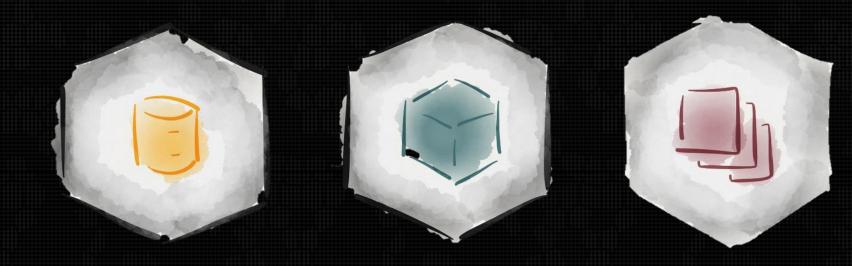


VIEW CONTROLLER

MODEL VIEW CONTROLLER (MVC)

• Software architecture pattern that separates the model, the user interface and control logic of an application in three distinct components.



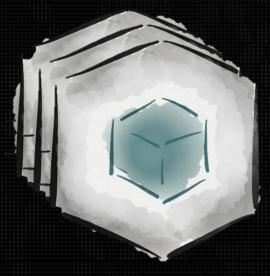
 MVC proposes the construction of three distinct components. One side for the representation of information, and on the other hand for user interaction.



One model



Many Views

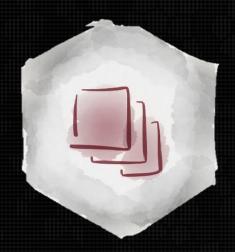


Many Controllers



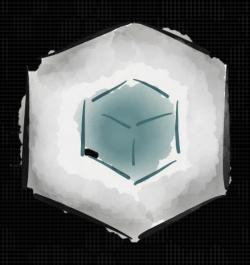
The Model

Representation of domain data. Business logic Persistence mechanism



The View

User Interface Interaction elements



The Controller

Intermediary between Model and View It maps user actions - model actions Select the view and provide information to itself

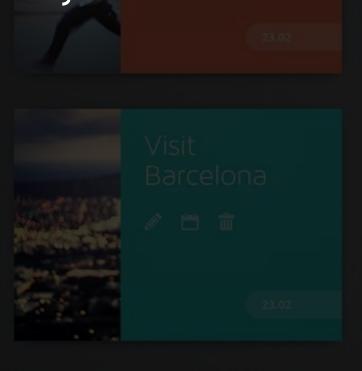
THE MODEL

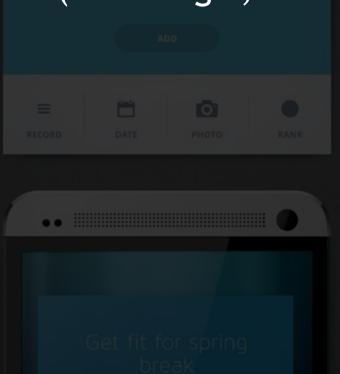
It is the specific representation of the information with which the system operates. Logic ensures the integrity of data and allows to derive it.





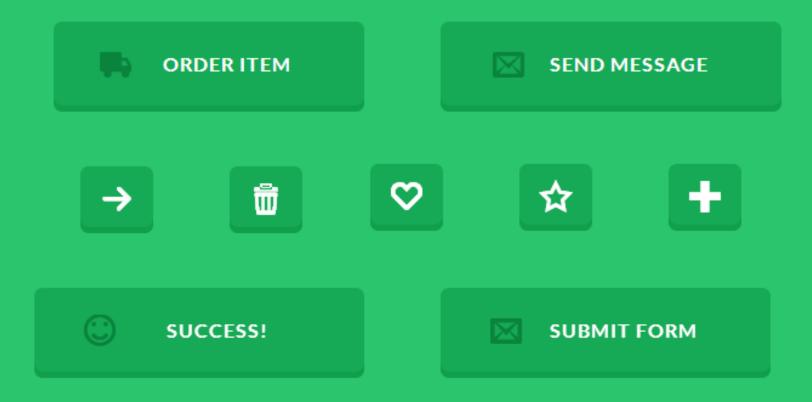
Represents the model in a suitable format to interact and access the data, usually called "User Interface" (Razor Pages, GUI Java, HTML, XML).





