Database EvaluatOr

project DSDM-Terms Of Reference

Document history

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Purpose of this document

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|  | * To state the business drivers for and objectives of the project * To describe in outline the scope of the project * To state any dependencies and constraints already known * To identify resources required for the next phase * To justify and secure funding for a feasibility investigation |  |

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# Business Driver

How can securely and efficiently implement database with suggestion of best practices is a challenge for an organization, especially for small and medium-sized enterprises as well as the database administrator.

For a new inventory data administrator who wants to determine the configuration parameter values for all SQL Server instances and databases, this process requires a lot of time and handwork.

This project can help customers solve this problem. The project is on the using of Microsoft Visual Studio and SQL Server Express to develop a client application and database evaluator. Customers can download the client application from the website and execute it to get the dump files which contain the configuration parameter values for all databases, and upload files to the website, which would after diagnosis reports.

# Objectives

* Client application

Client application is small and light weight application which will be executed by customer on their database system and application generated encrypted dump file which contains all the agreed database and SQL instance parameter values.

* Website

Customer can create their account on the website.

Customer can download Client application from the website.

Customer also can use FTP to upload dump file and download the final report.

* Database Evaluator

Database Evaluator (DBE) can generate the final diagnosed report.

# Scope

Inclusions

* Client application
  + Execute on customers’ system
  + Generate the dump files of parameters of customers’ database
* Website
  + Download client application form website
  + Upload the encrypted dump files via website
  + View and download the final diagnosed report
* Database Evaluator
  + Generate the final diagnosed report

Exclusions

* This project will not support the all type of operating system except Microsoft Windows.
* This project will not support the all type of database except Microsoft SQL 2008 R2 and Microsoft SQL 2012.

# Project Constraints

* This project needs to develop a client application which can be executed on customers’ system to generate a dump file about the parameters of their database.
* This project needs to establish a website for customers to download the client application and upload the dump files.
* This project needs to develop a database evaluator to generate the final diagnosed report.
* Customers should download client application form a particular website which will be developed by project team.
* Customers need to execute the client application on their system to generate the dump files
* Customers should upload the dump files via the website.

# Benefits

* Provide an effective and convince method for customers to monitor the parameters of their database.
* Audit the database appropriately and timely through the client application and the final diagnosed report.
* Promote customers efficiently to inspect their reports and adjust deficient parameters database.
* Release the contractor. Customers do not need to hire professional or contractor to evaluate their database system.

# Assumptions and Dependencies

The assumptions supporting the Project are:

* The sufficient staff resource is available for all aspects of the project.
* The adequate time is made available.
* The deliverables meet the prospective requirements.

# Project Risks

* Schedule Risk:

Project schedule get slip when project tasks and schedule release risks are not addressed properly.

* Technical risk:
* The lack of training
* The insufficient understand of the methods, tools, and techniques
* The lack of experience in the field of application
* To use the new technologies and the development method on the project
* Risk management:
* The insufficient planning and definition for the tasks
* The actual project status
* The communication between the project members
* Other risks:
* Market development - have the similar product

# Resources and Facilities Required

* Human resources

The project team of this project as follows:

* Steve McKinlay: Project Advisor
* Changming Wu: Project Manager, Test Manager
* Hardik Rajendrakunar Kansara: Database Specialist, Tester
* Kwinno Laxamana Pineda: Web Developer, Tester
* Patrick Ian Espinosa Cura: C# Developer, Tester

Project team will spend 31 hours of work each week on this project, totalling 435 hours and 14 weeks (11/07/16 – 16/10/16).

Steve McKinlay as the project advisors and give the corresponding feedbacks and suggestions during the weekly advisor meeting.

* Software resources

Kwinno Pineda as the Web Developer will use the following material:

* Eclipse PHP editor
* Notepad ++
* XAMPP and MySQL Database
* GIMP
* Wordpress

Patrick Cura as the Software Developer for the Client Application and Database Evaluator will use the following material:

* Microsoft Visual Studio 2015 Enterprise Edition
* Install Shield Limited Edition for Visual Studio
* Microsoft .NET Framework 4.5.2
* SQL Server Express
* SQL Server Management Studio

All of the materials mentioned are available over the internet and will be downloaded by the developer in need of them.

# Timescales and Costs

There is no cost included for this project and there is no risk involved with executing a client application on a database system as it will not modify any existing parameters for a database and database system.