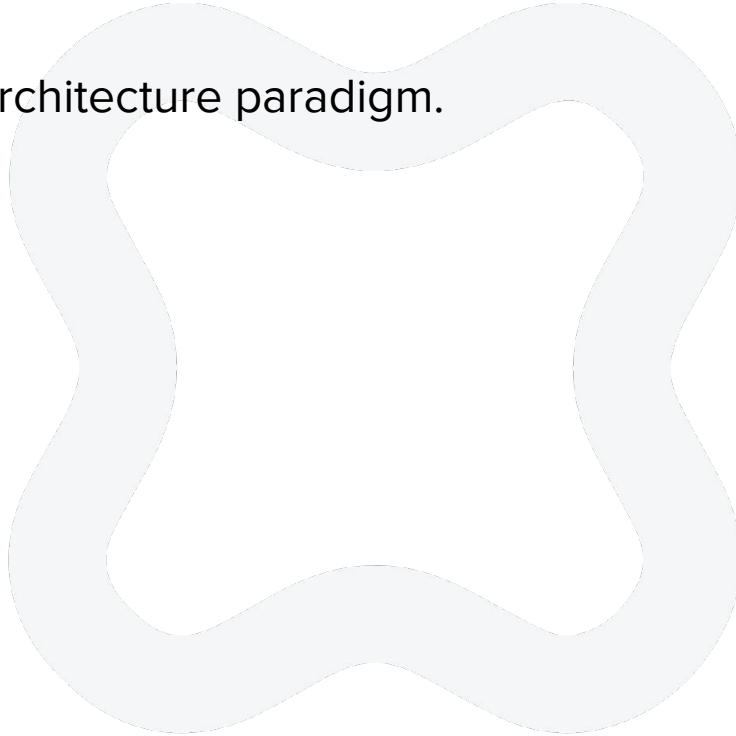# MVC & Rails Introduction

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MVC ?
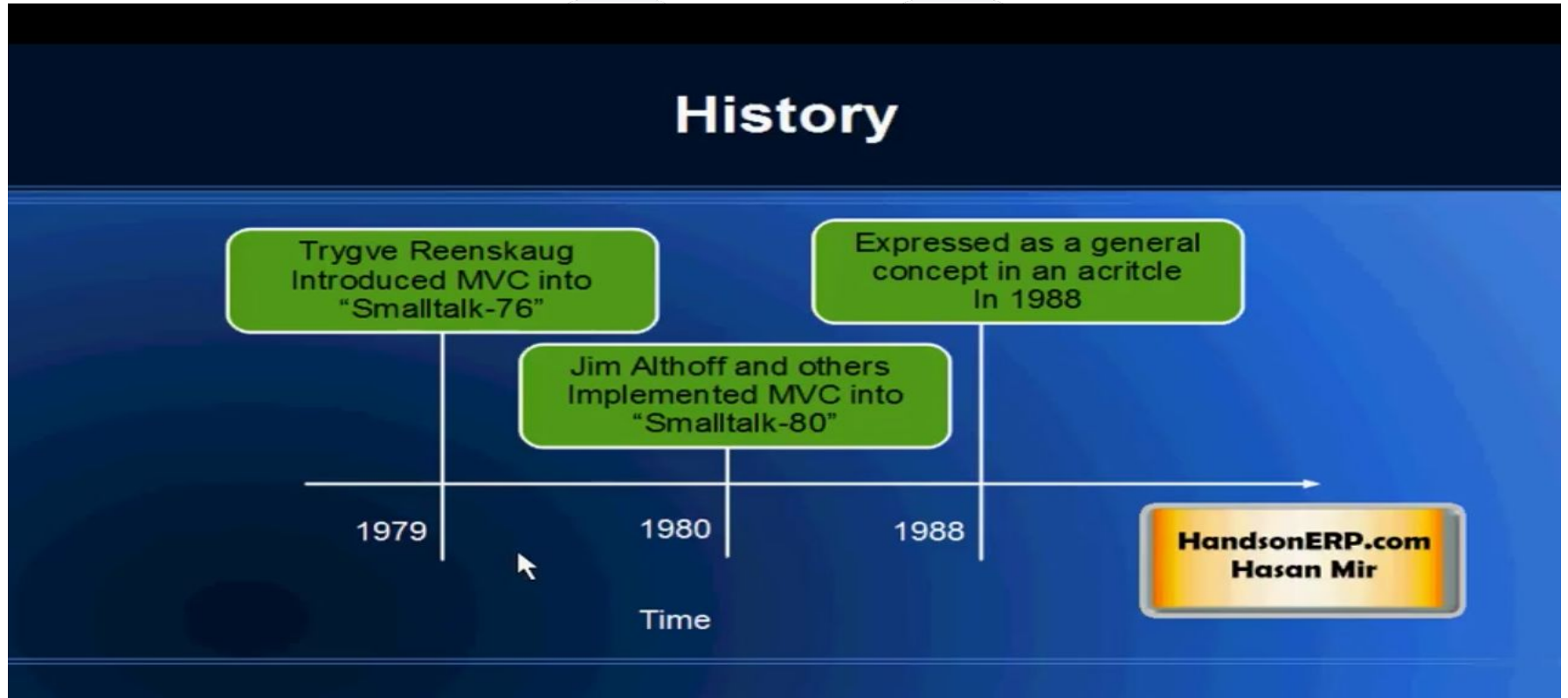
MVC ?

- It's an application architecture paradigm.

