



2017

Martin Agency Freelancer Onboarding

Brian Simoni

Virginia Commonwealth University

Christopher Calhoun

Virginia Commonwealth University

Perry Stephenson

Virginia Commonwealth University

Follow this and additional works at: <https://scholarscompass.vcu.edu/capstone>

 Part of the [Computer Engineering Commons](#)

© The Author(s)

Downloaded from

<https://scholarscompass.vcu.edu/capstone/206>

This Poster is brought to you for free and open access by the College of Engineering at VCU Scholars Compass. It has been accepted for inclusion in Capstone Design Expo Posters by an authorized administrator of VCU Scholars Compass. For more information, please contact libcompass@vcu.edu.



Martin Agency Freelancer Onboarding

CS320 | Team members: Brian Simoni, Christopher Calhoun, Perry Stephenson | Faculty adviser: Robert Dahlberg
Sponsor: The Martin Agency | Sponsor adviser: Robert Wolstenholme

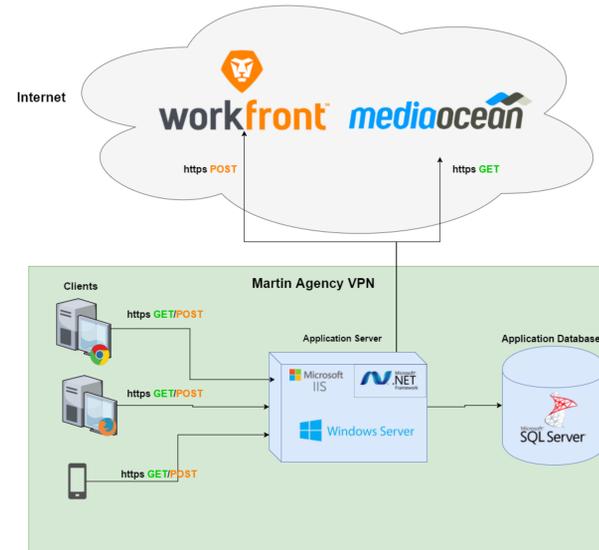
The Problem

Onboarding new employees is a necessary but often lengthy process at any company, but it can be especially difficult at The Martin Agency since so much of their staff are Freelancers or short term employees.

- Requests for new Freelancers started with a paper form
- Data had to be saved electronically anyways
- Very little was automated
- Workers would sometimes finish their job before the onboarding process was complete
- New workers need to be added to multiple systems: Payroll, Active Directory etc...

The Technology

The Martin Agency is a Microsoft shop, so to make it as easy as possible to integrate into their current environment, we used much of the same technology.



Backend Technologies

- Windows Server
- IIS
- .NET 4.5
- MVC
- SQL Server



Front End Technologies

- jQuery Validator
- Twitter's Bootstrap
- Google's Material Design



The Solution

- A user friendly web form accessible from within inside The Martin Agency VPN.
- Familiar look to the paper form
- Programmatic form validation based on business logic.
- Populated dynamically based on business changes and Media Ocean queries.

- Form entries are stored in an SQL database for future auditing purposes
- Automatically pass data to WorkFront and start the new employee approval process.
- Easily transferrable and maintainable by The Martin Agency's own developers.

Future Enhancements

The application is production ready, but additional features could save even more time for both developers, human resources, and hiring managers.

Features

- Poll WorkFront for requests that have made it to an approved state.
- Automatically create entries for new employees in Active Directory
- Graphical interface to view, update, and delete past requests.



Jenkins



Continuous Integration

- DevOps tools like Chef or Jenkins for faster provisioning and deployment
- More robust automated testing

