Background

BIN stands for Bank Identification Number and is the unique identifier of a bank on a payment card. Due to the high costs involved in becoming an FSA approved card distributor many organisations choose to gain access to the card market through a primary vendor, effectively a sponsorship relationship between the master approved vendor (The BIN Sponsor) and the company wishing to offer the card to their customers.

A BIN sponsor needs an invoicing application to manage revenue streams from the cards issued through BIN sponsorship. Invoice charges can be calculated in a variety of ways based on volume of transaction, total amount of transactions or as a predetermined fee. In addition data to calculate these charges is based on card activity through ATM usage, merchant's POS or online e-commerce orders – therefore any automated invoicing application has to integrate with card processor data.

Business Goals

- Reduce time for invoice processing
- Increase accuracy of generated charges
- Rapid and easy creation and update of Business/Charging rules
- Support for multiple card processors
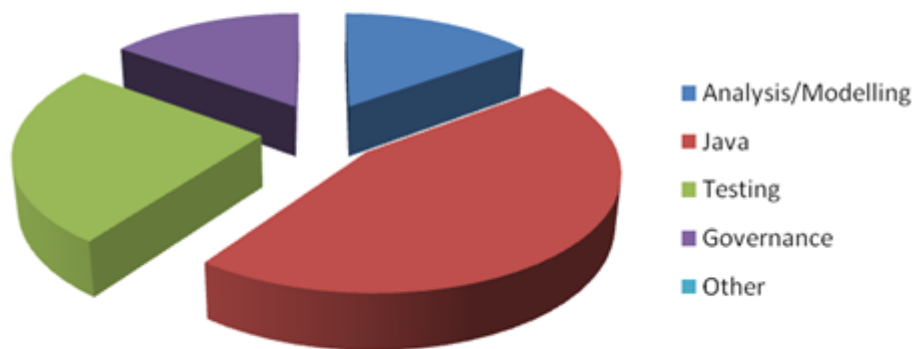- Better reporting

Solution and Metrics

The solution to BIN sponsorship invoicing was a data-rich application with some fairly complex business logic. RDF felt this assignment was a perfect test project to trial their new model driven delivery techniques. The developed BIN Sponsorship Invoicing Tool is a commercial, high quality application available for demonstration or purchase. However, perhaps more interesting was development speed and the resultant cost savings made by using the Mendix Model Driven Delivery Solution.

After fifteen years commercial experience delivering full life cycle bespoke software projects to big business, RDF feel that they are excellent at what they do. Building this product in Java, our well proven estimation process calculated 670 days effort. Using Mendix we built it in 171 days!

Java/UML/UP Approach
Discipline Breakdown

- Analysis/Modelling
- Java
- Testing
- Governance
- Other

Traditional iterative/incremental approach = **670 days**

Mendix Approach
Discipline Breakdown

- Analysis/Modelling
- Java
- Testing
- Governance
- Other

Actual development days using the Mendix Platform = **171 days**