the
		unified process are use-case-driven and iterative.
		Use-case driven means the use-case model (customer's view) is made central to the
		design and all other designs are made around it. This use-case model is refined
		iteratively.
		This process involves iteration over 4 distinct phases:
		o Inception
		ElaborationConstruction
		ConstructionTransition
		Inception: This is the initial phase of the project. Proper communication is
		established with the customer and planned properly. Requirements are taken and the scope of the project is examined. The project plan, milestones and description are made.
		Elaboration: The function and non-functional requirements are described. The
		preliminary use-case model and domain models are developed in this phase.A detailed evaluation and development plan is carried out.
		Construction: The design and implementation activities are carried out. Each use-
		case is clearly written and implemented. Each new use case is taken up in a new
		iteration. These features are implemented in short iterations and are tested. After
		each iteration is finished it should be able to be executable. Transition: In this phase, the product is installed in the user's environment and
		maintained. This is the transition from development to production.
3.	A unified prod	cess is not required for this project. Assuming that the accounting framework for a
	•	ation is a small-scale project, the unified process becomes a burden for a small-scale
		of the reasons are:
		A unified process is basically used to address large complexity (large projects). As this
		project is a small-scale one, it isn't that complex.
		This process is a process-intensive method and involves a high amount of documentation, activities, and phases. So this becomes a burden for small-scale projects.

	Even, a unified process takes a lot of time to finish the cycle and iterations and might		
	not meet the time given to a small-scale project.		
	The unified process is not very flexible compared to other methodologies and		
	requirements for a small-scale project keep changing.		
	A unified process requires more developers and is expensive to implement. So, it is		
	designed for projects having extensive resources. As this project is done by a small		
	organization, this process isn't suitable.		
Hence unified process is not suitable for this project, and we can go with other simple			
methodologies such as the waterfall model, spiral model etc.			
As this information framework project is a large-scale process and involves extensive use of			
resources unified process is a good choice to implement this.			
	The project is highly complex and involves a large team. So, using a unified process		
	helps to tackle the complexity by refining the use-case diagram through proper		
	communication with the customer.		
	As the organization is large and a lot of resources are available unified process can be		
	affordable at such scales.		
	As this retail chain is huge, the system needs to be regulated continuously. A unified		
	process supports iteration to develop a system, so it is a good choice.		
	Even the requirements are also fixed, and we do not need flexibility. Unified		
	processes do not offer much flexibility and requirements are taken in the inception		
	phase and the use-case diagram is refined.		
	This project also carries significant risks along the way. A unified process implements		
	proper risk assessments for large-scale projects.		
	As the project is for a large company, we need proper milestones or objectives to		
	show the company. In a unified process, the project is executable at each iteration.		
	This also helps in breaking down the functionalities into different iterations.		
	This process also helps us maintain quality. After each phase and iteration, certain		
	goals are set. If the goals are not met at the end of the phase, we need to redo the		
	phase helping to maintain the quality of the project.		
Hence, the Unified process is a good choice for this project.			

4.