Abstract Factory Pattern

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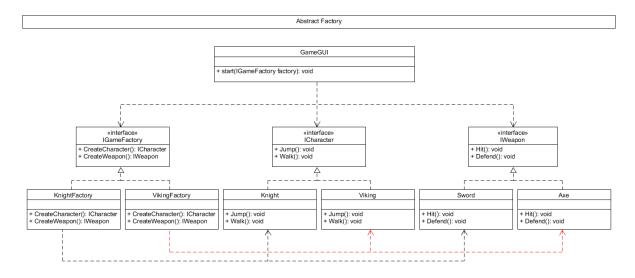
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Application Description: The application represents a game with some characters, weapons, etc. The GameFactory can create a character or a weapon. A character can jump or walk. Possible weapons for character are Sword and Axe. A weapon can be used for hitting or defending.

Abstract Factory is a creational design pattern that lets you produce families of related objects without specifying their concrete classes.

- Reusability
- Extensibility
- Maintainability

Design Pattern Solution



Consequences

- Positive consequences
 - 1. Follows the Open/Closed Principle.
 - 2. Allows building families of product objects and guarantees their compatibility.
 - 3. Avoids tight coupling between concrete products and code that uses them.
 - 4. Divides responsibilities between multiple classes.
- Negative consequences
 - 1. Increases overall code complexity by creating multiple additional classes