Company Introduction

Information Management Consultants (IMC) is a large company founded in 1981 with headquarters in Reston, Virginia. IMC has proudly served the Federal government and private sector for more than 34 years, applying information technology to develop, automate, and improve mission critical business processes, especially enterprise content management systems, as well as back office support systems. IMC has developed large and small projects using waterfall, agile, or hybrid processes as required by our clients. We have matured our processes and delivery options as the industry has evolved. We have operated in client and IMC hosted environments, and now also operate in the public cloud as an Amazon Web Services (AWS) consulting partner.

Project Management

The IMC Project Management Methodology is based on the Project Management Institute’s Guide to the Project Management Body of Knowledge, supplemented with specific methodologies defined within our global framework. We employ our methodology whether we are performing software development, network deployment and maintenance, or commercial off the shelf implementations. IMC project management practices are also strongly influenced by the requirements of the Capability Maturity Model Integrated and the standards established by the International Organization for Standardization.

Define User Stories

The website shows a page with a menu of options for consumers. Choosing the option to search for the top 5 most frequent events for a drug provides the user with an auto-complete box in which the user can enter the drug name. On entering the drug name a graph is displayed that shows the top 5 frequent events for that drug. In addition to this, the user has two filters : seriousness and outcome.

Technology Infrastructure & Architecture (Atul)

IMC is using an Amazon Web Services (AWS) EC2 instance as base infrastructure to deploy the prototype. Infrastructure level security controls including FedRAMP and FISMA are satisfied by AWS and IMC ensures application and data level security. For source code control, IMC team is using github as the repository to deliver the code and associated artifacts to GSA. To follow IMC’s agile practices, our team uses JIRA to log product backlog, work performed, issues found and as overall collaboration tool among the team members. IMC is using Zephyr as test management platform and Selenium as test automation tool. The application is built on MVC architecture with JSP as front end and Java code for business logic.

User Interface Design

Development Methodology (Agile Methodology)

IMC follows proven DevOps industry best practices to remove the friction between developing and releasing code. Our goal is to deploy a fully tested and fully functional version of each application at a moment’s notice, with the ability to roll quickly back to a previous version.

Our automated delivery process begins with continuous integration. We require developers to integrate code into a shared repository several times a day and enforce the frequency of code check-in. The continuous integration server verifies each check-in through an automated build, allowing teams to detect problems early. Following the Agile practice of continuous testing, we also run a suite of automated regression and unit tests at every build. This allows us to find regression or integration issues early before they become technical debt or buried under hundreds of other code changes. Continuous integration and testing not only improve the quality of the system, but also provide the added benefit of informing the Product Owner if a particular version is deployable.

Testing

Delivery

IMC’s prototype is being delivered as a web portal <http://www.rxeffex.com> and associated artifacts located in a git repository at <https://github.com/amathur09/imc18f>