Database EvaluatOr Business foundations

Document history

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Version | Date | Author | Changes | Valid from |
| 1.0 | 19-Jul-2016 | Changming Wu | Edit | 19-Jul-2016 |

Purpose of this document

|  |  |  |
| --- | --- | --- |
|  | * To provide a clear statement of the **Business Vision** for the project * To construct a few paragraphs describing the ‘big picture’ of the business, as it will be after the project has completed. * To describe how that picture differs from the current reality * To describe how this project will contribute to the required change * To name any other projects, either planned or in progress, that form part of the vision or may have an impact on vision * Specifically **NOT** to state requirements for the proposed solution * To present a **Business Case** for the project * To quantify the benefits to be delivered * To summarise the cost of the project and set the project budget * To perform a cost/benefit analysis to an appropriate level to justify the project * To define the critical success factors for the project in terms of: - * Timescale for delivery * Cost of delivery * Scope of deliverables * By reference to the Prioritised Requirements List, to define areas within the scope which may be desirable but not essential * To describe the strategic fit of the recommended solution with any applicable corporate/business strategies and standards, stating any concessions or assumptions made. |  |

Table of Contents

[1. The Vision 3](#_Toc464041549)

[2. The proposed solution 3](#_Toc464041550)

[2.1 Solution Overview 3](#_Toc464041551)

[2.2 Major Products to be delivered by the Project 3](#_Toc464041552)

[2.3 Quantified Costs 4](#_Toc464041553)

[3. The benefits 4](#_Toc464041554)

[3.1 Quantified Benefits 4](#_Toc464041555)

[3.2 Benefits Realisation Strategy 4](#_Toc464041556)

[4. Investment Appraisal 5](#_Toc464041557)

[4.1 Key Assumptions, Risks and Dependencies 5](#_Toc464041558)

# The Vision

Effective and safe monitoring and adjusting the database is a challenge for the small and medium-sized enterprises. Because these companies need to spend high price to hire a professional database administrator to manage their database. In terms of economy, it is not feasible for these enterprises for the small and medium-sized enterprises hire a professional database administrator. In terms of efficiency, for a new database administrator needs spend a lot of work and time to find out all the parameters of the database. The vision of this project is to help small and medium-sized enterprises monitor and adjust their database effectively and safely.

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. Customer could use the final diagnosed report to adjust their database effectively and safely.

# The proposed solution

## Solution Overview

This project aims to create a Database Evaluator, which will diagnose and check the basic implementation parameters of SQL Server Instances and Databases. A more detailed list of the outputs of the project are as follows:

* A Client Application that will produce a dump file containing details about a customer’s SQL Server database and instance parameters.
* A product website where the customer can download the Client Application and upload the SQL Server dump files generated by the Client Application.
* A Database Evaluator tool that will generate SQL Server evaluation reports using the data from the dump files uploaded by customers.

## Major Products to be delivered by the Project

Products to deliver are the following:

* Client Application – product to be downloaded from the Website and is used to collect SQL Server parameters
* Database Evaluator – product to be used to evaluate the SQL Server parameters of a customer
* Product Website – used to present the system in the online market

## Quantified Costs

This project has no equipment costs, material costs and other costs, only has the investment of human resources. There are four members in this project. Project team expects that this project will take 14 weeks to be completed, and each team member will work 31 hours per week, a total of 1736 hours.

# The benefits

## Quantified 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.

## Benefits Realisation Strategy

In order to achieve the previously mentioned benefits, project team will provide the products as following list:

* Client application
* Client application which is a lightweight application could be executed on their database system and generated the encrypted dump files which contain all the agreed database and SQL instance parameter values.
* Website
* Website is provided for customer to use.
* 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 when customers upload the dump file.

# Investment Appraisal

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## Key Assumptions, Risks and Dependencies

**The Key Assumptions of this 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.

**The Risks of this project:**

* 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

**The Dependencies of this project:**

* 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.