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Discussion 3.1

Web 330

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Design Patterns

Software design patterns are formalized best practices that a developer can use to build an application. In programming there is a concept with an acronym called DRY. In essence, DRY means that you do not want to repeat yourself because it makes readability worse as well as takes longer time to develop and to process. Design patterns can be applied to any application and are reusable which makes the development process faster. One of the biggest advantages in design patterns is that agencies can have a more formalized and maintainable way of writing an application across all developers.

One of the biggest arguments against design patterns occurs when using them incorrectly or overusing them. The smartest ways to use design pattern is to create functions to remove a functionality that is used often. In an example by Web Dev Simplified, he uses the fetch API and uses the Facade design pattern. In this design pattern, he takes the fetch API call and optimizes his code by writing a function that takes care of the API call. In his example, he was using the fetch api function twice to get different information. Since it is the same API you are able to use parameters in a function to combine both fetch calls. This way the code is more reusable and clean. This is an example of creational design patterns. According to Source Making, While class-creation patterns use inheritance effectively in the instantiation process, object-creation patterns use delegation effectively to get the job done. This means that design patterns are flexible and can be used in different ways.

Reference List

Web Dev Simplified. “*Facade Pattern – Design Patterns.”* YouTube. 12 October 2019.

<https://www.youtube.com/watch>[?](https://www.youtube.com/watch?v=fHPa5xzbpaA&list=PLZlA0Gpn_vH_CthENcPCM0Dww6a5XYC7f&index=5) v=fHPa5xzbpaA&list=PLZlA0Gpn\_vH\_CthENcPCM0Dww6a5XYC7f&index=5

Source Making. “*Design Patterns.”* sourcemaking.com. Accessed 20 January 2021.

<https://sourcemaking.com/design_patterns>