



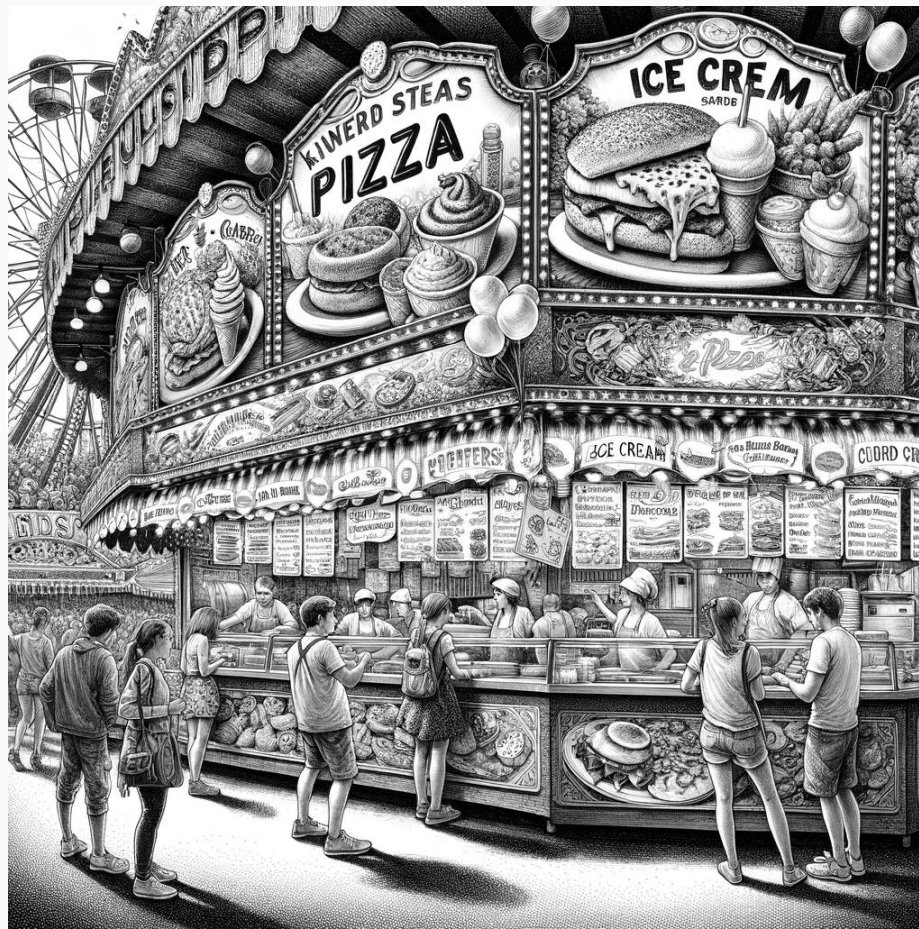
SDET Course

Design Patterns - Factory Method

- Creational
 - Singleton
 - Builder
 - Prototype
 - **Factory Method**
 - Abstract Factory
- Structural
 - Adapter
 - Composite
 - Proxy
 - Flyweight
 - Bridge
 - Facade
 - Decorator
- Behavioral
 - Strategy
 - Observer
 - Command
 - Memento
 - State
 - Template Method
 - Mediator
 - Chain of Responsibility
 - Interpreter
 - Visitor
 - Iterator

Agenda

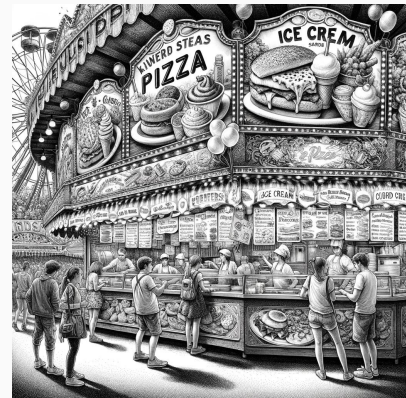
- Description
- Diagram
- Code sample (Java)
- Use cases



