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ACME Entertainment Pty Ltd

South Metropolitan TAFE

Analysis Report

Rapid Application Development

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# CITE Business Rules for Software Development

CITE has their own coding standards to tell developers write all code according to the coding standards outlined by CITE. These standards are to ensure that large project can be coded in a consistent style.

## The Common Aspects of CITE Coding Standard:

* Naming Conventions
* File Naming and Organization
* Formatting and Indentation
* Comments and Documentation
* Pointer and Reference Usage
* Testing

The context of the language and client’s requirements will affect the coding standards. Without meeting the standards, the CITE developers will default to the industry standard.

The following “[ISO](#_Glossary_of_Term" \o "International Organization for Standardization )” Standards will cover all the systems and projects:

* “[ISO](#_Glossary_of_Term)” / ”[IEC](#_Glossary_of_Term)” / ”[IEEE](#_Glossary_of_Term)” 12207:2017 Systems and software engineering – Software life cycle processes.

# CITE Managed Service [Quality Assurance](#_Glossary_of_Term)

CITE Managed Services has actualized a Quality Management System (QMS) containing a mind-boggling set of engineering and managerial activities that guarantee bespoke quality of delivered software throughout the whole work process

## Quality Management Services’ Tasks and Objectives

* Elaboration and execution of methods and guidelines for software development process dependent on industry standards and best practices
* Product lifecycle monitoring to make sure compliance with established processes and guidelines
* Product quality verification and validation to ensure that it conforms with client’ business necessities and expectancy
* Establishment of an efficient teamwork between all project team members

## Comprehensive Approach to Quality

* Quality Planning
  + During the development cycle of each project, CITE Managed Services will gather the suitable sets of standards, regulations, procedures, guidelines and tools in quality plans
* Quality Assurance
  + To ensure that quality standards are being followed and delivered software implemented with client’s requirement, CITE Managed Services has established processes that appraise project performance
* Quality Control
  + CITE Managed Services will measure performance trends to evaluate defective pieces of code and ensure that deliverables are high quality and correct

## Independent [QA](#_Glossary_of_Term) Department

CITE Managed Services has an independent “[QA](#_Glossary_of_Term)” department. The “[QA](#_Glossary_of_Term)” department leads by experienced “[QA](#_Glossary_of_Term)” engineers who engaged in projects on a committed or an on-demand basis. The division of “[QA](#_Glossary_of_Term)” engineers will be based on project complexity; they can be rearranged upon requirement. This is giving flexibility to enhance efforts and overall project budget. The “[QA](#_Glossary_of_Term)” department will responsible for:

* Full-cycle “[QA](#_Glossary_of_Term)” Testing
* Document and Code Reviews
* Defect Tracking
* Process Monitoring
* Risk Management

## Quality Assurance Life Cycle

The phase of QA life Cycle at CITE Managed Services as below:

1. Initiation and Planning – Project specification analysis, test plan elaboration and team assignment
2. First Review – Initial testing of first development deliverables, refining the test plan and test item (if necessary)
3. Iteration Audits – Ongoing testing of intermediate iterations builds
4. Final Verification and Validation – Final product testing to ensure bespoke quality and readiness for deployment

Despite of that, CITE Managed Services also employ full spectrum of test types to make sure client’s project enjoy in-depth quality assurance:

* 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)

# ACME Entertainment Pty Ltd development requirements

* Review and update application to ensure it can be used across all major digital platforms
* Must include multi-platform report to explain the advantages of adaptive and responsive design and what design we choose to use on this application
* Ensure the development of the application can be hosted on the cloud or suitable local server
* Create a testing plan to trace testing result of the application

# Bibliography

*Coding Standards*. (n.d.). Retrieved from CITE Managed Services: http://www.citems.com.au/?page\_id=93

*Quality Management* . (n.d.). Retrieved from CITE Managed Services: http://www.citems.com.au/?page\_id=84

# Glossary of Term

**International Organization for Standardization (ISO)** – This is an international standard-setting body composed of representatives from various national standards organizations.

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

**International Electrotechnical Commission (IEC)** – This is an international standards organization that prepares and publishes international standards for all electrical, electronic and related technologies – collectively known as “electrotechnology”.

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