Building End-to-End Multi-Client Service Oriented Applications

Module 12

The Car Rental Web Site

Part 3 – HTML5 History API & Accessing WCF

pluralsight
hardcore developer training

Highlights

- **HTML 5 Push-State**

    □ Tracking and pushing back-button history

- **Accessing Services from the site**

    □ The proxy-disposability pattern in the controllers

- **User-data authorization**

    □ Similar to that on the WCF services (and for the same reasons)

- **Unit Testing**

HTML5 Push-State

- **Manually pushing history onto the browser**
- **Makes the back-button think it has a place to go**
- **Without it, a back-press will navigate to the point before the server request took place, for example:**
  - Currently on Home Page
  - Click on "Register"
  - Fill out Step 1, press Next
  - Fill out Step 2, press Next (we got here through SPA)
  - Press Back-button
  - Back at Home Page (we really would like to go back to step 1)
- **Needed as the final polish in a SPA**
- **My pattern is designed to work with the way I design SPAs**
  - There are frameworks to assist with this (Sammy.JS)

The Rest of the Site

- **Other sections of this site**
  - My Account
  - Reserve a Car – *the one I'm going to write*
  - Current Reservations
- **Will access WCF Services (using the proxy classes)**
- **Proxies will be injected into controllers**
  - Will need pattern for disposability
- **Each site "section" will be exposed SPA-style**
  - Step 1 – Choose reservation dates
  - Step 2 – Choose an available car
  - Step 3 – Reservation confirmation

Summary

- **Many technologies used here**
    - MVC, Knockout, Web API, Bootstrap, JQuery
- **Site is SPA/Non-SPA hybrid**
- **Uses SimpleMembershipProvider for authentication**
- **Base classes for both controller types provide common functionality**
- **Formal pattern offers proxy disposing**
- **HTML5 Push-State gives final polish for back-button support**

End of Module