

1. Briefly explain the MVC Architecture (cite a real-world scenario of the MVC architecture)

The MVC Architecture is a pattern that separates an application into three main logical components which are the Model, View, and Controller. The model represents the data of the application. The view is the user interface, while the controller handles the inputs that updates the model if needed. When a user interacts with a view in the application, the view alerts the controller of the things that might happen. Next, the controller will update the model and will result to a change in the view or in the interface.

A possible example application of the MVC is when doing online shopping. The view is the page or the application itself that users interact with. In online shopping, it can display the products and orders which serve as a view. On the other hand, the model is the data that relates to the products or users themselves. It can be responsible for processing transactions and updating the stock of a particular product. Lastly, the controller is the one who serves as an intermediary between the model and the view. When a user adds a specific product to their cart, it is the controller who updates the cart in the model and alters the view to show the updates that have changed.

2. If you are going to create a website that showcases your work portfolio, do you need to apply the MVC Architecture? Why or why not?

The choice to apply the MVC Architecture in a website to showcase work portfolio depends on the complexity of the website. If I am planning to create a very simple and static website, I may not implement the MVC as it does not need complex user interactions. However, if I wish to create a scalable and maintainable website, then I will apply the architecture as it can make it much easier to maintain and update to make it a better website. For me, it is much better and more beneficial to integrate the MVC architecture for the website's growth if ever I will decide to create more interactive features for my work portfolio website. As a work portfolio showcases a web developer's skills, making the website more scalable or dynamic can help you get a positive impression to the employers.