- MVC Stands for :

  > Model
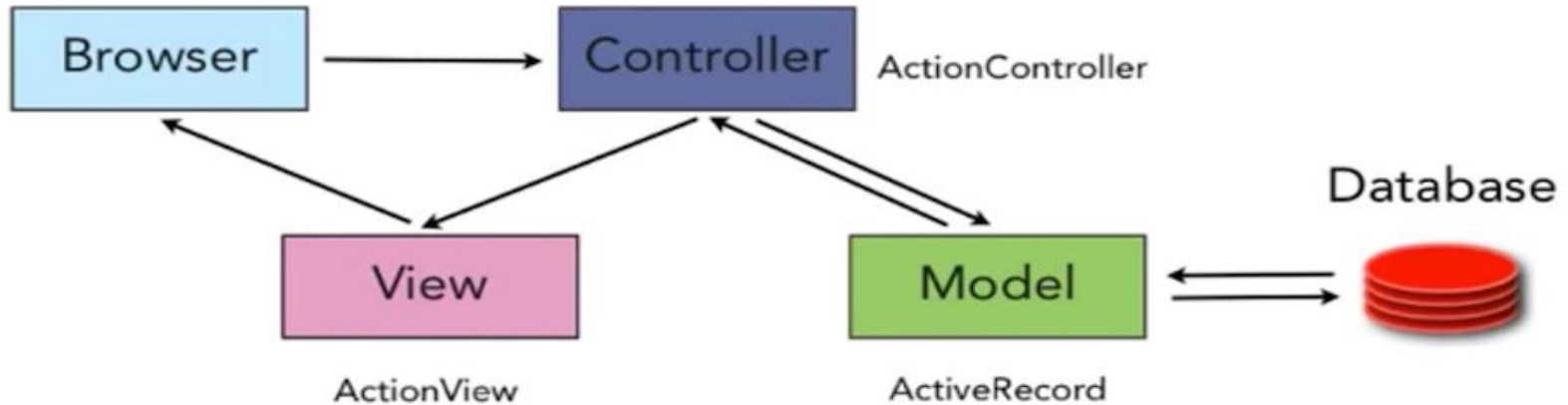
  > View

  > Controller

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Why MVC ?

- The objective of using MVC is :

  > To promote code usability.

  > To implement Separation of concern.

- To separate UI from business logic and application data.

- First used in Smalltalk-76 in the year 1979.

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History of MVC

How does MVC work ?

MVC WEB ARCHITECTURE

The "M"

- M is the "MODEL".

- Primary role : It is interacts with the data.

- Model is responsible for adding and retrieving items from the Database (DB).

- Also responsible for processing the data from or to the database.

- Model communicates only with controller.

The "V"

- V is the "View".

- Primary role : Displaying data to the end user.

- In MVC, "View" is only thing that an end user can see.

- This comprises mainly of HTML,CSS and JavaScript.
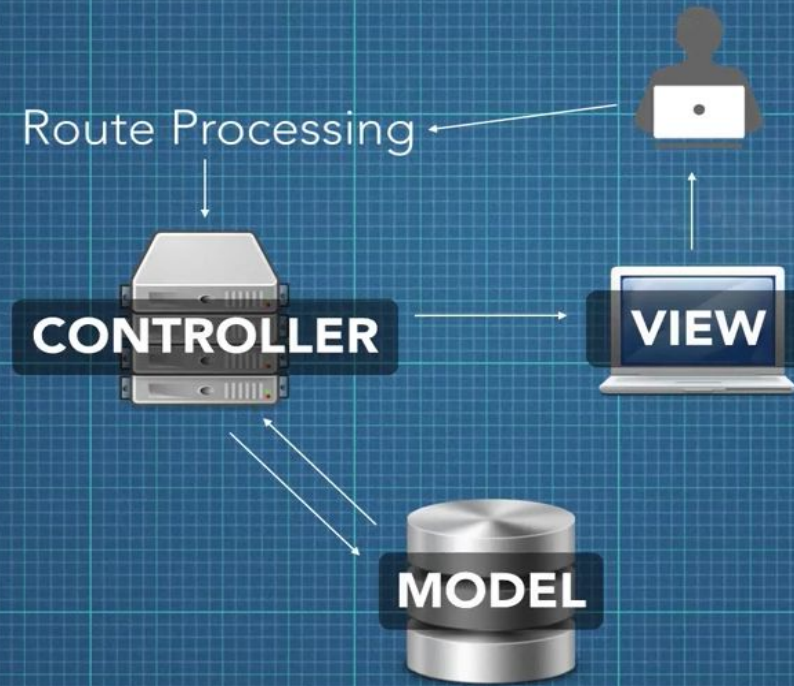
- It communicates only with the controller.

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The "C"

- C is the "Controller".

- Primary role : Interacts with user via requests.

- This processes GET / POST / PUT / DESTROY requests.

- All server side logic are written here.

- This is the middle man.

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Summary

Rails

Introduction to Rails

- Ruby on Rails (RoR) or just Rails is a server side web application framework.

- Written in Ruby by David Heinemeier Hansson.

- Rails is a model-view-controller (MVC) framework, providing default structures for a database, a web service and web pages.

- CoC : Convention over Configuration.

But, what is a framework ?

Framework

- A framework is a program , set of programs, and/or code library that writes most of our application for us.

- When we use the framework, our job is to write the parts of the application that make it to do the specific things that we want.

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Let's create a new rails application

rails new application_name

Rails Directory Structure

- App
- Bin
- Config
- Db
- Lib
- Log
- Public
- Test or Rspec
- Tmp
- Vendor
- .gitignore
- config.ru
- Gemfile & gemfile.lock
- Rakefile
- Readme.doc

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Run the rails server in your machine.

Command: rails server

Few instances..

- Employee

- Student

- Books

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THANK YOU

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