

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

Module 10

The Car Rental Web Site

*Part 1 – Infrastructure, Knockout, & Security*



# Highlights

- **Layout and Infrastructure using ASP.NET MVC**
  - Layout view
  - MEF bootstrapping
  - Dependency Resolver
  - Security Adapter
- **Infrastructure for Knockout-JS**
  - ViewModelHelper class
  - Layout structure
  - 3<sup>rd</sup> party components
  - SPA patterns
- **Adding Security using Forms-Authentication**

# Infrastructure

- **Controllers all served by MEF**
  - MVC & API
  - Use custom dependency resolver to resolve controller classes
- **Custom base classes for all controllers**
  - API controllers will also use custom action filter
  - Pattern set in place for service-proxy “closing”
- **All views use master Layout view**
- **3<sup>rd</sup> party components**
  - Attribute Routing used instead of conventional routine tables
    - Provides clearer connection between route and action-code
    - Self-documenting
  - Bootstrap used for CSS styling
  - Moment.JS – date parsing JS library
    - <http://momentjs.com/>

# Knockout JS

- **Knockout**
  - JS-based MVVM framework
  - Developed by Steve Sanderson – now with Microsoft
- **All KO-aware views will follow specific layout-pattern**
- **3<sup>rd</sup> party components**
  - Loading-When binding handler
    - Developed by Steve Greatrex
    - <http://blog.greatrexpectations.com/>
  - Custom date-picker binding handler
    - Uses JQuery-UI
  - Knockout-Validation
    - Developed by Eric Barnard, Steve Greatrex, and others
    - <https://github.com/Knockout-Contrib/Knockout-Validation>