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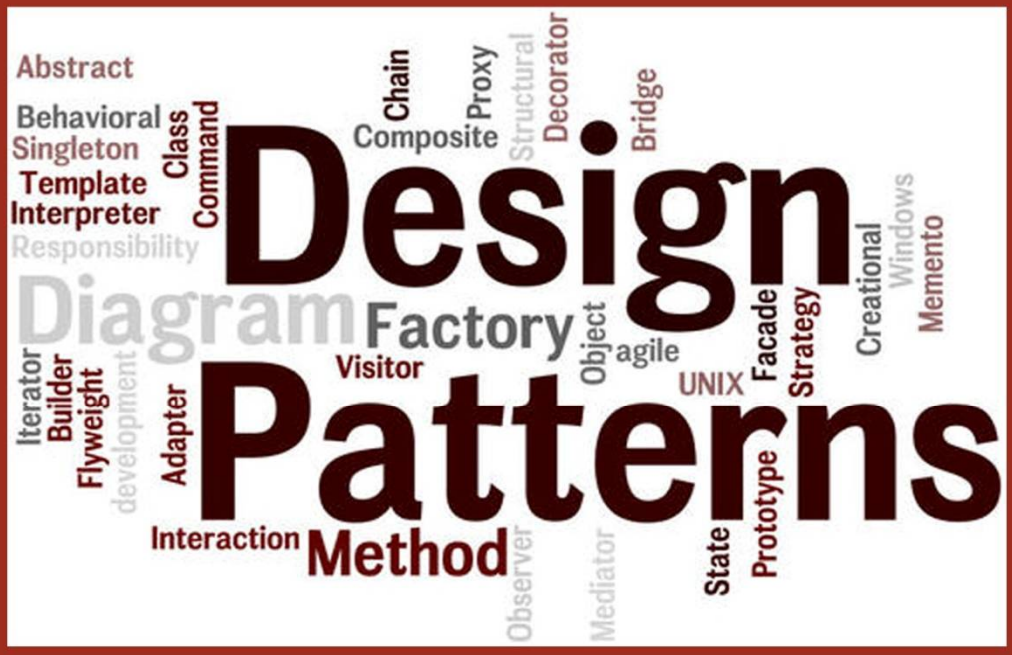
Design Patterns

Core Level Design Patterns

3. Synchronized Singleton Java Class



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Synchronized Singleton Java Class

Problem: If multiple threads are acting on a single object of (singleton) java class simultaneously or concurrently, then there is a possibility of getting data corruption.

Solution: take the support of synchronization which allows only one thread at a time to manipulate object data.

- To make the object of singleton java class as thread safe object, it is recommended to work with synchronized singleton java class. For this make factory method of singleton java class as synchronized method.

Ex: Change the static factory method of the above sample code as shown below.

```
//static factory method
public static synchronized Demo getInstance()
    {
        // Singleton Logic
        if (instance == null)
            instance = new Demo();
        return instance;
    }
```

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