Model – View – Controller

Debugging

Model – View – Controller (MVC)

- A Software Architectural Pattern
 - Much like a design pattern
 - It uses design patterns
- Provides low coupling in User Interface systems.

MVC Key Idea

Break application into 3 logical components

Model:

Holds the state of the application and logic/rules of how state can be updated.

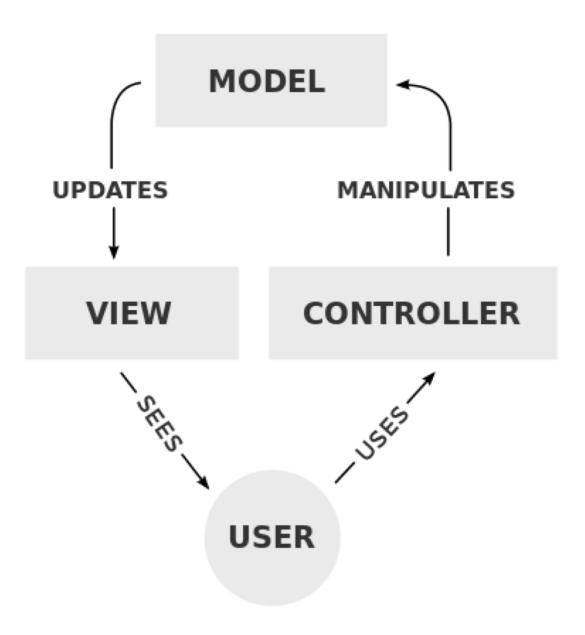
View:

Output representation of information

Controller:

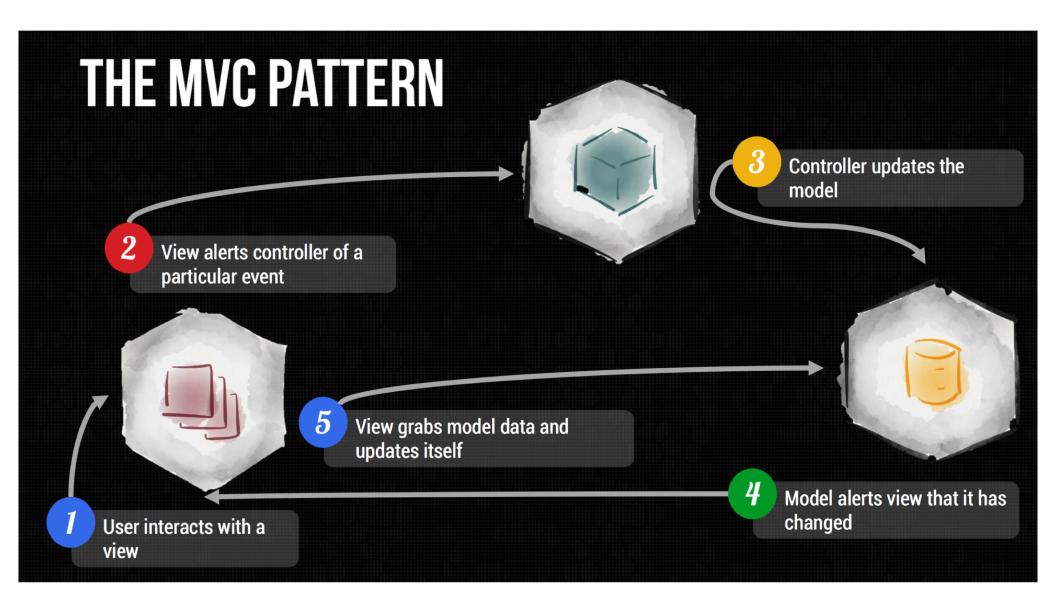
 Accepts user input and translates it into commands for the model or a view

Decouple interface from application state



Low Coupling from Views/Controllers to Model

- Model code is independent from interface
- Can support many different views
 - Simultaneously or one-at-a-time (e.g., summary vs. detail)
 - Use Observer pattern to attach Views to Model
- Can support many different controllers



How hard was Better Linked List?

- A. Easy
- **B.** Moderate
- c. Challenging
- **D.** Unreasonable

How long did it take to complete Better Linked List?

- A. Less than 3 hours
- B. 3 to 6 hours
- c. 6 to 9 hours
- **D.** 9 to 12 hours
- E. More than 12 hours

Debugging