

Angular Security Using JSON Web Tokens

REVIEW AND INSTALL THE SAMPLE APPLICATION



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Course Goals



Create two security scenarios

- Apps with small security requirements
- Enterprise applications

Authenticate & authorize users

Secure UI elements

Protect navigation with route guards

Secure Web API

- JSON Web Tokens

Claims-based authorization





I assume you...

- Are an Angular developer
- Are familiar with
 - Angular
 - TypeScript
 - Web API

Related Pluralsight Courses

Angular: Getting Started

Angular: Forms

Play by Play: Angular RxJS

Angular: Fundamentals



The Modules in This Course



Modules



Review and install the sample application

- Starting application to secure
- Uses Web API for data

Authenticating a user

- Create client-side user authentication system
- Return user authorization object

Modules



Secure UI elements and guard routes

- Use directives to secure UI elements
- Add route guards to secure navigation

Create Web API to authenticate and return user authorization object

- User authentication via Web API
- Return user authorization object

Modules



Use JSON Web Tokens to secure Web API methods

- Learn to use JWT
- What are bearer tokens
- How to generate a token using JWT

Working with bearer tokens in angular

- How to pass tokens back and forth
- Create HTTP interceptor



Modules



Using claims-based authorization

- Enterprise security
- Create array of user claims from a table
- Create structural directive for securing UI

