MVC and MVP patterns with Play! Framework and Backbone.js

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TRENDS

- ▶ Enterprises's needs lead the market.
- ▶ Offering services: SOA wins.
- ▶ The web changes the status quo.
- ▶ SOA is not web compliant.
- ▶ Exposing services through the web requires extra effort.
- ▶ The game changes: new possibilities and challenges.

CHALLENGES

- ► Real time data has to be pushed.
- ► Huge amounts of data.
- ► Need for scalability and integration.
- ► Easy integration and accessibility.
- ► Interoperability.

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ADDRESSING THE CHALLENGES

- ► Embrace the internet.
  - ► HTTP Protocol
  - ► HTML5
  - ► XML/JSON
  - ► Javascript
  - ► CSS
- ► Paradigm shift: client-side.
- ► Simplicity.
- ► A framework to rule them all.

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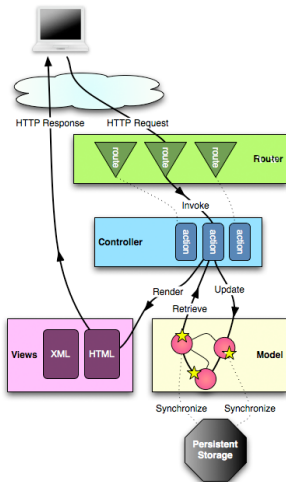○

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WHAT IS PLAY! FRAMEWORK?

- ▶ A web framework focused on:
    - ▶ Simplicity.
    - ▶ Productivity.
    - ▶ Scalability.
    - ▶ Designed for the modern web.
        - ▶ Concentrate on server-side.
        - ▶ Delegate AMAP to the client.
    - ▶ Embrace internet standards.
    - ▶ Java and Scala.
    - ▶ RESTful architecture web applications.
    - ▶ Model-View-Controller.

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RESTFUL ARCHITECTURE

- ▶ Implemented using HTTP and REST principles.
- ▶ Representational state transfer (REST) principles:
  - ▶ Uniform interface.
  - ▶ Stateless.
  - ▶ Caching.
  - ▶ Layers.
  - ▶ Code on demand.
- ▶ Goals:
  - ▶ Performance.
  - ▶ Scalability.
  - ▶ Portability.
  - ▶ Reliability.
  - ▶ SIMPLICITY.

THE MVC APPLICATION MODEL

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