

Project Plan

MoneyBall

March 4, 2018

1 Project Details

Project Name: MoneyBall

Version: 0.8

Project Owned by : Stefan Willi Hart

2 Project Summary

The purpose of the project is to make use of the baseball data and make better decisions about the commitment of players with the help of data mining methods and techniques of baseball stats. We have made use of the lehmanns dataset provided to us and have performed the cleaning process on the data and have loaded the dataset in to the SAP HANA from our local database system using various procedures. We have associated the related data using calculation View in the HANA and there by we have implemented the predictive analysis algorithms on the associated data to serve our purpose better. The results have been rather positive. Our results from the process have retrieved various types of analysis which can be used to further narrow down on our purpose.

3 Scope Overview

3.1 Phase 1 – Requirement

- Understand what the project objectives are.
- Understand the requirements needed to be implemented.
- Gather the dataset and understand how the data is structured.
- Perform the data transformation process.
- Load the data in the HANA.

The requirement phase is the beginning phase of the project and these are the objectives that are followed in this phase. The result of this phase is a clean dataset with clear understanding of what needs to be done in the upcoming phases.

3.2 Phase 2 – Implementation

- Data in the HANA is further minimized by the association process.
- Research on how our dataset can be correlated or associated.
- Calculation view of HANA is used for the association.
- Associated data is further sent to the predictive analysis.
- Design of the User Interface to showcase the results.
- Implementation of the User Interface in SAP UI5.

Keeping the performance and accuracy as a main construct, the implementation in this phase is focused on correlating the data which are similar or which are dependent to further improve the analysis results. The result of this phase is a clean correlated data which can be further used to perform the predictive analysis, and also the implementation of the user interface to populate the result of the predictive analysis in SAP UI5.

3.3 Phase 3 – Evaluation

- Research on which algorithms suitable for the data.
- Research on the implementation details of the algorithms
- Implement the algorithms on the dataset
- Evaluation of the results
- Export the results back to the SAP UI5 User Interface and populate the results.

The result of this phase consist of all the predictive analysis results displayed in the SAP UI5 Fiori application.

4 Budget Overview

Estimated budget: This project was not funded.

Any changes to the budget must be documented in a revised project plan. Approval of relevant Project Manager and Project Owners is required.

5 Project Team

5.1 Project Owner

- Stefan Willi Hart - Accenture .

5.2 Implementation Team

- Nikhil Prakash Rao Raikar - Data and Knowledge Engineering, OVGU Magdeburg.
- Cheryl Mariam Jacob - Data and Knowledge Engineering, OVGU Magdeburg.
- Vamshi Bhushanaboina - Data and Knowledge Engineering, OVGU Magdeburg.
- Pooja Ajit - Digital Engineering, Ovgu Magdeburg.

5.3 Project Team Management

The project manager coordinates the project tasks assigned to team members. Changes to the project team require approval of the Project Manager and Project Owner.

6 Project Schedule

The project schedule, key project tasks, responsible groups and estimate hours are mentioned below.

Task	Estimated Complete Date	Done
Cleaning of data	17/12/2017	✓
Methods to load data	22/01/2017	✓
Functional Design Document	22/01/2017	✓
Design of User Interface	8/02/2017	✓
Research on algorithms	11/02/2017	✓
Implementation of algorithms	17/02/2017	✓
Evaluation Of results	24/02/2017	✓

7 Issues Management

As and when the issues arise within the project, each team member will determine if the issue is significant enough to solve it by using the tools given or consults with the whole team and takes their approval to report it to the Project Manager. For project work to continue efficiently, it is desirable that most issues be resolved, if the issue is not resolved it is advisable that the team should consult with the Project Manager and get the relevant inputs. Issues may include testing results, unexpected problems, and other items that impact project completion.

8 Approval

Below is documentation of confirmation that project owner/project manager have reviewed the information contained in this document and approve of this as the formal project plan for the project MoneyBall.

References

1. Gitlab.com: https://gitlab.com/nikhilraikar88/Project_MoneyBall/