

Design Patterns

Template Method Pattern

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Template Method Pattern

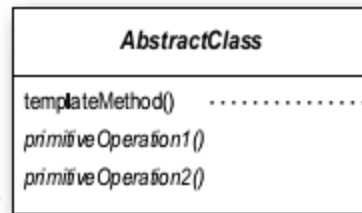
- * defines the skeleton of an algorithm in a method, deferring some steps to subclasses. Template Method lets subclasses redefine certain steps of an algorithm without changing the algorithm's structure.

Template Method Pattern (cont.)

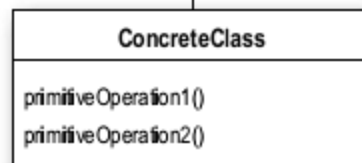
The template method makes use of the primitiveOperations to implement an algorithm. It is decoupled from the actual implementation of these operations.

The AbstractClass contains the template method.

...and abstract versions of the operations used in the template method.



primitiveOperation1();
primitiveOperation2();



There may be many ConcreteClasses, each implementing the full set of operations required by the template method.

The ConcreteClass implements the abstract operations, which are called when the templateMethod() needs them.

References

- * O'Reilly – Head First Design Pattern by Eric Freeman & Elisabeth Freeman (2004).
- * CRC Press – Software Architecture Design Pattern in Java by Partha Kuchana (2004).