Dimodelo Solutions

Money3 Data Warehouse Project Brief

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Adam Gilmore
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1 MONEY3 DATA WAREHOUSE PROJECT BRIEF

Accompanying documents:

- Money3 Data Warehouse Matrix.
- Money3 – Dimodelo Solutions Data Warehouse project contract.

1.1 SCOPE OF PROJECT

The Scope of the Data Warehouse project is outlined in the accompanying 'Money3 Data Warehouse Matrix' document. This document describes the scope of facts and dimensions in the Data Warehouse, a work breakdown structure, estimate, and requirements for each fact and dimension. This represents the entire scope of this project. Additions to scope will be recorded in the Changes register and their implementation will attract additional fees.

The Work Breakdown estimates the project @ 86.6 days. However the project is already partially complete so we reduced the estimate by 21.6 days.

Limitations to scope:

- Some of the requirements for measure are still unknown and are listed below:
  - Loan Ageing,
  - Bad Debt Ageing,
  - Unearned Income
  - Deferred Revenue
  - Lender, Contact, Settlement, current Branch definition.

  Dimodelo Solutions will provide its best efforts to deliver these measures, but their definition may constitute a change in scope at Dimodelo Solution's discretion.

- We have provided for a single overnight refresh of the Data Warehouse. Additional intraday refresh workflows will be in addition to project scope.
- Dimodelo Solutions won't be responsible for DBA work, Database tuning, Server Security and Server Authentication, Server configuration, Software installation and Provisioning, Cloud connectivity, Active directory group management or Network set up.
- Data quality issues. During the course of the Data Warehouse project, Dimodelo Solutions will come across some data quality issues in the source systems. Issues with completeness, correctness or timeliness etc. Other than trivial format, or content issues, a Data Warehouses doesn't usually try to fix these issues. Instead we will notify Money3 of the issue through the issue register.
- The Data Warehouse will only draw data from 2 source systems, Money3 Loan Management System and Master Data.
- User authority security (e.g. what branch a user can see etc.) will only be applied at the Presentation Data layer (i.e. Cube/Tabular), and not at the Data Warehouse layer or Presentation layers (Report server, PowerBI).
- There is no Organisational hierarchy dimension (I.e. Departments and the employees that belong to them) specified. Security will be based on AD group.
- The scope does not include any training of end users in the use of the data within the Data Warehouse.
- The scope does not include the development of any reports or visualizations.

1.2 COST AND PAYMENTS

The Cost to complete the project is $75,750 ex GST. The scope of the project is defined in the Scope section.

Payments will be based milestones on the delivery of following functionality to the Test environment.

- Transaction Fact and associated Dimensions and Measures.
- Reference Fact and associated Dimensions and Measures.
- Loan Accumulating Snapshot and associated Dimensions and Measures.
- Loan Periodic Snapshot and associated Dimensions and Measures.

Final Milestone:

- Finalization of Measures, System Testing and Acceptance Testing.

There will be four $15,000 (ex GST) milestone payments and a final $15,750 (ex GST) payment.

If any measures for a given fact remain un-defined then the milestone will still be considered complete. The un-defined measure will be delivered upon its definition and by the final milestone.

Fees exclude any travel and accommodation expenses.

1.3 CHANGE AND ISSUE AND RISK MANAGEMENT PROCESS

All additions and reductions of scope will be recorded in a simple change register.

All issues identified during the course of the project will be identified in a risk and issue register.

1.4 NATURE OF ENGAGEMENT

The terms of the engagement are set out in the accompanying contract. Dimodelo Solutions has a number of resources that we can use to complete the project. Adam Gilmore is the lead consultant on the project, and will predominantly use a single internal Data Warehouse developer. Occasionally we may employ other internal resources for specific tasks.

1.5 METHODOLOGY

The best way to deliver a Data Warehouse is to take an agile approach. Get a result in front of End Users quickly, and seek feedback and additional requirements. We will seek to deliver partial functionality during the course of the project.

1.6 EXISTING RELATIONSHIP

Money3 have purchased Dimodelo Architect, Dimodelo Solutions' Data Warehouse Automation tool. Dimodelo Architect reduces the time it takes to build and maintain a data warehouse. Adam Gilmore has spent a week with Dylan completing a POC, and has received a handover of requirements from Dylan.

1.7 ARCHITECTURAL CHANGES

We are also proposing the introduction of an SQL Server Analysis Services Cube or Tabular model. A Cube/Tabular model provides very quick response times to complex aggregated queries. It can be accessed via Pivot tables in Excel, directly via PowerBI, and as a Data Source in Reporting Services reports.

Further we are proposing to refactor some existing facts and dimensions, to improve on the design and performance.

1.8 RESPONSIBILITIES

Dimodelo Solutions will be responsible for:

- Design, Build, Unit Testing and Deployment of the solution.
- Fixing any issues found during the system testing phase of the project.

In additional Dimodelo Solutions will be jointly responsible with Money3 for defining business requirements.

Money3 will be responsible for

- Sign off on measures definition.
- Testing the solution. Ensuring the accuracy of the information.
- DBA work, Database tuning, Server Security and Server Authentication, Server configuration, Software installation and Provisioning, Cloud connectivity, Active directory group management and Network set up.
- Provide resources for Dimodelo Solutions to liaise with including a key point of contact for questions.
- Test and Production servers, the necessary software installed on those servers (e.g. SQL Server), network security and connectivity, monitoring and maintenance.
    - SQL Server Enterprise or BI editions 2014 or 2016. The planned solution relies on enterprise edition features i.e. ONLINE indexes, Column Stores, Master Data services, Cube perspectives and advanced Cube measure calculations.
    - Server. Provision an adequate server to provide acceptable performance of 90% of reports. In addition, if Money3 decide to use a tabular model, the server should have enough memory to store the tabular model in memory, and concurrently perform other functions of the Server (i.e SQL Server load, ETL load etc).
    - Network: Provide sufficient network bandwidth to cope with high bandwidth of ETL operations executing overnight.
    - Provide development software and a development environment. Dimodelo Architect, SQL Server Developer, Source databases for development and testing.