Security Overview



Security Goals

1

Don't let everyone in to your application

2

Keep users confined to certain areas

3

Create security authorization object

4

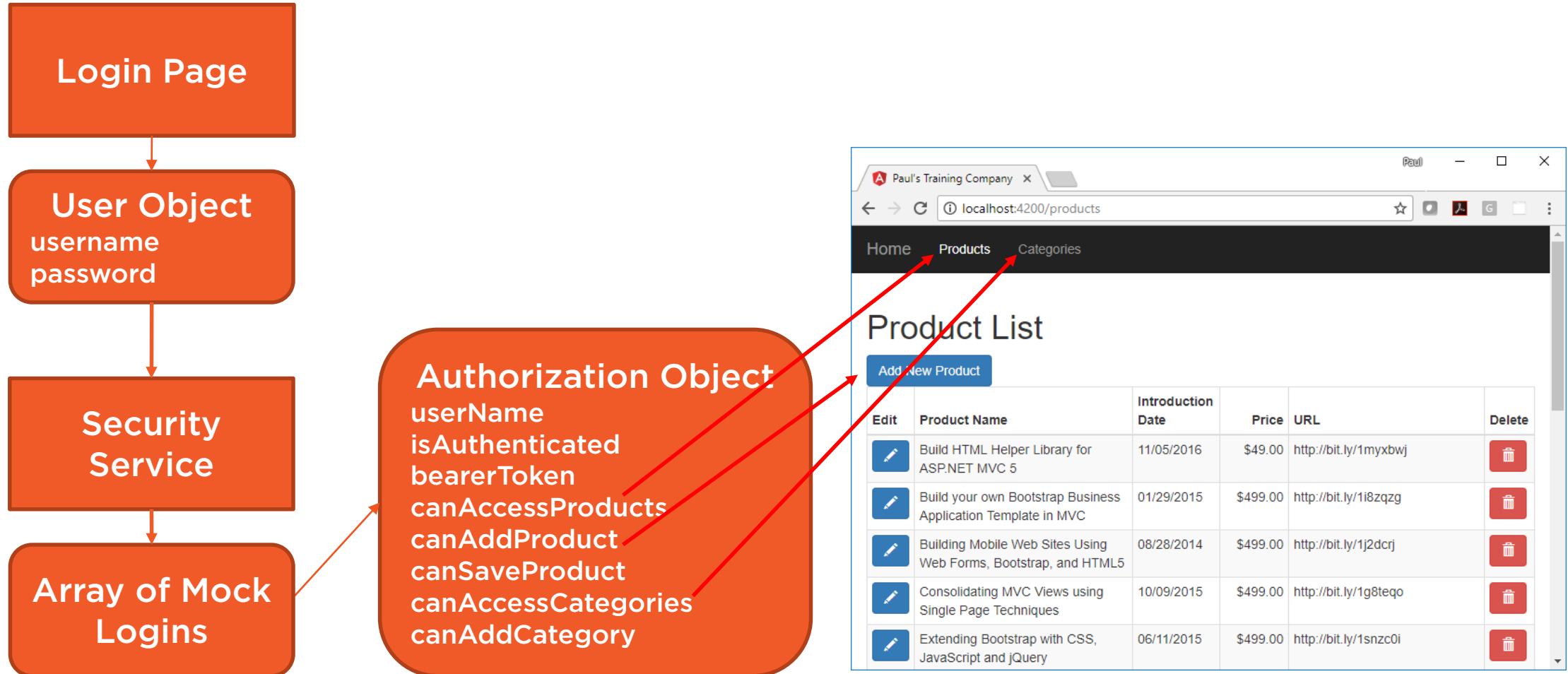
Protect routes using route guards

5

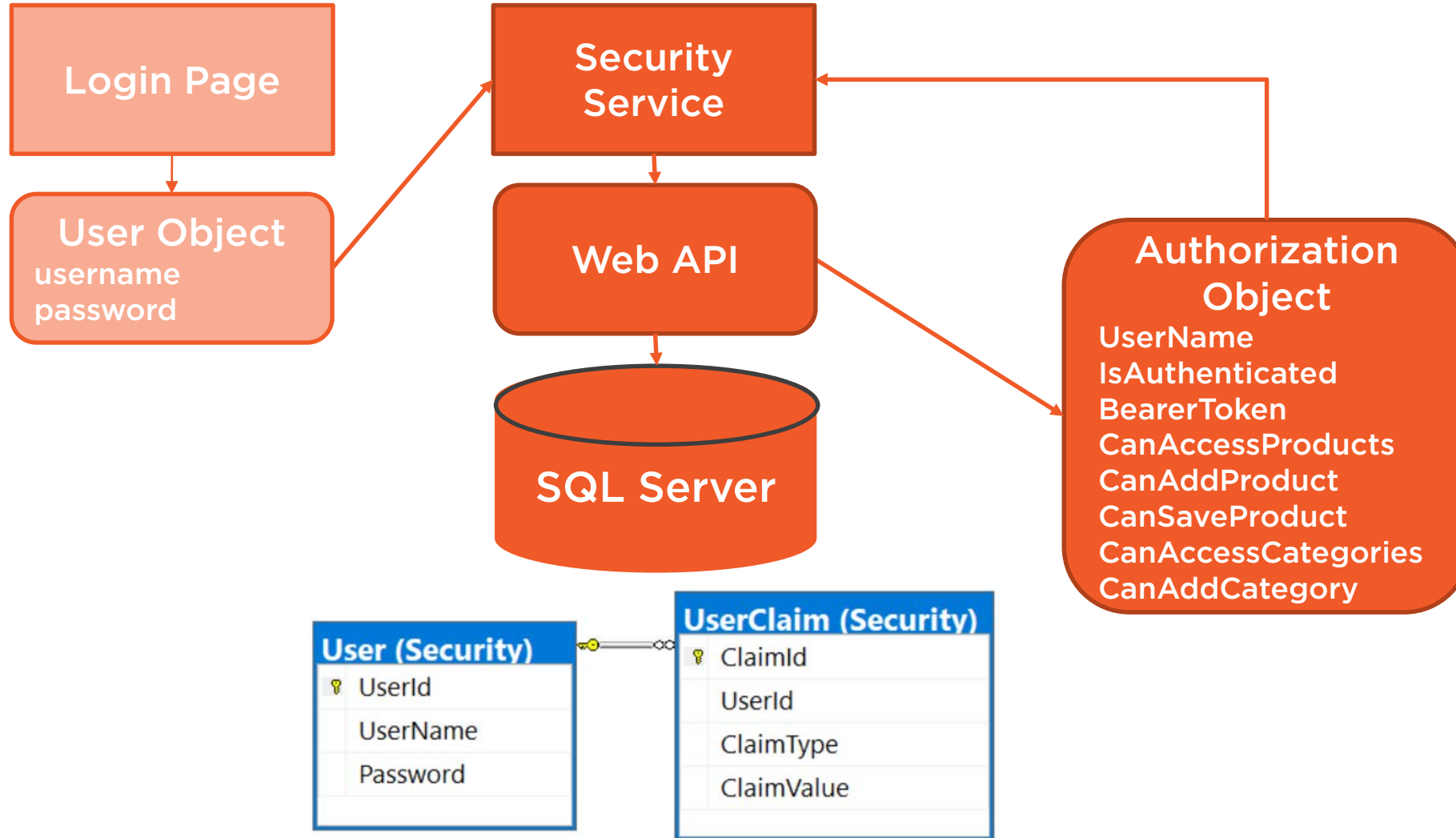
Secure Web API methods



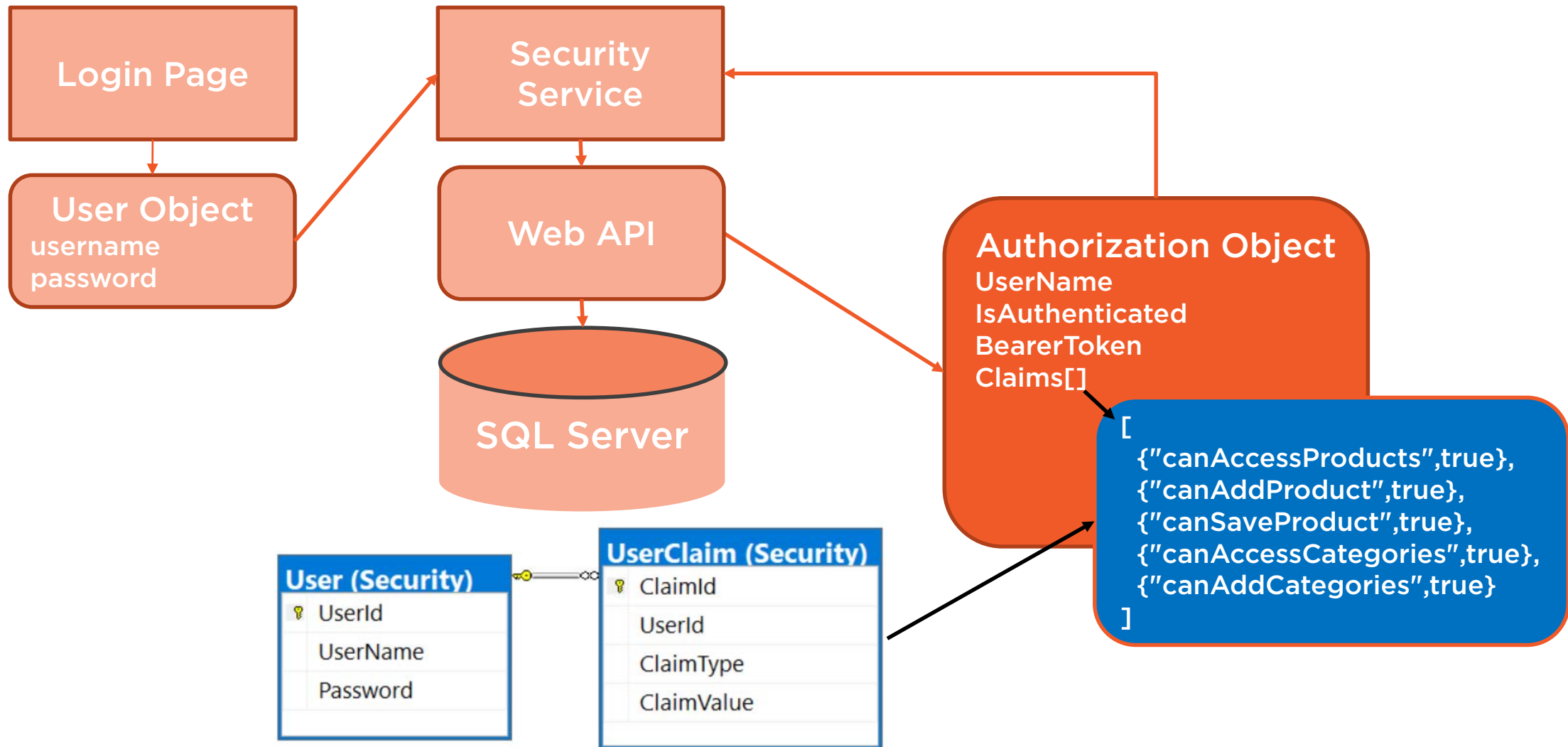
Security Architecture Using Mocks



Security Architecture Using Web API



Security Architecture Using Claims



Machine Setup



Required Tools

Node / Node
Package Manager

Angular / Angular
CLI

TypeScript

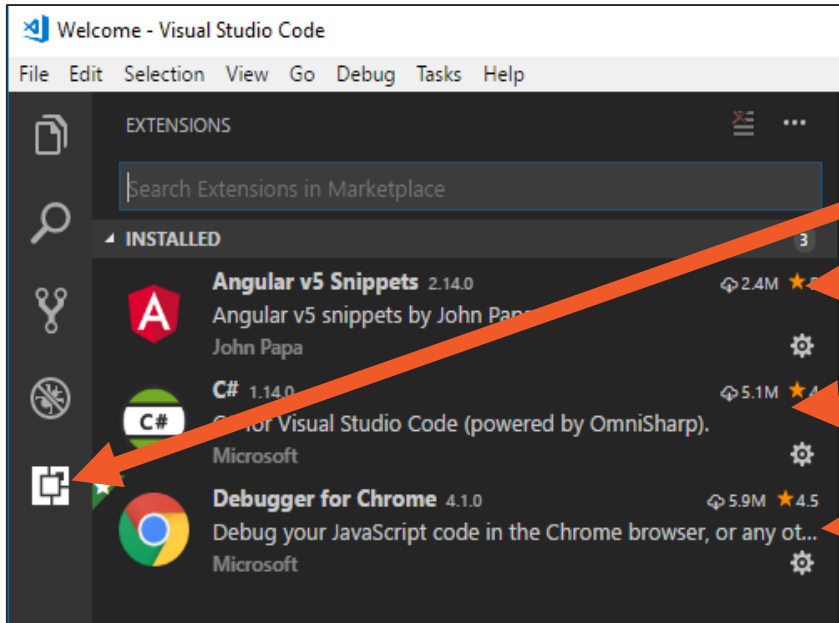
ASP.NET Core

Visual Studio
Code and
Extensions

SQL Server / SQL
Server Express



Code Extensions



Select Extensions on activity bar

Add Angular v5 Snippets

Add C#

Add Debugger for Chrome



Download Sample Project

[www.pdsa.com](http://www.pdsa.com/pluralsight)
[/pluralsight](http://www.pdsa.com/pluralsight)

**Click on the Download
Starting Sample link**

Unzip files

**Follow instructions in the
README file**



Demo



Review machine setup procedures

Setup the sample application



Summary



Security architecture overview

Setup machine and sample application

Tour of the application to secure





Coming up in the next module...

Create client-side user authentication system

Return user authorization object