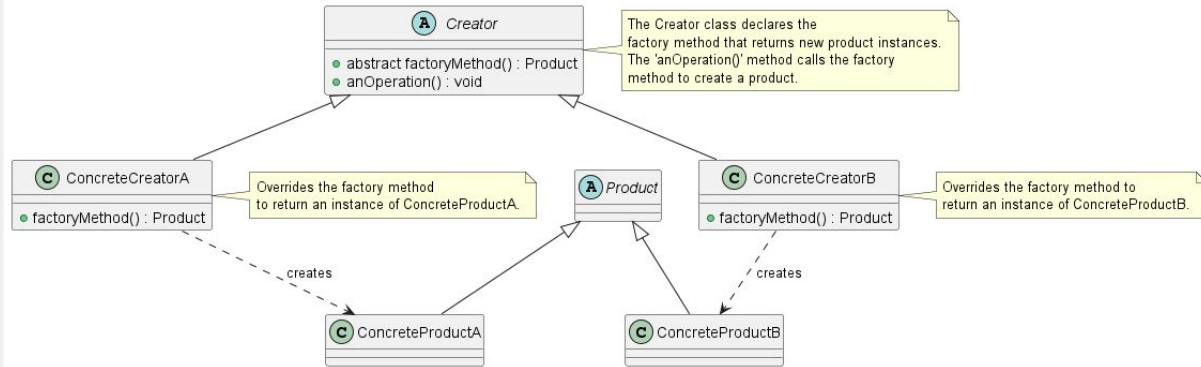
Description

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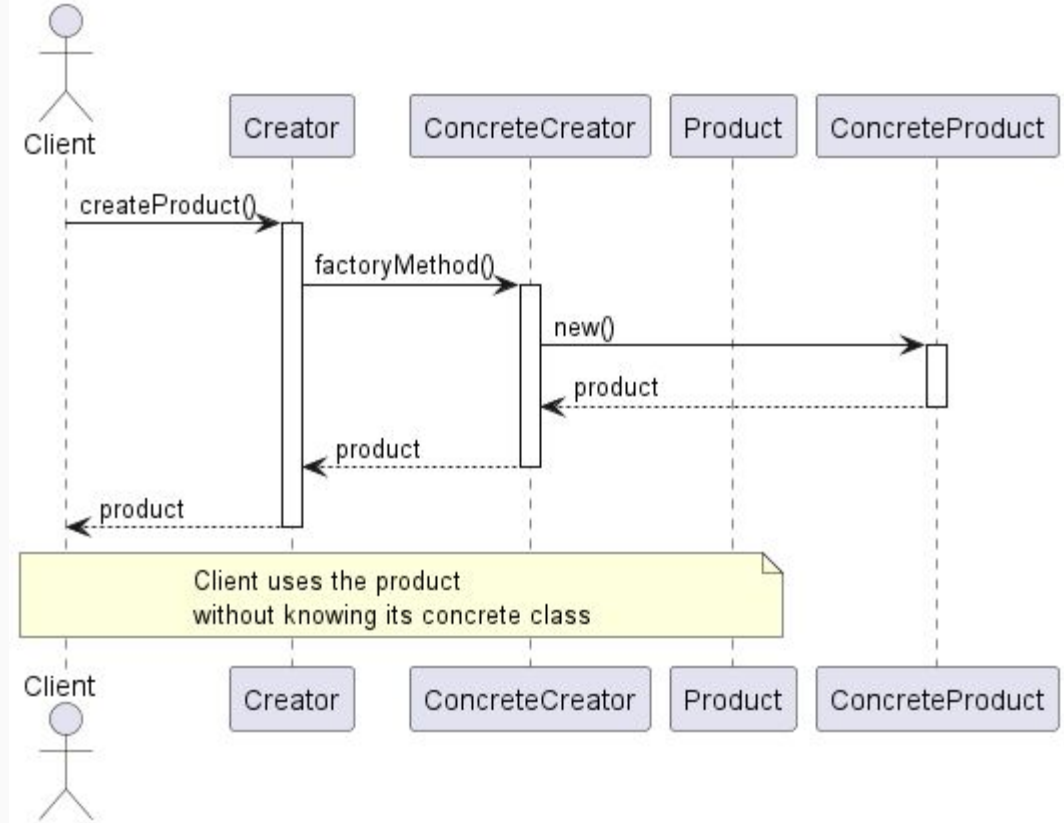
The Factory Method Design Pattern is a creational pattern that provides an interface for creating objects in a superclass but allows subclasses to alter the type of objects that will be created. This pattern is particularly useful when there is a need to encapsulate the instantiation process of a product, making a class independent of how its objects are created, composed, and represented.



Class Diagram



Sequence Diagram



Code Sample

- General
 - Browser Instance Creations
 - Data export (pdf, csv, xlsx)
 - UI component different OS
- In Test Automation
 - Browser instance creation
 - Test data generation
 - Configurable test environment setup
 - Page objects factory

Happy Coding