July 20, 2016

Project Team

WELTEC

Project Proposal

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| Author  Hardik Kansara | Signature | Status |

Process responsibilities

|  |  |  |
| --- | --- | --- |
| Responsibility | Role | Name |
| Draw up and change | Project member | Hardik Kansara |
| Execute work instruction | DBA team members |  |

Document history

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# Introduction

This proposal is requested by Robert Sutcliffe to identify all the parties involved in the project, to identify the processes, tools and methodologies to plan, design and implement the project system. The proposal is due on the 22nd July 2016.

# Executive Summary

This report looks at the proposed plans to build Database evaluator. The proposal looks at the personnel involved with the project, the purpose of the project, the available methodologies to build the website, the client requirements, the planning and management approaches to build the website, the costs and risks involved within the project and the project deliverables with their due dates.

The projects main aim is to produce a evaluator that diagnose and check the basic implementation parameters of SQL Server Instance and Database. The database evaluator will target all version of SQL Server starting with SQL Server 2008 and SQL Server 2012. Older version of SQL servers are not supported by this evaluator.

The project will run under the Software Engineering methodology, which will produce a high quality product and has no associated costs or risks in the implementation of the methodology.

The project has several management controls built in, this is to minimise the risk areas and improve the quality of the product. There are the standard advisor meetings, timecard, diaries and audits. Also change request controls and a methodology are used to control the processes used to develop and change the project.

Evaluator will be developed by using Microsoft Visual Studio and SQL Server Express. The website development tool will be the wordpress with mysql. Customer can download the evaluator from website and upload the file to website so it will be diagnose later. This tool is free to download and use which means there is no real risk and negligible downloading costs.

The execution will have three phases, download evaluator from webpage, execute evaluator against client system, Upload evaluator dump file to website.

The website will have webpage to describe and help customer to understand how to download and execute the evaluator. It will also help customer to upload the evaluator file and get the final result from database expert side.

Website will allowing the users to share the experience of the website and evaluator.

# Opportunity Context

The team need to do a project as part of their degree programme where team needs to find a suitable project client, to develop a solution to meet the client’s requirements to fulfil their project. Team can also suggest their own project which is approved by Robert. If it’s suggested by team then they need to clarify why they want to do this project with strong justification and what will be skill and technology used?

Database evaluator project is suggested by one of the project team member. So this project is not completely rely on any client. Because of this scope and requirement of the project will be decided by team members in beginning and as per this they want to build the database evaluator which can be executed by any client and fits in any client requirement to gather and evaluate the implementation of SQL Server and database. Project team will develop their own website to promote their product and register clients will download the evaluator and upload the results.

However the project team want to attract clients who has implemented SQL server in their infrastructure and want to know the implementation risk and verify the configuration of databases and SQL Server. The biggest opportunity with this project are first client can simply see what are missing parameters in exiting implementation and second if they have large number of SQL Server instances to be audited then it’s very easy by this tool.

# Project Requirements

The project team’s requirements are 400 hours of work each of the project member. The project will be due on the 4nd of November 2016.

Team has identify the core requirement of the project and divided into main below categories.

SQL Server Instance

1. Installation

2. Configuration

3. Security

SQL Server Database

1. Implementation of Database (physical structure)

2. Database Configuration Options

3. Maintenance

4. Security

Database evaluator can download and execute against the client system. Evaluator will create one dump file which contains the current information of all above areas of client system. This information will later verify, checked and final report will be generated.

From Project team perspective, they want a light weight and small evaluator which can run on client system and gather all the information which we needs to be audited. Team also need website from where client can download the evaluator as well as upload and download the result. Website will also help customer to know the how to use the evaluator.

The client’s requirements from the project will be a website that is fully functional, highly polished and links the irreverent careers test to currently available WelTec courses.

The project development teams perspective is that they want a successful outcome, namely a website that is functional, delivers the required material with efficiency and flair.

# Project Analysis

The team is composed of a Database Specialist, a Web Developer, a Programmer and a certified Project Manager.

The Database Specialist is experienced in handling and administering Microsoft SQL Server that is why it is the target RDBMS of the project. With his skills we are confident to produce a Database Evaluation tool that is up to standards.

Given that the target RDBMS is a Microsoft Product, the Database Evaluator will be built using a Microsoft product as well. In this case, the team’s Programmer will have to adjust and learn how to program Windows Desktop applications using C#. Visual Studio already has some tools to make the GUI of Desktop applications easier so this will aid the programmer.

The product website will be built using PHP, Wordpress and mySQL. Many websites are built using the said technologies so finding references to aid in the web development would be easier. Also, Wordpress, being a CMS tool, has a lot of Plugins and Themes that just needs to be imported to use. These plugins will make the web designing much easier. It also has plugins for E-Commerce which is something that the team wants to implement on the site. Lastly, the Web Developer in the team has experience developing websites using the said technologies so they are the logical choice in this case.

