



Some Frameworks

Support for Responsive Design



Quote from the text

“The average page online now weighs a ridiculous 1MB. Of that 1MB, 200KB comes from JavaScript, up 52.6 percent over the last year. This is a very troubling trend.

A lot, though admittedly not all, of this JavaScript bloat can be attributed to the industry’s increasing reliance on frameworks and plugins.”

The image features a dark blue background with a decorative header at the top. The header consists of several overlapping, wavy bands in shades of teal, red, and dark blue. The word "AngularJS" is written in a light green, sans-serif font, positioned in the upper left quadrant of the page.

AngularJS



AngularJS

- AngularJS is an open-source JavaScript framework, maintained by Google, that assists with running single-page applications. Its goal is to augment web-based applications with model-view-controller (MVC) capability, in an effort to make both development and testing easier



AngularJS

- AngularJS is built around the belief that declarative programming should be used for building user interfaces and wiring software components, while imperative programming is excellent for expressing business logic.



AngularJS

- The framework adapts and extends traditional HTML to better serve dynamic content through two-way data-binding that allows for the automatic synchronization of models and views.
- As a result, AngularJS deemphasizes DOM manipulation and improves testability.



AngularJS

- Best source for documentation is the AngularJS website
 - www.angularjs.org
- There is a learning curve associated with this



BackboneJS



BackboneJS

- Backbone.js gives structure to web applications by providing **models** with key-value binding and custom events, **collections** with a rich API of enumerable functions, **views** with declarative event handling, and connects it all to your existing API over a RESTful JSON interface.



BackboneJS

- **Backbone.js** is a JavaScript library with a RESTful JSON interface and is based on the model–view–presenter (MVP) application design paradigm.
- Backbone is known for being lightweight, as its only dependency is on one JavaScript library
 - Underscore.js



BackboneJS

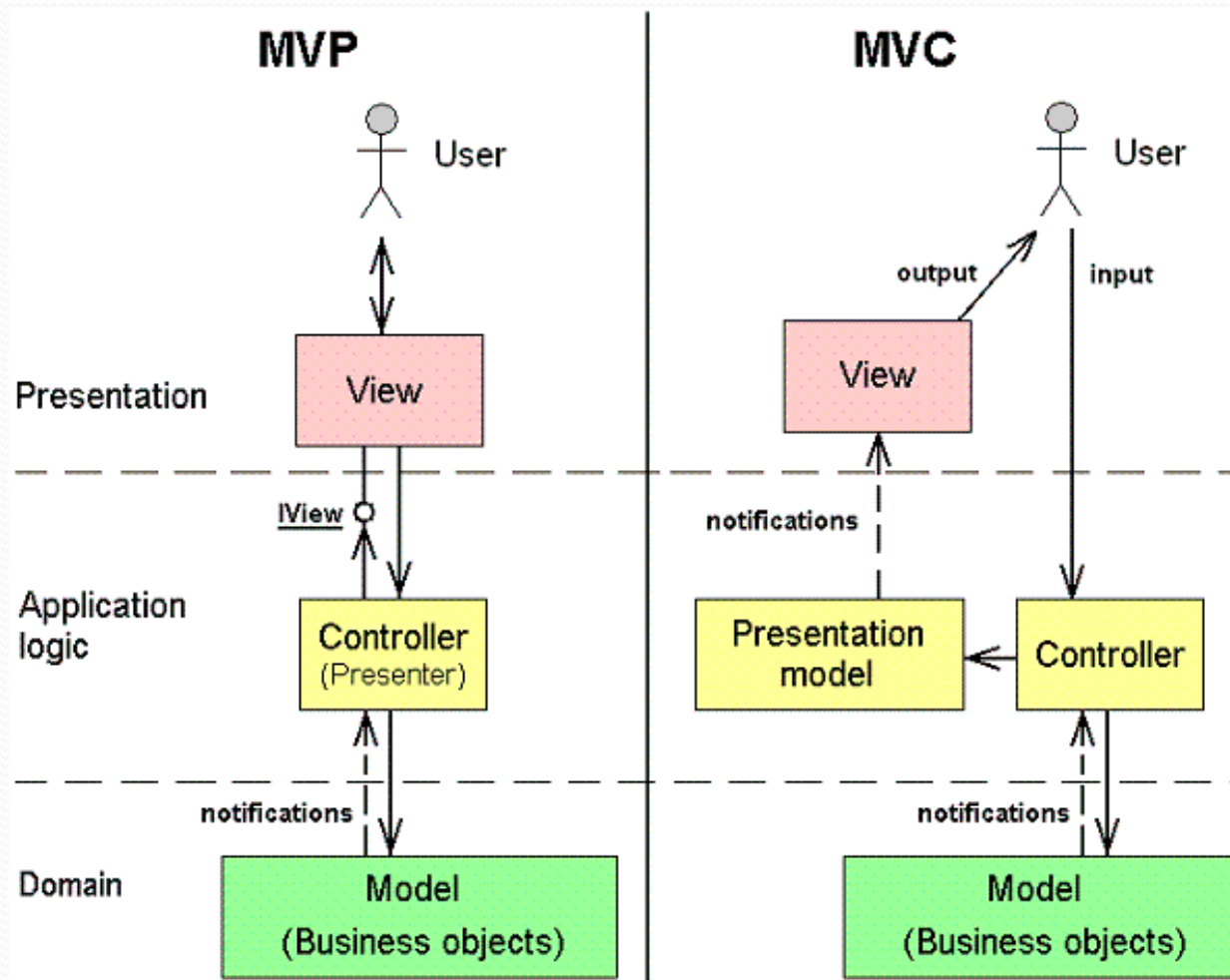
- It is designed for developing single-page web applications, and for keeping various parts of web applications (e.g. multiple clients and the server) synchronized



Aside: Model View Presenter

- **Model-view-presenter (MVP)** is a derivative of the model-view-controller (MVC) software pattern, also used mostly for building user interfaces.
- In MVP the presenter assumes the functionality of the "middle-man" (played by the controller in MVC. In MVP, all presentation logic is pushed to the presenter.
- Eventually, the model becomes strictly a domain model.

Aside: Model View Presenter





BackboneJS

- Best source for documentation is the BackboneJS website
 - <http://backbonejs.org/>
- Tutorials
 - [Backbone Tutorials](#)
 - You should plan on going through the “Beginners” section
- There is a learning curve associated with this



BackboneJS

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Foundation



Foundation

- **ZURB Foundation** is a free collection of tools for creating websites and web applications. It contains HTML and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions.
- Since version 2.0 it also supports responsive design. Foundation is now on version 5



Foundation

- Foundation comes standard with a 940 pixel wide, flexible grid layout.
- The toolkit is fully responsive to make use of different resolutions and types of devices: mobile phones, portrait and landscape format, tablets and PCs with a low and high resolution (widescreen).
- This adjusts the width of the columns automatically.



Foundation

- Foundation provides a set of stylesheets that provide basic style definitions for all key HTML components.
- These provide a browser and system-wide uniform, modern appearance for formatting text, tables and form elements



Foundation

- Best source for documentation is the Foundation website
 - <http://foundation.zurb.com/>
- There is a learning curve associated with this