

SWEN90016

Software Processes & Assignment Project Fram Help Project Management

https://powcoder.com

Add WeChat powcoder Quality

Plan, Assurance, Control/ Monitor

2022 – Semester 1 Tutorial Week 9



- 1. Testing in Agile
- 2. Testing in formal checklists for your team

Assignment Project Exam Help



MELBOURNE Agile Quality Strategy

What is the role of QA in Agile?

- After development there is separate testing done by the Agile team ASSIGNMENT Project Exam Help a.
- As there is fast there is fast the street in the for testing
- Agile aims to adapt to the per quickly & minimize testing time
- Testing is always done during each sprint d.
- Must use Continuous Integration tools between development and e. testing automate testing

The User Story describes the requirement ... The Acceptance Criteria provides the definition ... of when that User Story is **done**.

Assignment Project Exam Help

Every new feature is tested during the sprint.

https://powcoder.com
Testers & developers work closely together. Testing is done by the whole team.

Every sprint has its own User Acceptance testing phase.

Sprint Review

A small piece of working software is delivered to the client at the end of the sprint.

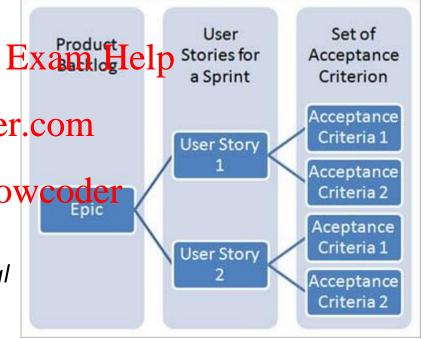
Client does User Acceptance test.

MELBOURNE Acceptance Criteria

User Story: As a Customer... I want to be able to split my payments... So I can pay using multiple debit cards.

Create Acceptance Criteria for these scenarios:

- User selects 'split agyngetingethe promeet Examilelp page
- User chooses different types of payment oder.com options
- User specifies the amount the want split to Add Wechat powcoder each option
- Automatically calculate the total amount paid by the split payments is the correct total payment



Create 3 Acceptance Criteria for this User Story

https://www.softwaretestinghelp.com/user-story-acceptance-criteria/

SWEN90009 & BDD advice: **Acceptance Criteria** use this text format: **Given**[condition], **When** [something happens], **Then** [result]

Examples:

- Given a User wants to noney the Pthoje lith the applitation on the payment page, then multiple payment card options are displayed.
- Given a User wants to split a payment, when they select multiple payment card options, then the selected cards allow an amount to be specified.

 Add WeChat powcoder
- Given a User wants to confirm a split payment, when they specify the amount for each card, then the payments page verify if total payment is correct amount
- Given a User wants to receipt a split payment, when the payments page processes each payment card successfully, then the user knows payment is done

https://www.softwaretestinghelp.com/user-story-acceptance-criteria/



MELBOURNE Acceptance Criteria

Another example

User story: As a user, I want to be able to recover the password to my account, so that I will be able to access my account in case I forgot the password.

Scenario: Forgot passwigthment Project Exam Help

Given: The user has navigated to the login page com When: The user selected forgot password option

And: Entered a valide wail to receive a link for password recovery

Then: The system sent the link to the entered email

Given: The user received the link via the email

When: The user navigated through the link received in the email

Then: The system enables the user to set a new password

https://www.softwaretestinghelp.com/user-story-acceptance-criteria/



Agile Quality – Dev Team process

Agile QA desk-audit hurdle:

Invite multi skilled audience to desk audit: a business analyst, another developasanglanteste Project Exam Help

Review the code at the developer's desk, before the code is allowed to be committed into the shared gitt repository GITHub.

Once the code is committed into GITHub, it's test suite is run immediately by the Continuous Integration tool

CI tool displays run code's pass/fail status



MELBOURNE Agile Quality Process

Sprint Review QA evaluation:

- Build small piece of working software with minimal features
- Assignment Project Exam Help Showcase the product chunk to the stakeholders early

- https://powcoder.com
 Fail fast and as cheaply as possible, & get timely feedback Add WeChat powcoder
- Capture the technical debt item in the Product Backlog, (optionally in FDD format: <action>, <result>)

FDD: Estimate (a verb) the final payment amount (an object)

The Product Owner sets the priority of the technical debt item

Write QA requirements as User Stories for the Product Backlog

As the Agile Scrum team:

a. We want Quality Assurance guidelines, so that our

Sprint has a strong Quality Management focus Assignment Project Exam Help

As a Quality Assurance **Design** team:

b. We want to create a QA checklist, so that key categories and attributes are assessed at defined times

As the System Administrator:

c. I want a password policy guideline, so that our application has helpful processes

I want a password policy checklist, so that our application is highly secure



Assignment Project Exam Help Formattps://powcoder.com Ch

Add WeChat powcoder



THE UNIVERSITY OF MELBOURNE Quality Plan: A checklist

Quality Attributes	Definition According to McCall et al.						
Correctness	The extent to which a program satisfies its specifications						
	and fulfils the user's mission objectives.						
Reliability	The extent to which a program can be expected to per-						
	form its intended function with required precision.						
Efficiency	The amount of computing resources and code required by						
Assignmen	14 Premie corperary ng lyte function.						
Integrity	The extent to which access to software or data by unau-						
1,44	thorised persons can be controlled.						
Usability nttps:/	thorised persons can be controlled. Provided Conferman, operate, prepare input, and						
	interpret output of a program.						
Maintainabil V	Vie Chart reprojecto theate and fix an error in an opera-						
1 2000	tional program.						
Testability	The effort required to test a program to ensure that it per-						
	forms its intended function.						
Flexibility	The effort required to modify an operational program.						
Portability	The effort required to transfer a program from hardware						
	and/or software environment to another.						
Reusability	The extent to which a program (or parts thereof) can be						
THE PERSON NAMED IN COLUMN 1	reused in other applications.						
Interoperability	The effort required to couple one system with another.						

