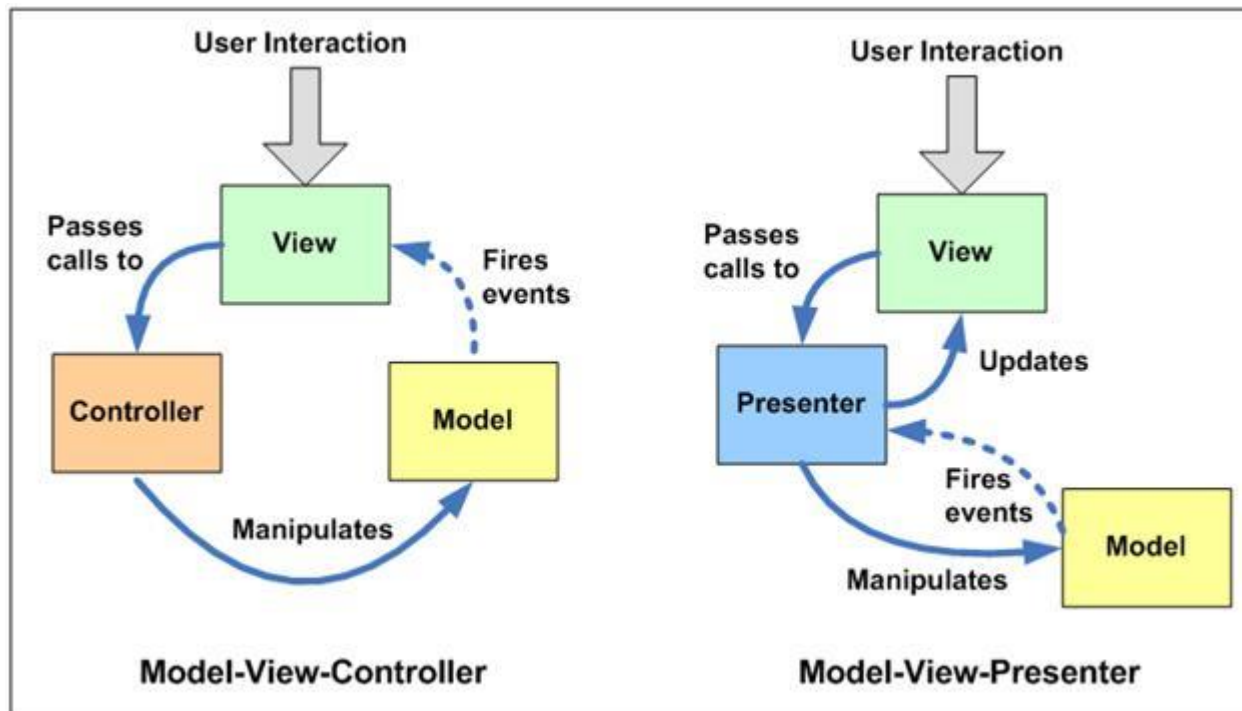# Sitecore Model View Presenter

Sergiu Muresan

Model–View–Presenter (MVP) is a derivation of the Model–View–Controller (MVC) architectural pattern, and is used mostly for building user interfaces.

- **The model** is an interface defining the data to be displayed or otherwise acted upon in the user interface.
- **The presenter** acts upon the model and the view. It retrieves data from repositories (the model), and formats it for display in the view.
- **The view** is a passive interface that displays data (the model) and routes user commands (events) to the presenter to act upon that data.

MVC vs MVP

Why use MVP?

- It makes it possible to replace a UI framework with a different UI framework without rewriting everything.
- It makes it possible to reuse the UI logic in desktop, mobile and web user interfaces
- It makes it easier to test the UI logic without setting up the entire runtime environment or simulating user interactions (clicks, text inputs, etc.).
- It separates the UI logic from the UI construction code.
- Presenter unit tests are easy to write

QUALITY. PRODUCTIVITY. INNOVATION.

Testability

- Unit Tests:
  - Tests a single component in complete isolation, mocking
- Integration tests:
  - Tests how different components work together in an isolated environment.
- Acceptance tests:
  - Tests that the system is doing what the stakeholders expect it to do and nothing else
  - Runs on the same level as the integration tests. If you can implement and run an integration test, you can also implement and run an acceptance test.

Demo
https://github.com/sergiumuresan/SitecoreMVP

Thank you

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