Invenger
Striving for Excellence - Commitment to Values

Client : Leading USA based Insurance Company

Project : Automation of Mainframe based Eazypay Billing Regression Test Set

Introduction :

EazyPay is a monthly billing plan that offers customers a flexible, convenient way to pay off all their insurance bills. If a customer has a Homeowners policy, several cars, a Life Insurance policy, or even Insurance on their business, they can all be billed on one convenient monthly bill! With EazyPay, customers are in control. They can pay monthly, bi-monthly, every three months, or just a little extra each month.

Each time a new billing account is opened in the Policy Processing System, the EazyPay Billing System is automatically updated. This process improves timeliness and accuracy of customer bills.

EazyPay allows direct access of up to 18 months of historical account billing information. The billing information is available at a summarized level as well as specific details about each account. This provides customers with a greater level of detail about current or past billings.

Challenges Faced by Client:

- The Regression Test set had more than 300 test cases
- Each test case had more than 30 steps on an average. Each Test step involved multiple navigations on the Mainframe based system
- After each test step accomplished its task, there would be a mainframe based Batch job, which needed to be run to process the task, so that the policy data reaches the next stage to be able to execute the next test step
- Executing Regression Test steps and cases manually was an extremely laborious job
- There were also a significant number of testers needed to perform the manual regression testing
- Lack of resources available for Functional testing

Need :

- To automate 80 % of the Eazypay Billing Regression Test cases
- To reduce the manual intervention during testing phases
- To reduce the number of manual testers involved in Regression testing, so that they can focus on better functional requirements and Functional testing
- To run the tests multiple times with volumes of test data at different stages
- To notify the responsible team through emails when the system fails to act due to environmental failures

Solution:

Invenger QA team over a period of 2 months automated the 80 % of the entire Regression Test set. This included automating all the individual steps and sub tasks with the Regression test cases

Invenger QA team also automated the Batch jobs which were needed to be run after each test step execution, so as to reduce manual intervention

Some of the test steps included

- Creating new business rules or policies
- Automatically verifying new business in the mainframe system
- Process cash transactions on the policies
- Manage underwriting of policies through automation
- Trigger off automatic emails regarding payment information
- Trigger off automatic emails to System administrator in case of an environment issue
- Trigger off emails for test case passes or failure to the tester in-charge

Benefits:

- Reduced the Regression testing cycle time by 50%
- Improved the accuracy of Regression Testing
- Comprehensive automated reporting of results
- Effective utilization of Testing Resources in Functional testing rather than repeated Regression testing
- Reusable and modularized scripts which could handle changes in mainframe functionality

Tool Used : : Quick Test Professional 9.2, Terminal Emulator