

# Financial Services Portal Suite

## Test Automation

**TECHNOLOGIES:** Specflow plus, RestSharp, Selenium and Visual Studio

**SERVICES PROVIDED:**, Quality Assurance, Test Automation, Manual Testing

**TEAM:**  
Test Automation Engineer  
Manual Tester  
Project Manager/ Business Analyst

**Duration:** 2+ year

### TESTIMONIAL

"Very impressive. We now have 614 Automation tests that run nightly. These are a combination of web tests that just confirm that we can log into all our sites from IE & Chrome, and then regression test the functionality through the API."



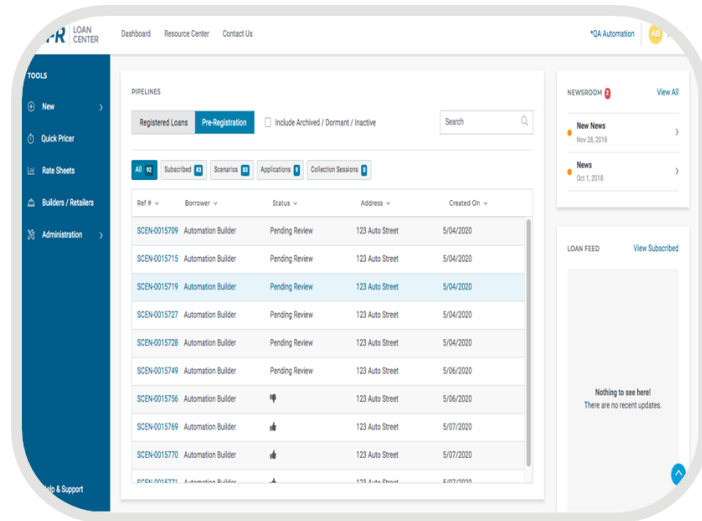
**Lee Rodgers**  
VP, Applications Development  
American Financial Resources, Inc.

**Customer:** American Financial Resources

**Industry:** Financial Services

**Website:** <https://www.afrcorp.com/>

American Financial Resources, Inc. operates as a residential mortgage company. The company offers rural housing and investment property loans



## OVERVIEW

AFR serves thousands of mortgage brokers, bankers, lenders, homeowners, home buyers, realtors and contractors nationwide with their residential financing needs.

## REQUIREMENT

AFR is developing multiple portals for the Brokers, Borrowers, Builders, Realtors and Admin to support their customers' financial needs and required an automated solution to verify that the portals function effectively & flawlessly.

## CHALLENGE/ CUSTOMER PROBLEM

To run the functionality testing for all 9 of their major portals, which include 3rd party APIs, accounts & their related functions.

## KEY ACHIEVEMENTS

- Fully automated and synchronized regression tests across portals
- Build automation- nightly builds & automated tests
- Created 600+ test cases and scenarios
- Reduced regression testing from 48 hours to under 30 mins

## SOLUTION

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Riverstone team has developed a flexible automation framework for testing both the User Interface (UI) and Application Programming Interface (API) & simultaneously syncing with multiple portal and 3rd party APIs.

An automation test suite was also developed to reduce the regression testing time for their continuous integration jobs in Azure DevOps.

Our solution included the following stack:

- Created an AFR Automation flow and asserts merely based on data sync in multiple portals
- Created a DevOps pipeline with all the artifacts required to run the Specflow plus runner
- Scheduled daily runs for Automation build at 6.30 A.M in the DevOps pipeline to ensure all the portal sync is working fine.
- Reporting: Specflow plus for the BDD type test creation for a user-friendly report
- Integrated the stored procedure to delete the test data at the end of the test flow