WishRoll

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What's WishRoll?

* Users create wishlists
* Wishlists stored on cloud
* Social networking aspect
  * Search and add friends
  * See lists of friends
* Rolls
* Public/Private/Friends Only Lists

How can we use WishRoll?

* Keep track of the things that we want to buy
* Make decision making easier!
  * Gift-buying

Demo

Technology Used (Front End)

1. AngularJS
2. JavaScript/DOM
3. HTML/CSS/CGI
4. AJAX

Technology Used (Back End)

1. ASP.NET MVC 4
2. SQL Server 2012
3. ADO.NET Entity Framework
4. Razor C#
5. JSON
6. Microsoft Azure

Special Technologies

* WPF
  * For validating and resizing uploaded pictures
* F#
  * Special functional constructs to eliminate redundant code

What We Learned - Positive

1. Angular.js is awesome
   * Dynamically change view based on models effortlessly
2. Visual Studio is a crazy good
   * “I’d switch to Windows for this IDE” – Jerry Wei
3. ASP.NET facilitates learning design patterns
   * MVC is embedded in ASP.NET

What We Learned - Negative

1. Cloud, namely Azure, is painful
   * No, seriously
2. ASP.NET and AngularJS both possess a learning curve

What Is ASP.NET

* A server side web application framework
  * Built upon .NET Framework

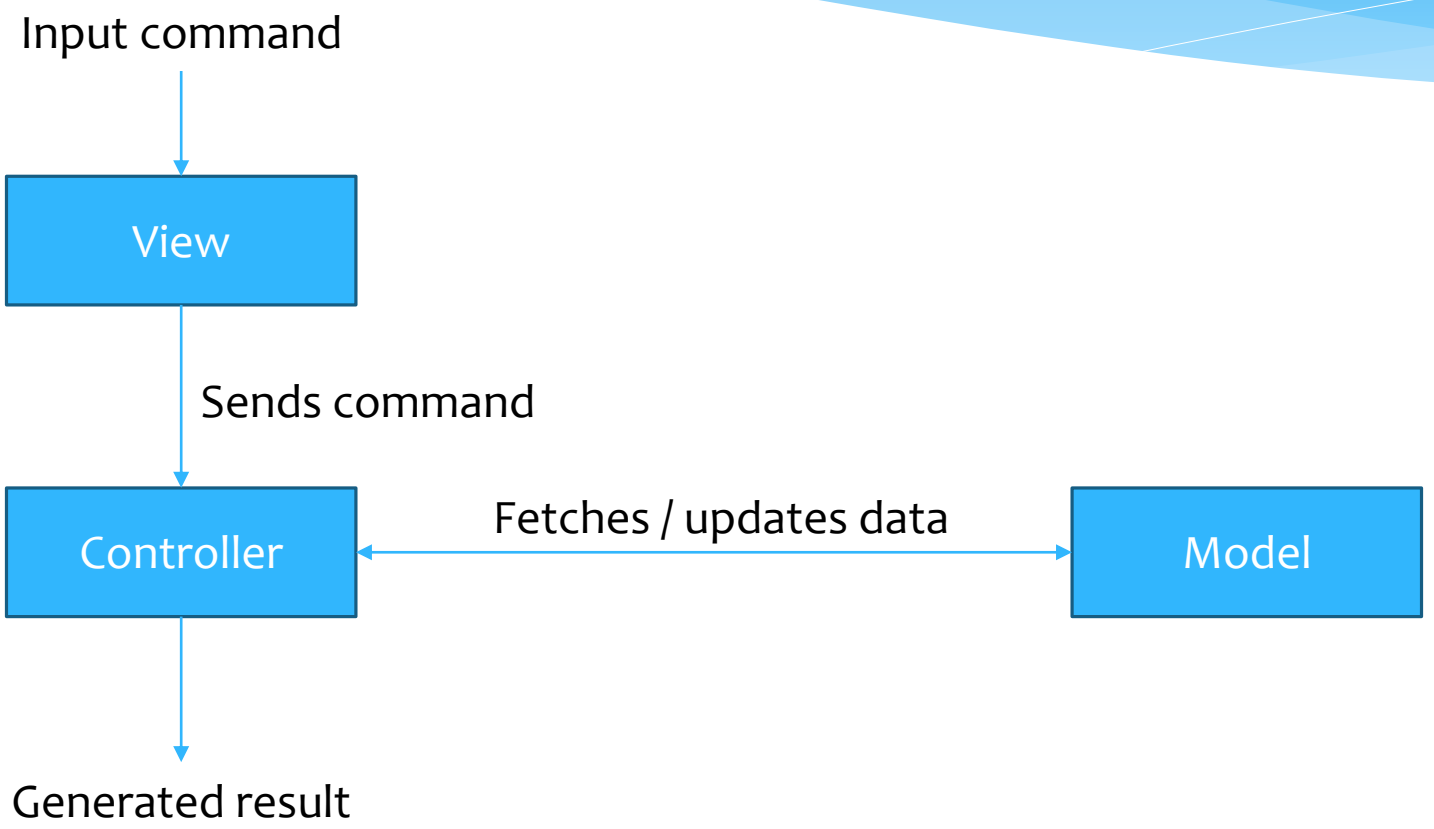
What Exactly Is MVC

* MVC means Model-View-Controller
* Model
  * The data.
  * SQL Server data tables along with corresponding C#-object representation.
* View
  * What users see.
  * Webpages that are generated and displayed on browsers.
* Controller
  * Receives a command from view, takes appropriate actions, looks into and updates the model, and returns a new view or just an action result.

