Deakin University

BCP Process Application

Project Handover

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Project Team
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Document Version 1.0

Purpose

This document defines the transfer of all relevant information and artefacts produced during SIT782. With this document, a new member should be able to identify all key aspects and artefacts of the project and have access to key systems or configurations.

Project Description

Maintaining function of hospital systems are a matter of life and death. Failure of one system can have many repercussions; having BCP's in place to respond as quickly and effectively as possible is of paramount importance. However, managing all these BCPs can also cause issues, especially without a central reference point to rely upon for staff.

The BCP Process Application aims to solve these issues by providing a web interface that connects to a central, common database to provide a simple tool for all staff to use for viewing, creating and editing BCP's in addition to administrators managing those plans.

Artefacts List

The BCP Process Application has been built using PHP; accordingly, a large portion of the artefacts that exist are .php source code files that align with each specific functionality. There are also front-end files that have been utilised from a previous team, that has been kept in its entirety, and so include a lot of various unused images and other files.

Artefact Name	Artefact Type	Revision Number	Notes
Source Code	.zip of php files		Includes all web page code
Front-end files	.zip		Includes images, css, and other scripts used to build the front-end of the application
BCP Product Flow	.pdf		
UX Design Document	.pdf		
Database schema and design	.png and .accdb		Includes ERD of database
Infrastructure Document	.pdf		Includes credentials to web platform and database

Business Features

As this is part of SIT782, many features were already implemented, which we will not mention here.

Feature	Client Sign-Off State	State	Notes
View existing BCPs		Final	Completed
Edit existing BCPs		Final	Incomplete, still needs to be fixed to allow edit of selected BCP
Add/Edit Reference Data		Final	Completed, improvements could possibly be made such as table view of existing reference data
Navigational Links in		Final	Completed

Header and Footer			

Planned Work

Planned Feature	State	Sprint	Notes
Finish Edit existing BCPs	Not-Completed	4	Needs to refer to selected BCP as it navigates to the build a BCP page and transfer those changes/edits to the database. After that is done, should navigate back to View BCP page.
Table view of Reference Data	Not-Completed		Table View of Reference Data will make viewing existing data easier.
BCP document output	Not-Completed		Create a document of the BCP for the user to print
Fix Admin meun	Not-Completed		Make changes on how admin data is presented

Open Issues

- BCP document output; as a team we have agreed that this is something that needs to be followed up.
- String length for “action” items(text box & dB Text maximum lengths) in the BCP creation process has been left as a “to-be-decided" by the client as it will impact the overall readability of the document, due to the column width and the limitations of the layout.
- Completion of the Edit function has not occurred due to time available.

Lessons Learned

- Confirm data schemas to ensure proper development.
- Using AJAX in most of the design requires the use of synchronous blocking mode when calls are made which allows for proper JavaScript evaluation of the information on the screen. Using non-blocking asynchronous AJAX calls, will causes JavaScript subroutines to miss data as the data has not loaded in full. This is by design.
- Given the complexity of the project moving forward, it would be prudent to have a few front/back end programmers work on this project.

High-level architecture of the product

For this project, we have combined previous teamwork where we decided to focus on specific areas to produce a demonstrate minimal viable product. Our goal was to focus on:

- Maintain the use us a web-based solution.
- Use open source database and the scripting language PHP.
- Redesign existing implementations based on information from the client.

- Rethink best practice process for data input and extraction process by using web forms.

These were the core capabilities necessary to demonstrate product viability and proof of concept.

Development Platform
It was imperative that a suitable technology stack was implemented, to not only suit the current build requirements, but for future development in various environments. This included:

- A LAMP Dev Platform, which is a free to use software and attractive to commercial institutes for this reason.
- VMWare for ease of backup/deployment.
- Use of PHP as a primary back end language and a MYSQL compatible database (MariaDB), which can be easily transferred to other secure infrastructure solutions and platforms for ease of portability.

Design
For the design aspect of this project, it was a large focus from a UX standpoint, to ensure a customer centric approach. This was achieved by creating:

- A streamlined process to minimise unnecessary information.
- As well as user-friendly interface for ease of use.

User Manual

This approximates the process of accessing and using the package created :

Login – enter username and password or create a user account by following the prompts.
Create your own BCP – select “Start New BCP Plan” to build your BCP. Select all data and fill in text boxes then click submit.
View BCP – shows a table of all existing BCP documents, and allows edit of selected BCP
Reference Tables – allows edits of reference data that is stored in the commons database used to populate the BCPs.

Admin Menu – Where user account and system configuration can be completed.
System Administration – Manages email services
User Administration – Manages the user accounts

Account - Allows for the user to edit their personal logon details.

Other Documents

The Debian LAMP build documentation is contained in the git repository.
The primary file list is also contained in the git as well as the .SQL tables template.

Sign-off

We BCP Team 1, have included all relevant material which is agreed to be included in this handover. If an artefact is not included, it is stipulated in the Planned Work section, or artefacts list.

Date:

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Signed

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