

Factory Method: Creational Design Pattern

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1 Intent

- Define an interface for creating an object but let the subclass decide which class to instantiate.
- Factory method lets a class defer instantiation to subclasses

2 Benefits

- Code for interface rather than implementing concrete classes.
- Less coupling. provides the developer to add additional updates without changing main codes.

3 Examples

3.1 Website Payment

A shopping website has only two payment methods. Credit Card, Cash On Delivery. As the popularity of **bKash**, **Rocket** and **Upay** increased the marketing manager instructs the website developer to update the website's backend such that for any future update on website's payment methods the payment options can be add easily.

Solution using Factory Method attached in the folder