The Journey from MVC to Angular

WHY YOU NEED MORE CLIENT-SIDE CODE

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Goals

Gradually move from server-side to client-side code

Take an existing MVC application

Move it step-by-step to Angular

Eliminate a lot of code in the process

Speed up your application

Why a step-by-step approach?

- Application too large to move all at once
- Want to just speed up one or two pages
- Move your server-side code slowly
- Keep some MVC functionality
  - Use Angular where it is appropriate

I assume you...

- Are an MVC developer
- Want to speed up your web application
  - Use more Web API calls
  - Gradually move to AngularJS
- Are familiar with JavaScript and jQuery
- Are familiar with HTML and CSS
- Are familiar with Web API

Related Pluralsight Courses

Angular Fundamentals

Angular Front to Back with Web API

Implementing an API in ASP.NET Web API

Basics of Programming with JavaScript

Consolidating MVC Views using Single Page Techniques

Moving to Angular

Why Move to Angular

Speed up your web applications

Avoid post-backs

Reduce total bytes transferred

Reduce server-side code

Less client-side code than jQuery

Step-By-Step Conversion

HTML Table

Drop-Downs

Data Binding
Client-Side

Add/Edit/Delete

Validation

Skills You Need for Angular

JavaScript

Web API

Closures

Templating

Data Binding

The Modules in This Course

Modules

Six modules in this course

Module 1: Why you need more client-side code

- An MVC CRUD page
- Overview of MVC Page

Module 2: Convert MVC tables to Angular templates using data binding

- Web API call
- Build HTML table using templates
- Learn data binding

Modules

Module 3: Convert MVC drop down lists and perform searching using Angular

- Build HTML select lists
- Search for data via Web API
- Avoid post-backs

Module 4: Handle UI state and exceptions with Angular data binding

- Show/hide HTML elements
- Keep track of page “state”
- Handle exceptions

Modules

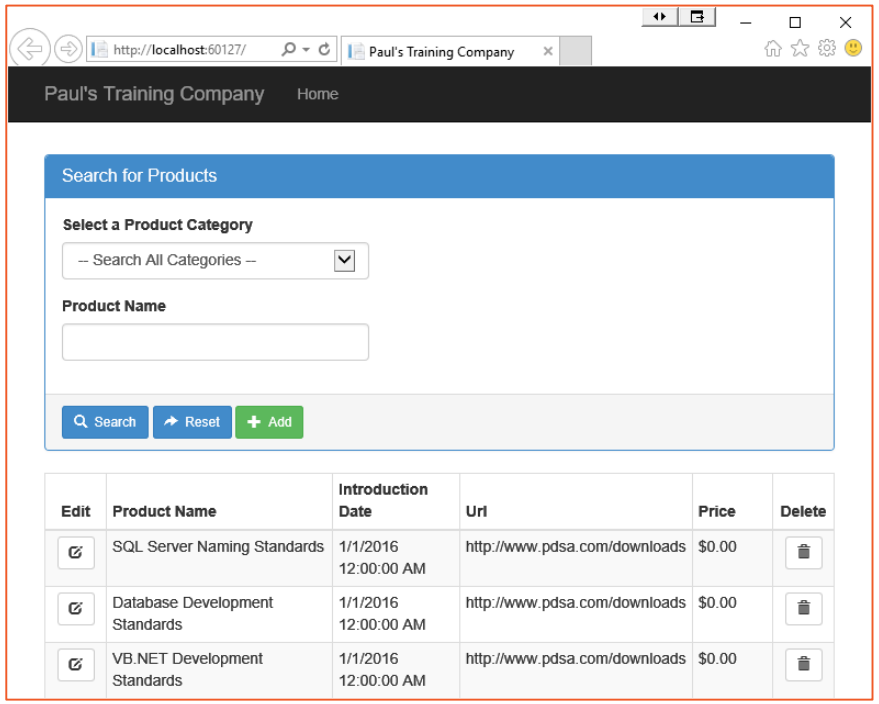
Module 5: Add, edit and delete with Angular

