Nancy Testing

Richard Cirerol

@richardcirerol

Testing a Nancy Project

- **Nancy.Testing**
  - Browser
  - BrowserResult
  - ConfigurableBootstrapper

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Testing a Nancy Project

- **The Browser class**

  Emulates a browser without using network

  - Create request
    - Method
    - Path
    - Context
  - Send the request to the referenced Nancy application
  - Receive a response from the Nancy application
  - Expose the response as BrowserResponse

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Testing a Nancy Project

- **The BrowserResponse class**
  - Access to the:
    - NancyContext
    - Body
    - Headers
    - StatusCode
    - Cookies
  - Ability to make another request

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Testing a Nancy Project

- **Using the ConfigurableBootstrapper**
  - Special derivative of the NancyBootstrapper
  - Allows alteration of the configuration at runtime
    - The Before, After, and Error request pipelines
    - Container
  - Can add fake implementations of dependent classes

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Testing a Nancy Project

- **Tips for successful testing**
    - When testing applications with views
        - Set the root path using the ConfigurableBootstrapper
        - The root path is where the application starts looking for views
        - By default, the root path is the root of the current project
    - If your application is an API-only project (no views)
        - Include the required modules in the ConfigurableBootstrapper
        - *OR*
        - Call Assembly.Load("*yourassemblyname*") at your test suite entry point

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Demo: Testing our application

Requirements:

- **Add and configure a test project**

- **Add a test for our courses list**
    - Use the Browser to connect to our routes
    - Use the BrowserResponse object in our assertions
    - Use the ConfigurableBootstrapper to setup the test

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Summary

- **Using classes specifically designed for testing Nancy applications**
  - Browser
  - BrowserResponse
  - ConfigurableBootstrapper

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