For Source Code and Document Management, GitHub will be used to keep track of code and document changes and updates. This is quite easy to use even for first time users given that there is GitHub Desktop for easy upload. Viber is also being used for the team’s means of communicating. A group chat was initiated and ideas, links etc. are being shared through it.

# System Outline

The project team will follow a methodology to build a robust website and database evaluator,

The website will have webpage to describe and help customer to understand how to download and execute the evaluator on their system. It will also help customer to upload the dump file and get the final result from database expert side.

A database evaluator is light weight tool which install on client system, connect to SQL server instance and execute. It will generate the dump file which contains all the current information of all the predefine areas of SQL server instance and database. Evaluator either run to check only SQL Server instance configuration or you can execute on instance with single database. You cannot execute the evaluator on multiple database at a same time.

Dump file will uploaded on website by client which will later diagnose by another tool just to verify and cross check all the information against with the SQL Server best practice.

# Approach

This project will use Spiral Methodology. The Spiral Methodology can identify and reduce the inchoate risk of project. It uses the small scope of the exploration risk to develop the corresponding risk plan. After that, then decide whether to do the next phase in the project.

* Through the creation of a prototype, enables software developers initially clear direction in each iteration;
* Through risk analysis software to minimize the possibility of loss of complete failure;
* In each iteration stage implant software testing, the quality of each stage is guaranteed

*Add the details information for each phase*

* The clear goal of the iterative phase, as well as options to restrict the application of alternatives;
* To evaluate alternatives, identify and resolve risks, and create a prototype;
* When the risk of getting a good analysis and solution, applications waterfall model developed and tested at this stage;
* To plan and deploy the next stage;
* To review the present stage;

# Management

* Weekly meetings:

In order to track the project management, the development team will use 0.5 hour to have weekly meeting on every Tuesday 11 am – 11:30 am.

In weekly meeting, the development team will summarize and analyze the weekly project status, reflect and discuss issues which cannot be solved, and adjust the project tasks for next week plan.

* Advisor Meeting:

The development team will use 0.5 hour to have weekly meeting with project advisor on every *XXXX*.

The project advisor will inspect the completed work on weekly schedule of the development team and give the corresponding feedbacks and suggestions.

Each meeting will to be recorded including clearly reflected in each project record, party views the current state of the project and decision-making.

* Daily administration:

Daily administration is for developers to record daily work content, time spent and the problems encountered in the course of their work, ideas and solutions to problems.

* Management tool

This project will use Github to manage materials in progress, and the deliverables. It is not only can create a repository to make sure everyone has good access to the work product but also it can backup appropriately and write comments for each changed.

# Plans and Procedures

See Project Plan

*Change control form?*

# Staff

List all staff required in the plan, including client staff, with an estimate of their utilisation from your plan (total hours and special date requirements, especially for clients, client staff, advisors).

*We don’t have client*

# Deliverables

* Project deliverables and their estimated completion dates are as follows:

|  |  |
| --- | --- |
| Deliverable | Date |
| Project Proposal |  |
| Project Plan/Gantt Chart |  |
| Scope of Project |  |
| Requirements Analysis |  |
| Analysis and Design Documents |  |
| Training Documents |  |
| Testing Plan |  |
| Test Case |  |
| Test Results/Record |  |

* Project milestones and their estimated completion dates are as follows:

|  |  |  |
| --- | --- | --- |
| Milestone | | Date |
| Meet Project Advisor | |  |
| Project Proposal |  | |
| Project Plan/Gantt Chart |  | |
| Analysis and Design Documents |  | |
| Database |  | |
| Website |  | |
| Test |  | |
| Project Presentation |  | |

# Resumes (CVs)

* Changming Wu: Project Manager, Test Manager

Personal Details:

Contact Number: 021 188 7191

Email: wuchangming729@gmail.com

Qualifications/Education:

Work History:

* Hardik Kansara: Database Specialist, Tester

Personal Details:

Contact Number: 021 181 1046

Email: hardik.kansara2002@gmail.com

Qualifications/Education:

Work History:

* Kwinno Pineda: Web Developer, Tester

Personal Details:

Contact Number: 021 296 8600

Email: kwenno@yahoo.com

Qualifications/Education:

Work History:

* Patrick Cura: C# Developer, Tester

Personal Details:

Contact Number: 021 295 3418

Email: patrick\_cura1989@yahoo.com

Qualifications/Education:

Work History:

# Relevant Background Information

This project is about using Microsoft Visual Studio and SQL Server Express to develop Database simulator. Customers can download the simulator from a website, execute simulator against client system, and upload the file to the website so it will be diagnosed later.

# Resources

List all material resource requirements; for each identify who is responsible for delivering it, and when.

# Client Acceptance

Sign off sheet for this proposal, and a statement authorising the commencement of the next identified phase. Include appropriate disclaimers and confidentiality agreement (usually the 3 indented paragraphs below)

# Appendices

* Project Plan
* Change Control form