Completing the Picture

In his must-read book, Working Effectively with Legacy Code, Michael Feathers states:

Code without tests is bad code. It doesn't matter how well written it is; it doesn't matter how pretty or object-oriented or well-encapsulated it is. With tests, we can change the behavior of our code quickly and verifiably. Without them, we really don't know if our code is getting better or worse.

Those are strong words. However, we completely agree with him. What he calls the "Cover [with tests] and Modify" approach is demonstratably more efficient than the "Edit and Pray [because there are no automated tests]" approach. And although most of us know this, either through our formal education or through the "school of hard knocks", oftentimes we find ourselves writing what Mr. Feathers calls "bad code". The reasons vary, but typically it's because writing testable code can be difficult, especially when developing on top of certain frameworks.

The good news, in this regard, is that ASP.NET Web API was developed with testability in mind. In this chapter we will demonstrate how to achieve high levels of code coverage relatively easily.

Finally, based on feedback from the previous edition of the book, we will demonstrate how to consume the task-management service using a simple ASP.NET MVC Web application.

# Testing the API

## Unit Testing

## Integration Testing

# Going Live!

TODO - Jamie's section on the UI, CORS, CSRF…

# Summary