



Document Details			
Version Number	Last Updated	Developed/Edited By	Validation Date
1.1	27/09/2019	Godwin	Oct 2019
Training Package	ICT Information and Communications Technology Training Package		
Qualification Title	ICT50718 – Diploma of Software Development		
State Code	BEG8		
Course Title	Rapid App Development		
Assessment Title	Project Assessment Task Three SPRINT THREE		
Brief Description of Assessment Task			
A teams based RAD project to develop/modify/amend/review a Movie Database Application to suit the specific requirements as outlined by the client.			
Units of competency, elements to be assessed			
National Code	Competency Title	Elements of Competency	
ICTPRG509	Build using rapid application development	1. Construct an application using RAD 2. Prepare the handover stage	
ICTPRG515	Review developed software	1. Review the quality standards 2. Determine development quality issues 3. Review the specific quality areas	
Date of Assessment	Week 5	Completed by	Week 10
Instructions to Students	Create a fully operational application with a web site interface that will provide a search option, an authentication for users and suit multiplatform delivery. Create and implement the associated documentation for the RAD and Software Review. Ensure the document is in a suitable report format. Demonstrate the fully operational web interface.		
Resources Required	Reference books / Internet / Blackboard / CITE		
Instructions to Lecturer/Assessor	Ensure the students are fairly allocated into teams of 3 students. This can include membership across campuses. Review the demonstration of each prototype features at each milestone by the Team Leader. Collect and assess all project and documentation at the end of the milestone sessions. Refer to solution document for sample solutions.		
Lecturer's Details (Add your Lecturers details below)			
Name			
Email			
Campus			

Students to sign this document when submitting an assessment

Date Submitted:		
STUDENT DECLARATION		
<ul style="list-style-type: none"> I have read and understand the details of the assessment. I have been informed of the conditions of the assessment and the appeals process. I agree to participate in this assessment. I certify that the attached is my own work. 		
Student ID	Student Name	Student Signature



Assessment Feedback (Lecturer and Student Copy)			
Assessment Title	Project Assessment Task Two		
Candidate name		Attempt No	
Assessor name			
Performance demonstrated by this assessment is	Satisfactory <input type="checkbox"/>	Not Yet Satisfactory <input type="checkbox"/>	
	Assessment outcome and feedback received on	Date	
Assessor Comments:			
Candidate signature: <i>(once feedback has been received)</i>		Date	
Assessor signature: <i>(once feedback has been provided)</i>		Date	

Project Assessment Task Two

RAD Software Development

This project will use a RAD and Agile methodology to complete the development of a basic Movie Database application. For detailed information about these software development methodologies read the PDF documents in the Software Development section on Blackboard.

Read the information below and begin completing the associated tasks. It is critical that all team members are familiar with all aspects of the development. There are four major milestones, the first three will be the assessment points for each of the Scrum Masters (team leaders for each sprint). The Weekly Schedule (shown below) outlines each of these milestones, the final milestone will be a group presentation. As the development progresses the team will collect information, create mini-reports and develop the Movie Database application. These mini-reports and associated sprint documentation will be collated into a single **Software Development Master Document** and reviewed for assessment by the assessor at the end of each sprint. Ensure this report is properly formatted and stored as part of the Source Control files.

Team Update

The following documentation must be completed before the team members can begin work on the tasks for Sprint Three, have a meeting and select the third Scrum Master for sprint three, the Scrum Master must be different from the previous two sprints.

Team Name _____

Scrum Master (3rd team leader) _____

Team Member (#2) _____

Team Member (#3) _____

Tasks

In the final sprint the team will work on the application and add a security interface and analytics option.

Throughout the development process all code must be uploaded to the team Source Control. Ensure version numbers are utilised to track the changes as the project progresses.

Sprint Three Client Requirements

Acme Entertainment Pty Ltd Requirements UPDATE

Acme would like to improve the security of their database logon and requires a suitable method which will prevent common attacks on the database. Therefore, they request a password system for administrators and Acme personnel. Create the appropriate users and groups in the movie database so administrators can log on securely using a password (or suitable biometric alternative). The password must pass a minimum complexity test.

Create a query that will calculate the top 10 most popular movies each time the Top 10 web page is opened. The query should also update when a user adds a rating to a movie. The data from the top 10 movies should be appended to a new streaming table in the movie database each time there is a

change in the top 10 ratings. Using the data from the streaming table to create a chart front end to display the data. The front end should be refreshing automatically to show the changing values in the data. You may be required to use an external API or plug in. Your final solution may vary depending on the database implementation (local server, cloud, etc), contact your CITE representative for clarification.

Implement code and performance optimisers on all appropriate code and document this process. Create a suitable **Optimisation Report** for inclusion with your **Software Development Master Document**.

Contact the CITE representative and discuss the all requirements to ensure quality of development and final application (minute this meeting for inclusion into the Software Development Master Document).

Submission and Assessment Requirements

Before the third sprint milestone ensure the team has completed the **Software Development Master Document** with the following four (4) items and associated project information. Provide a copy of the software application which includes the Sprint One, Two and Three requirements.

- ☐ 1. Source Control snapshot
- ☐ 2. Optimisation Report
- ☐ 3. Updated Project Management Plan for Sprint Three
- ☐ 4. Updated Software Testing Plan which reflects the final sprint of the agile development
- ☐ 5. Demonstrate the movie database application which uses the password feature and top 10 information.
- ☐ 6. Demonstrate the analytics web page (or similar interface) which utilises the historic top 10 data stream

Demonstration

During the demonstration the app must be opened and allow a user to log in as an administrator. The top 10 movies must be shown along with evidence of the historical charts (or similar) of top 10 movies (Analytics). The team leader will be required to answer questions on each aspect of the submission document(s) and the application code. The team leader cannot defer to other team members and must have full knowledge of the project.

AUV92 E.2.2, E2.4 E3
AUV85 E.1.2-1.7, E.2.

Marking Guidelines for Student Teams

- The application functions correctly on a chosen platform
- Administrators can access the Db
- Analytics are working correctly
- Ensure all documentation is properly formatted
- Ensure all topics are covered using common terminology
- The presenter can explain the functions for administrators and data display
- All Testing has been documented

Weekly Schedule

	MILESTONE	TASK	DESCRIPTION
Week Five	Analysis Report	Work on Project	Complete the documentation for the analysis and client requirements. Submit the documentation for review.
Week Six	Sprint One	Assessment Point.	The first Scrum Master will present the application with Sprint One requirements.
Week Seven	Sprint Two	Assessment Point.	The second Scrum Master will present the application with Sprint Two requirements.
Week Eight	Sprint Three	Assessment Point.	The third Scrum Master will present the application with Sprint Three requirements.
Week Nine	Software Review	Work on Project	Add the final modifications to the Movie Database Application. Finalise the web app testing documentation and complete the software review documentation.
Week Ten	Demonstration and Handover	Assessment Point for entire team.	The team will present the application and handover. Submit all associated documentation.

The project will follow the schedule as shown above, it is critical to meet the sprint milestones because these are formal assessment points. If you are unable to attend your designated milestone you will need to make prior alternative arrangements with your assessor. Ensure that any missed milestones assessment points are accompanied with the appropriate documentation (ie Doctors certificate) as per South Metro TAFEs regulations. Your lecturer has the option to change the team lead member for each assessment point in order to satisfy AQF and ASQA requirements.

References

<https://www.asqa.gov.au/standards/chapter-4/clauses-1.8-1.12>
<https://www.asqa.gov.au/standards/chapter-4>
<https://www.aqf.edu.au/>

End of Sprint Three