Course Description

This four-week course covers practical techniques to elicit and express software requirements from client interactions. Upon successful completion of this course, you will be able to:

Module 2

User Interaction

- List the types of users (primary, secondary, tertiary)

· List some issues that may arise with user interactions

Summarize how to properly interact with clients

· Summarize how to create a list of requirements

· List key questions to enable elicitation

Reading: Good Questions to Ask Your Client

- Summarize the concept of a use case

Deconstruct requirements from a wireframe

Peer Graded Assignment: Wireframes Assignment

· Deconstruct requirements from a storyboard

Module Assessment: Quiz 2 - Graded (8 questions)

Reading: Module 2: Supplemental Resources

· Summarize how a wireframe works

Summarize how a storyboard works

Summarize the key aspects of customer interactions

- List what goes into a use case description (name, actors,

goal, trigger, pre-condition, post-condition, basic flow, exceptions,

Lesson 3.2.1: Restaurant Scenario

· Summarize the concept user

· List types of human limitations

Discussions: Cultural Differences

Lesson 3.2.3(A): Involving Clients

Lesson 3.2.4: Use Cases

· Generate a use case

Lesson 3.2.5: Wireframes

Passing threshold - 80%

Lesson 3.2.6: Storyboards

Passing threshold - 70%

Discussions: Week 2

aualities)

Lesson 3.2.2(A, B): User Considerations

- Summarize the term stakeholder

- List the characteristics of users

- · Create clear requirements to drive effective software development
- · Visualize client needs using low-fidelity prototypes
- · Maximize the effectiveness of client interactions
- Adapt to changing product requirements

Module 1 Introduction to Requirements

Introduction: Specialization Preview

2 minutes

Introduction: Introduction to Client Needs & Client Needs 2 mins

Course Resources: Client Needs & Software Requirements - Course Notes & Glossary

Lesson 3.1.1(A): What is a Requirement/Requirement Activities 16 minutes

- · Summarize the concept of a software requirement
- Summarize the types of activities associated with requirements:
- Summarize the concept of elicitation
- Summarize the concept of requirements analysis
- Summarize the concept of requirements management
- Summarize the concept of requirements prioritization
- Summarize the concept of requirements expression

Lesson 3.1.2(A, B, C, D): Types of Requirements

- Differentiate between the different types of requirements
- Summarize the concept business requirement
- Summarize the concept business rule
- Summarize the concept user requirement
- Summarize the concept functional requirement
- Summarize the concept non-functional requirement
- Summarize the concept external interfaces
- Summarize the concept physical setting
- Summarize the concept developer constraints

Quiz: Module 1 Practice Quiz - Ungraded

(15 questions on types of requirements)

Passing threshold - 80%

Course weight 0%

Lesson 3.1.3: Controlling Scope

12 minutes

25 minutes

- Recognize that changes to software requirements are common and need to be accounted for
- Summarize the concept of vision
- Summarize the concept of scope
- Summarize the concept of managing expectations
- Summarize the concept of defending against scope creep and why it's important

Lesson 3.1.4: Requirements and Design

Discussions: Week 1

6 minutes

Differentiate between design and requirements

Reading: Module 1: Supplemental Resources

Module Assessment: Quiz 1 – Graded (8 questions)

Passing threshold - 70% Course weight 15%

assing threshold - 70% Course weight 15

SOFTWARE PRODUCT MANAGEMENT Specialization

Course 3: CLIENT NEEDS & SOFTWARE REQUIREMENTS

Development Team:

Ken Wong
Kari Rasmussen
Rus Hathaway
Bradley Poulette
Morgan Patzelt

Module 3 Writing Requirements

Lesson 3.3.1: Agile Requirements

1 minute

17 minutes

14 minutes

9 minutes

6 minutes

9 minutes

Course weight 5%

Course weight 10%

6 minutes

18 minutes

- · Recognize that requirements is an aspect of Agile
- · Recall the basic principles of Agile

Lesson 3.3.2(A, B): User Stories

- Generate a user story
- Summarize the concept of a user story
- Recognize what makes a good user story
- Recall the purpose of user stories
- · Deconstruct a user story
- Recognize when a user story is too large
- Analyze a user story

Peer Graded Assignment: **User Stories Assignment**

Passing threshold - 80%

Course weight 5%

Reading: User Stories Assignment Proposed Solution (Locked)

Lesson 3.3.3: Acceptance Tests

8 minutes

- Generate an acceptance test from user stories
 - Summarize the concept of an acceptance test
 - Recall the format of an acceptance test

Lesson 3.3.4(A): Product Backlog

12 minutes

- Generate a backlog
- Summarize the concept of a product backlog
- Identify priorities of user stories (by client)
- Recall how backlogs fit into Scrum iteration and release plans

Lesson 3.3.5: Story Maps

8 minutes

Course weight 10%

- · Assemble a story map
- Summarize the concept of a story map
- Recall the structure of a story map
- Recognize the application of a story map
- Recognize if a story map has missing aspects or inconsistencies
- Summarize benefits of story maps

Reading: Module 3: Supplemental Resources

Module Assessment: Quiz 3 - Graded (8 questions)

Passing threshold - 70%

Discussions: Week 3

Module 4 Quality Requirements

Lesson 3.4.1(A): Criteria for User Stories

11 minutes

23 minutes

- Summarize the criteria for user stories
- 14.1.1 Summarize the concept of correct
- 14.1.2 Summarize the concept of complete
- 14.1.3 Summarize the concept of consistent 14.1.4 Summarize the concept of clear
- 14.1.6 Summarize the concept of traceable
- 14.1.7 Summarize the concept of verifiable
- Recognize if user stories meet the criteria of feasible, manageable and simple

Reading: Ambiguous Requirements Study Guide

Lesson 3.4.2: Ambiguous Requirements

Determine if a user story is free of ambiguity

- 15.1.1 Summarize the concept of ambiguous requirements
- 15.1.2 Recognize if the requirement is detailed enough
- 15.1.3 Recognize ambiguous terms
- 15.1.4 Clarify ambiguous terms

Discussions: Ambiguous Requirements

Reading: Ambiguous Requirements Quiz Pre-Reading

Peer Graded Assignment: **Ambiguous Requirements Quiz**Passing threshold - 80%

Course weight 5%

Lesson 3.4.3: Course Summary

5 minutes

Summarize the concepts learned in the course

Reading: Module 4: Supplemental Resources

Module Assessment: **Quiz 4 – Graded** (8 questions)

Passing threshold - 70%

Course weight 10%

Course Assessment: Course Final Quiz – Graded (32 questions)

Passing threshold - 75%

Course weight 40%

Discussions: Week 4

NOTE: The lesson number refers to the course, module, and lesson. For example, lesson 1.2.3 refers to the first course, second module, third lesson.