

7. Evaluation and testing

7.1. Introduction

The evaluating and testing of the MIS defer from the usual software development. The methods on how to evaluate and to test an MIS are listed in this chapter.

7.2. Evaluation

The system usability is assessed inline with the guidelines such as shortening the time to accomplish end-to-end requests, reducing the number of mistakes made, reducing learning time and improving people's satisfaction with a system. As the GUI is an off the shelf product it complies with the norms of the industry. The main part when concerning the project is to have meaningful data on the left-hand side pane so that the user will be able to create his/her own report with minimum effort.

7.2.1 Usability

The system usability is assessed inline with the guidelines such as shortening the time to accomplish tasks. AS GUI is an off the shelf product the time spent on the learning curve would be less. Main points to learn is the required columns that need to get the correct information.

The fields that a user need are shown in the left hand side pane. The user need to understand the concept and the logic in building a report thus generating a set of information from the data.

7.2.2 Understandability

This refers to the level of understanding that the system user has over the system. The system does not contain any technical jargon, which leads to confusion. Wordings are taken from the domain itself. The column mappings will be conveyed to the users through a proper documentation.

7.3. Testing

As the MIS contain data from several systems the testing is mainly required to validate the cleansed dataset.

For the initial data set some test cases were used to check the validity of the data.

- Summed up totals of value fields before and after the loading process to check for all the data being captured on to the system.
- Row counts were taken to validate if all the data were captured.

After the initial cleansing of the data, daily upload of the data is done using the procedures created. These procedures have been tested at the initial stage and the new data is clean thus the in depth testing of the data is not required. But to check whether all the data were uploaded to the MIS the row counts are taken from both the sides and checked.

On the cleaned dataset several kinds of reports were generated to test the accuracy.

Similar data at same granularity existed in transaction systems: identical reports were generated from the MIS as well as the Transaction systems on these data and were checked for discrepancy.



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