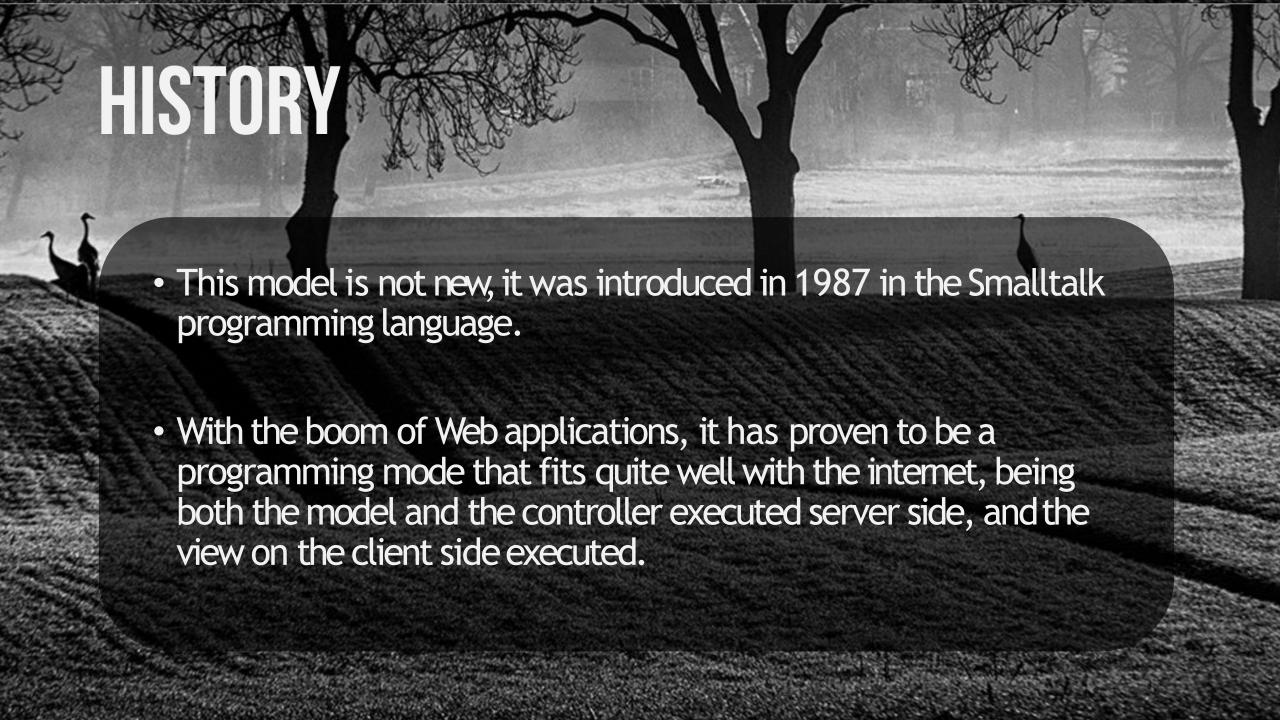
THE CONTROLLER

It is the link between the view and the model, is responsible for receiving and responding to events, typically user actions and invokes changes on the model and probably in the view.



BENEFITS

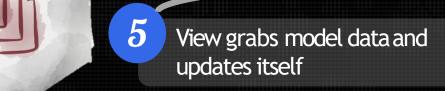
- Organization
- Rapid Application Development
- Reusing Code
- Parallel development
- It presents the same information in different ways.
- The views and application behavior should reflect the manipulations of the data immediately.
- It allows different user interface standards or port it toother environments where the application code should not be affected.



Control Flow

- 1. The user performs an action on theinterface.
- 2. The controller takes the input event.
- 3. The controller notifies the user action to the model, which may involve a change of state of the model.
- 4. It generates a new view. The view takes the data model.
- 5. The user interface waits for another user interaction, which starts a new cycle.

2 View alerts controller of a particular event



User interacts with a view



Controller updates the model



Model alerts view that it has changed

WHERE CAN I USE IT?

- It applies to all types of systems
- And technologies (ASP.NET, Java, Ruby, Python, Perl, Flex, SmallTalk, etc..)

.NET





Thank you

Arctech Info Private Limited