- Use Angular data-binding for data modification

Module 6: Don’t forget the validation of data

- Use Angular validation
- Validate server-side

The Existing Application



Paul's Training Company

Single page to maintain product info

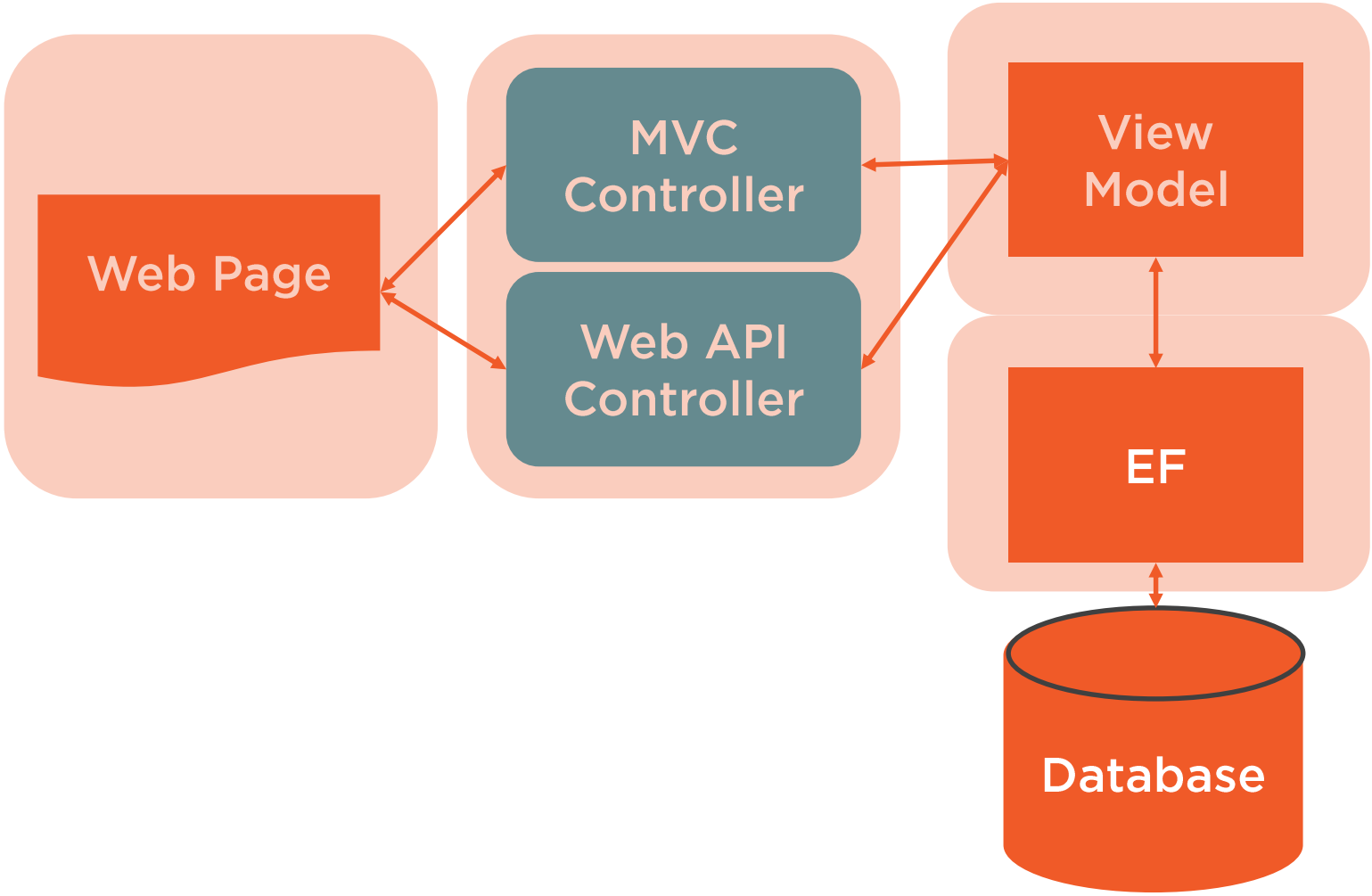
List and search for products

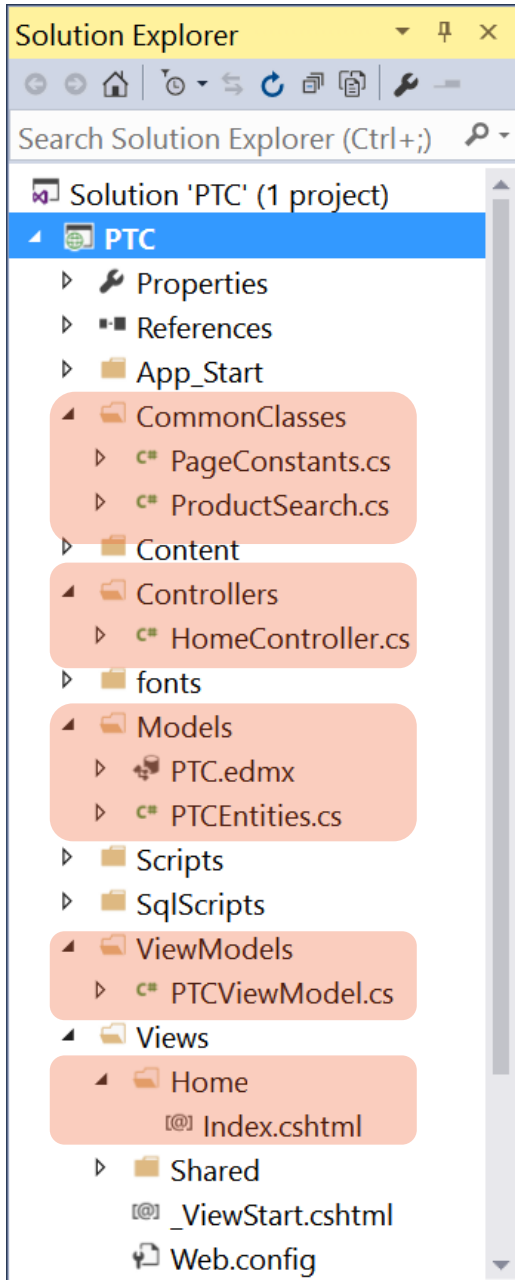
Add, edit and delete products

Validate product data

Download from
http://www.pdsa.com/Pluralsight

Application Structure





Common Classes

- PageConstants – Page mode constants
- ProductSearch – Search filters

Controllers

- HomeController – MVC Controller

Models

- PTC.edmx – EF
- PTCEntities – EF Validation

ViewModels

- PTCViewModel – View Model

Views

- Index.cshtml – CRUD page

Demo

Let’s run the MVC application

Summary

Why move to Angular

Modules in this course

Architecture of the demo application

Coming up in the next module...

- Build Web API calls
- Build HTML table using templates
- Learn data binding