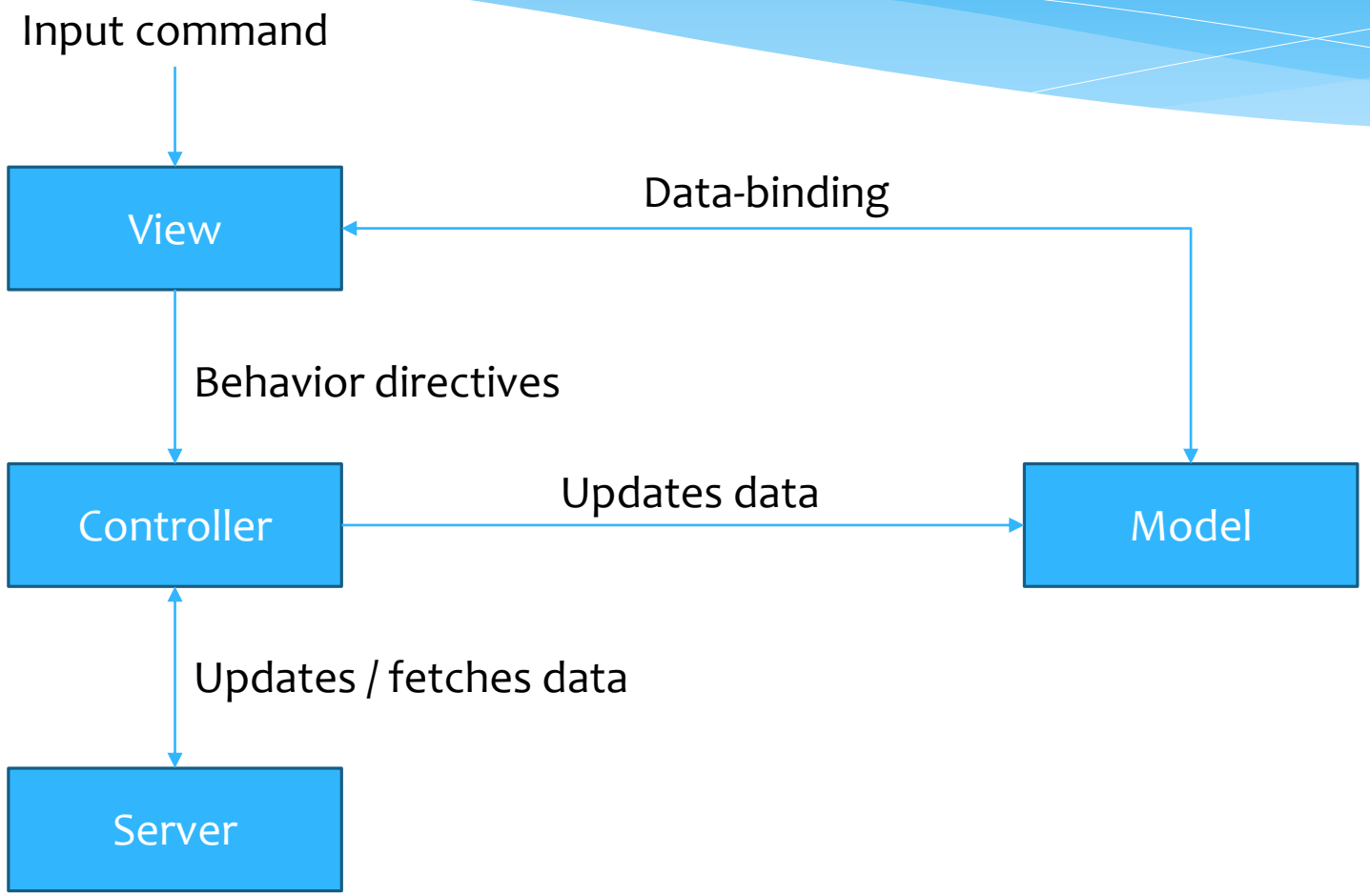
When “About” is clicked

* User clicks on “About”
  * “About” is an anchor with href=“//localhost:10946/Home/About”
* Server receives URL “/Home/About”
  * “/Home/About” maps to C# method HomeController.About()
  * The code is located at Controllers/HomeController.cs
* The About() method simply returns its corresponding view
  * The view is located at Views/Home/About.cshtml
* ASP.NET translates .cshtml file to pure .html and sends the resulting webpage
* User gets new webpage

ASP.NET MVC Architecture



AngularJS Architecture



Questions?