```
class A {
    private B b;

    A() {
        this.b = new D();
    }
}
```

interface

class A itself is responsible for creating object of B

No DI

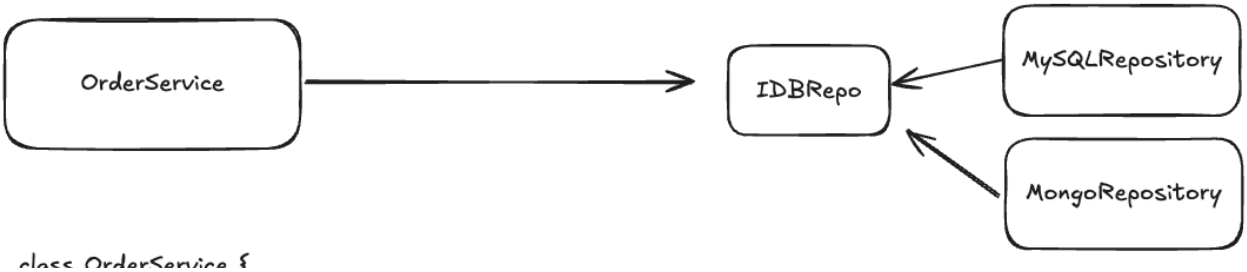
```
class A {
    private B b;

    A(B _b) {
        this.b = _b;
    }
}
```

Now class A, is not responsible for creating an object of B,

someone will separately create it and provide it to A.

DI

```
class C implements B

class D implements B

A newobj = new A(new C());

A newobj1 = new A(new D());
```

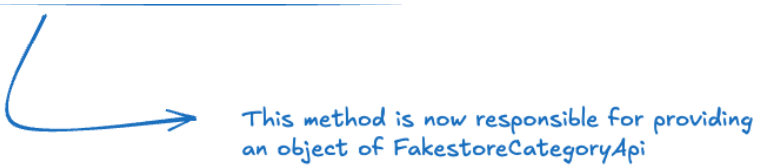



```
class OrderService {
```

```
    private final IDBRepo repo;

    public void doSomething() {
        ....
        repo.getAllOrders();
    }

}
```

```
class A {

    public B b;

    constructor() {

        this.b = new C();
    }


    public void doSomething() {

        this.b = new D();
    }

}
```

Controller ----> Service ---> Gateway


This method is now responsible for providing
an object of FakestoreCategoryApi