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ACME Entertainment Pty Ltd

South Metropolitan TAFE

SOFTWARE REVIEW PLAN

Rapid Application Development

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# Introduction

This Software Review Plan will provide you different aspects of this Web Application. The Team Members will examine the Web Application so it can meet the [WCAG](#_Glossary_of_Term_1) requirement. Software Review Plan is an important phase of [Software Development Life Cycle (SDLC),](#_Glossary_of_Term) as it validates the functionality, quality and others features of the Web Application. Our team implemented Agile Development as our [SDLC](#_Glossary_of_Term) for our project. During the development phases, we are implementing [IEEE](#_Glossary_of_Term) Standard 1028.

## [IEEE](#_Glossary_of_Term) Standard 1028

The standard provides minimum acceptable requirements for systematic reviews.

# Management Preparation

The following information are the resources provided during the review of this Web Application:

* Work in a team of three, we will evenly allocate tasks to every team member.
* We are provided with two-week time to review our Web Application, to ensure it covered all requirement raised by the client and meet [WCAG](#_Glossary_of_Term_1) requirement
* We are provided with materials like notes and templates which can be found on Blackboard.
* We will provide the client with a Software Development Testing Plan which is based on [Quality Assurance (QA)](#_Glossary_of_Term) of CITE.
* We will provide the client with our Project Management Plan and Software Testing Plan.

# Objectives for this Web Application

|  |  |  |
| --- | --- | --- |
| Case No | Description | Allocated to: |
| 1 | Ensure our Web Application are Responsive | Daniel Hee, Tze Yee Hon, Jayden Lee |
| 2 | Member Subscribe and Unsubscribe Functionality | Daniel Hee, Tze Yee Hon |
| 3 | Admin: Login, Remove Member, Show all Member | Jayden Lee |
| 4 | CSS Design: Nav Bar, Make Website Responsive | Tze Yee Hon |
| 5 | Code Commenting | Daniel Hee, Tze Yee Hon, Jayden Lee |
| 6 | Ensure all report formatting are the same | Daniel Hee |
| 7 | Software Testing Plan for our project | Jayden Lee |
| 8 | Create users and groups in database | Tze Yee Hon, Jayden Lee |
| 9 | Creating Analytics Web Page which utilizes the top 10 data stream | Daniel Hee |
| 10 | Ensure the website meet WCAG requirement | Daniel Hee, Tze Yee Hon, Jayden Lee |

# Overview of the Objectives

During the progress, we will have a meeting to discuss the objectives that need to be achieve in order to develop a fully functional website.

The following information are the criteria that should be discussed during the meeting:

* Purpose of this meeting
* Ensure the Web Application meet [WCAG](#_Glossary_of_Term_1) requirement
* Provide a time frame to all agenda
* Provide guidelines for each agenda

# Individual Preparation

After the Team Member have evenly allocated work for each team member.

The following information are requirement needed during the development phase by individual:

* Ensure to put code commenting on all methods you implemented during the development phase
* After an individual are done with their parts, ensure to write what have you implemented in your project and the issues you faced during the development phase.
* Discuss with your team member through a collaboration software of your choice. In my team, we are using Trello as our collaboration software to communicate with our team.

# Group Examination

At this stage, the team member will gather together to further discuss about their progression.

The following information are the agenda that will be discuss during the meeting:

* Examine all documentation, to ensure it have proper formatting, correct layout, bibliography and glossary of term
* Examine all code have been commented
* Ensure all documentation have adequate information
* Test the application, to ensure all functionality have been created and worked as per the client’s request.
* Future Proofing

# Defect Prevention

At this stage, Scrum Master will compile all defects and allocate them to each team member to repair the defects. After all defects has been solved, the scrum master will compile every document into a master document and present them to the client.

# How the team ensured the development quality of the software during the three sprints?

## Testing from the beginning of the project

The project is divided into three sprints, which every sprint ended with delivering a working piece of code. In each sprint has a testing plan to test every required functionalities of the website and needed to test as early as possible in order to be able to present a proven solution for the client.

## Communication

We held daily meeting with the development team. If any bug is found, the team is aware of it and can react quickly. Not only does the team have to communicate with each other but also necessary to talk to the customer’s representative (Lecturer). This is important because the team not only informs them about the progress of their work but also gets answers regarding any doubts, for example about how a specific function should work.

## Code Quality

We must follow Centre of Information Technology Excellence (CITE) coding standard to ensure high coding quality. It improves consistency and readability, maintainability, reliability of the codebase. Beside of that, we also use code beautifier to enhance our coding structures.

# What processes were utilized to ensure adequate control of the quality of the development process.

## Documentation

Documentation is essential during the development process. It’s given you the vision of the overall project, plans, tracking, schedule, and risk analysis. We have several reports in each sprint that necessary are Project Management plan, Meeting minutes and Testing Report. Other than that are below:  
Sprint One – Multi-platform Report, Analysis Report  
Sprint Two – Software Review Plan, Performance Report  
Sprint Three – Optimization Report

## Version Control

Version control is important because developing a huge project involving many developers could lead you in chaos if without acknowledge each change of code and documents. We are using GitHub as our source control system as it allows you to compare files, identify differences, and merge the changes if needed prior to committing any code. Versioning is also a great way to keep track of application builds by being able to identify which version is currently in development.

## Management

We are using Trello as management system that gives us a visual overview of what is being worked on and who is working on it. Each scrum master will allocate the tasks to members to works on. So, it could keep productivity to highest levels and maintain flexibility.

# Code Testing Process

We used to test out the features and functionality of the website according to the CITE Quality Assurance as below:

* Functional and Regression Testing
* GUI and Usability Testing
* Accessibility Testing
* Compatibility Testing
* Performance Testing
* Installation / Configuration Testing
* System / Integration Testing
* Security Testing
* Internationalization / Localization Testing
* User Acceptance Testing (UAT)

# How can the software be supported for future modification and refinements (comments, code documentation, development plans)?

# Provide a mapping of the user requirement to the final software product (did you meet the client’s expectations and requirements).

# Conclusion:

The Team Member gather together to do a final examination and review to ensure all outputs have met the [WCAG](#_Glossary_of_Term_1) guidelines. After the process, the team member will the client with the final product.

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# Bibliography

*Software Review*. (n.d.). Retrieved from Wikepedia: https://en.wikipedia.org/wiki/Software\_review#IEEE\_1028\_generic\_process\_for\_formal\_reviews

*Software Review*. (2019, May 9). Retrieved from ProfessionalQA: http://www.professionalqa.com/software-review

# Glossary of Term

**Institute of Electrical and Electronics Engineers (IEEE)** – This is a professional association for electronic engineering and electrical engineering with its corporate office in New York City and its operation center in Piscataway New Jersey.

**Software Development Life Cycle (SDLC)** – This is a process used by the software industry to design, develop and test high quality software.

**Quality Assurance (QA)** – Is a way of preventing mistakes and defects in manufactured products and avoiding problems when delivering products or services to customers

**Web Content Accessibility Guidelines (WCAG)** – This are part of a series of web accessibility guidelines published by the Web Accessibility Initiative (WAI) of the World Wide Web Consortium (W3C).