

All repository classes are going to be singleton classes. Wherever they are needed, they should be accessed through the static methods to get instance of needed repository class.

Direction class implements the factory method pattern. In this way, we differentiate two types of directions, long and short. This makes it easier to later add more direction classes.

Proxy class controls the modification of recipes based on the given access level.

Flyweight pattern is used to split up recipes based on the ingredients the user has which will be displayed on the page: whether he has some missing ingredients or if he has all of them.