A tool



MELBOURNE Another checklist

Checklist for software requirements specification artifact

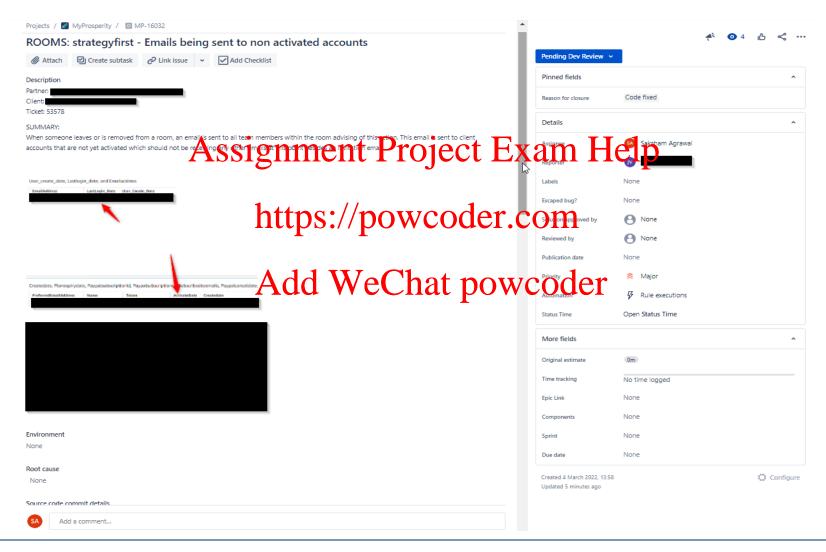
Organisation and Completeness □ Are all internal cross-references to other requirements correct? □ Are all requirements written at a consistent and appropriate level of detail? □ Do the requirements provide an adequate basis for design? ☐ Is the implementation priority of each requirement included? □ Are all external hardware, software, and communication interfaces defined? ☐ Have algorithms intrinsic to the functional requirements been defined? ASS19111900 ptilled to the state of the stat ☐ Is the expected behaviour documented for all anticipated error conditions? Correctness Is each requirement written in clear, concise, unambiguous language? □ Is each requirement verifiable by testing, demonstration, review, or analysis? is each requirement in scope for the project? Is any necessary information missing from a requirement? If so, is it identified as "to be decided"? □ Can all of the requirements be implemented within known constraints? □ Are any specified error messages unique and meaningful? Quality Attributes □ Are all performance objectives properly specified? □ Are all security and safety considerations properly specified? Are other pertinent quality attribute goals explicitly documented and quantified, with the acceptable tradeoffs specified? Traceability Is each requirement uniquely and correctly identified? Is each software functional requirement traceable to a higher-level requirement (e.g. system require-



A tool



Sample tool for controlling bug fixing, during PM maintenance phase





THE UNIVERSITY OF MELBOURNE Formal Testing sample

Sample Spreadsheet

Test feature ID	Feature title	Test/scenario ID.	Lest scenario title 4 Droise		Automation status	Ste	Expected Result	Test Data	External ID	Component
TS_HealthCheck_001 A client	A client chould be able to legin		Cient a toin su cessfu y fron es top				נט			
	A client should be able to login	TC_HealthCheck_00Z	Client can login successfully from API		Done		1			
ΓS_HealthCheck_002	A client should be able to logout	TC_HealthCheck_003	Client can logout successfully		Done					
ΓS_HealthCheck_003	A partner should be able to login	TC_HealthCheck_004	Phrtyancen logir sychesizith from deximor	der						
15 HealthUneck 004	A partner should be able to logout	TC_HealthCheck_006	Partner can logout successfully	GOT	Done					
		TC_HealthCheck_007	Partner can access the client list		Done					
		TC_HealthCheck_008	Partner can access the todos		Done					
		TC_HealthCheck_00	Farn F can act 45 th Goals 77	nov	WCOC	er				
		TC_HealthCheck_010	Partner can access the eSignature		Done					
		TC_HealthCheck_011	Partner can access the uploaded documents		Done					
		TC_HealthCheck_012	Partner can access the fact finds		Done					
		TC_HealthCheck_013	Partner can access the tax		Done					
		TC_HealthCheck_014	Partner can access the onboarding		Done					
		TC_HealthCheck_015	Partner can access the rooms		Done					
		TC_HealthCheck_016	Partner can access the opportunities		Done					
		TC HealthCheck 017	Partner can access the analytics		Done					

Quality process activities.

a. Design an appropriate formal quality checklist for the group assignment Assignment Project Exam Help

https://powcoder.com

Add WeChat powcoder

Describe the expected outcome of using this checklist?



Assignment Project Exam Help

