Team A

Implementation and Deployment Plan

CIS-470 – Senior Project



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| Team: | Team A |
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| Project Title: | Williams Specialty Company - - Business Automation |

1. **Required Hardware**

The Business Process Automation (BPA) application system will run on the Windows 7 work stations that are already in place and more then meet the requirements to run the required software with their 1 gigahertz (GHz) or faster processor, 1 gigabyte (GB) RAM and 20GB or greater hard drive.

The sever that will host the application and database should be capable of handling 2000 to 3000 request a day should meet the minimum requirements of Corei3 2.13Ghz processor, minimum of 4GB of RAM and 1 terabyte hard drive.

1. **Required Operating System environment**

Windows 7 workstations will have XAMPP 5.6.19 installed in order to run Apache server required to run the application system but will require no other software.

The server will be running Ubuntu Server 14.04.4 LTS along with LAMP to run Apache server, MariaDB and PHP.

1. **Software and Hardware Installation/Deployment**
2. System   
   Modular conversion to install and deploy the Business Process Automation (BPA) application system. The server will have to first be configured with LAMP, GitHub and the database will have to be configured.

Work stations will then be configured by use of a Git deployment and bash file. With use of the Git deployment all work stations will be configured at the same time.

1. Location   
   Williams being an organization with only one location simultaneous conversion is method that will be used.
2. **Migration Plan**
3. System Conversion:

Migration of the current MySQL database will be completed by use of mysqldump to create a complete dump of the whole database to a mysql.sql file. The mysql.sql file will then be imported by MariaDB to recreate data. **Important note:** Legacy database should be kept intact and not decommissioned until verification of data migration can be confirmed.

1. Migration/Implementation Tasks:
2. Configure server with LAMP.
3. Creation of mysqldump file.
4. Dump file imported to MariaDB
5. Ensure successful migration of database.
6. Configure work stations with Git deployment and bash file.
7. In case of database failure bring legacy MySQL database back online.
8. Training and Turnover:

After verification that system has intergraded successfully and data migration is complete control of the business automation system will be turned over to principles and will be maintained by them with support provided by our team.

Training of system administrators will take place two weeks before deployment and will consist of a five-day training period to ensure administrator has proper knowledge to administer the business automation system and steps to take if a catastrophic failure occurs.

Training for system users will take place will take place one week before deployment. User’s will be broken up into five groups that will allow for minimal disruption of everyday business operations that will need to continue to take place. User’s will be provided with user manuals and instructions on where to reach out for further assistance if required.

1. **Post Implementation Activities**
2. System Support

The contractor will provide needed support for a term of one year after implementation date of the business automation system. After such time arrangements will need to be made in order to have continued support from said contractors or negotiate support from a third party.

1. System Maintenance

System updates and patches to correct bugs in the system will be done on an as-needed basis for one year after implementation. After such time new terms will be negotiated.

1. Project Assessment

Project assessment will take place thirty days following implementation of system. With the use of customer surveys, site visits and tracking of system metrics we will determine the success of the system and discus lessons learned. After the first thirty-day assessment future assessments should be conducted every ninety days until the end of the one-year period.