



Use Cases That Get Used

Course Description

Packed with hands-on exercises, this industry-endorsed 1-day course provides the student with a solid foundation of the basic structure and techniques to write effective use cases with confidence. The course presents a holistic view of Use Case Modeling that consists of two main components: (1) Graphical view, represented by the Use Case Diagram, and (2) Textual view, represented by the Use Case Specification. The student learns how to apply a 3-step approach to Use Case Modeling. Within the documented, repeatable Requirements Management Process, the Requirements Producer (any individual who is responsible for eliciting, analyzing, representing, validating, and managing changes to the requirements) may utilize Use Case Modeling as another form of “Representing” requirements. “They [Use Cases] constitute only a fraction (perhaps a third) of all the requirements...,” says Allistair Cockburn in his book *Writing Effective Use Cases*, Addison-Wesley, 2001. The student will gain knowledge regarding when and when not to apply Use Cases for representing requirements. This course combines lecture, delivered by an expert practitioner, a playful and fun learning environment, small-group and individual practical exercises, and class discussions on real-life requirements problems and solutions.

Practical Techniques Presented

- User Role Analysis to identify any person or any thing that interacts with the system being developed.
- User Goal Analysis to identify the value each User Role gains from interacting with the system.
- Unified Modeling Language (UML) as an industry set of symbols used in modeling.
- Use Case Diagramming to graphically identify the User Roles of the system and their respective goals.
- Use Case Formatting to logically group and organize the requirements in a manner that is easy to read.
- User Scenario Analysis to identify all possible sequences of actions that illustrate the system behavior.
- Pre-condition and Post-condition Analysis to identify the Use Case success criteria.
- Use Case Pitfall Analysis is used to identify and correct problems with writing the Use Case.

Objectives

- Understand Use Case Modeling.
- Gain knowledge of industry best-practice techniques for representing requirements using Use Case Modeling (Use Case Diagram and Use Case Specification).
- Understand the 3-step approach to Use Case Modeling.
- Apply several learned techniques through hands-on exercises to give participants the confidence to use the techniques following their education experience.

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Duration

One Day (8 course hours). IIBA Endorsed Education Provider #010. Course #010.

Attendance Limit

Fifteen Students.

Course Fee

On-site Pricing: discount available, plus instructor travel expenses. Please call 608-850-6377 to discuss your specific training needs.

Public Pricing: \$750 (US) per student. We offer discount pricing when registering for two or more sessions, or when registering 4 or more for the same course. Please contact us by phone at 608-850-6377 or email inquire@requirementsquest.com for more information.

Materials Provided

Student Manual.

Student Exercise Workbook.

8" x 11" Use Case Modeling Quick Reference.

Use Case Examples.

Use Case Template.

Hands-On Exercises

- Identify when to apply use cases.
- Review example use cases.
- Identify and describe actors.
- Identify use cases.
- Draw a Use Case Diagram.
- Write Brief Descriptions.
- Write the Main Flow.
- Name Alternate and Exception Flows.
- Write Alternate Flows.
- Write Exception Flows.
- Write Pre-conditions & Post-conditions.
- Write "Purchase Snack" Use Case.

Intended Audiences

Business Analysts, System Analysts, Business Technologists, Technical Analysts, Requirements Analysts, Business Process Analysts, and Product Design Developers.

Prerequisite

The Quest for Excellent Requirements—Producer or Overview course is recommended.

Course Outline

1 hour Introduction to Use Case Modeling:

- Use Cases within the Requirements Management Process.
- What is Use Case Modeling?
- 3-Step Use Case Approach.
- Benefits of Use Cases.
- When are Use Cases effective?

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2 hours Step 1 - Use Case Diagram:

- What is an Actor?
- What are Primary and Supporting Actors?
- Describing the Actors.
- Pitfalls for Naming Actors.
- What are the Goals of each Actor?
- Naming the Use Case.
- Using Descriptive Action Verbs.
- Pitfalls when naming Use Cases.
- What is Unified Modeling Language (UML)?
- Use Case Diagramming Symbols.
- Pitfalls for Diagramming.

3 hours Step 2 - Outline the Use Case Specification:

- Eight Industry Use Case Formats.
- A Use Case Template.
- Writing a Use Case Brief Description.
- Use Case Flow of Events.
- A Scenario is a Use Case Instance.
- Writing the Main Flow.
- What are Alternate Flows?
- Schematic of Alternate Flows.
- Identifying Alternate Flows.
- What are Exception Flows?
- Schematic of Exception Flows.
- Identifying Exception Flows.
- "Size" Guidelines for a Use Case.
- Pitfalls for Outlining Use Cases.

2 hours Step 3 - Detail the Use Case Specification:

- Avoiding Design Language.
- Writing the Alternate Flows.
- Pitfalls for Detailing the Use Case.
- Writing the Exception Flows.
- What are Pre-conditions?
- What are Post-conditions?
- Completing the Representation Package.

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