

BUS 362

Assignment 04 - Use Cases

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Use Cases

Purpose

- Defines how the system carries out tasks
- Clarifies the information required for each step in each process
- No standard format, we're using the Drew format
- Does not always describe an IT process, can be used for physical systems too

Components

- Use case name
- ID Number
- Use case description
- Trigger (temporal or external)
- Inputs (including source)
- Outputs (including destination)
- Description of steps performed
- Information required for each step (this matches the major inputs and outputs)

Use Case Choices

- Think about how you interact with the system, what major goals do you have?
- Also think about system maintenance (to indentify temporal tasks)
- Drew makes his use cases clear in the case (don't model anything that isn't in the case)
- Think about individual tasks that can have undefined breaks in-between them

Overview Information

- **Name:** Verb phrase describing what is happening.
- **ID Number:** Order your use cases numerically.
- **Description:** Similar to the name, but includes the actor and a deeper description of the outcomes.
- **Trigger:** What is the trigger for the use case to start?
What happens directly before the action described in the name?
 - **Temporal:** Happens on a scheduled basis - the trigger is a specific time being reached.
 - **External:** An event triggers the use case. This is more common.

Inputs and Outputs

- List the information that you used for your steps
- Add the destination or source of that information
- If you are unsure where to store information required by the system, create a database for it
- This will make more sense next week
- Each input or output is a piece of information, you should be able to print it out and hold it in your hand
- No information should have the same name (in the entire system!)
- Bundle your information so that you can expand on it here
- Do this step last

Steps

- What is the system doing to push the task forward?
- One or two information flows associated with each step, no more than one input or output
- Don't model information requests, simply model the input of that information
- Don't model information transformation, simply model the output of that transformation (receipt generation, etc)
- Having subroutines and substeps is fine

Common Mistakes

- Missing use cases
- Arrow directions
- Not balancing the inputs and outputs with the steps section
- Missing major pieces of information
- Poor descriptions - not breaking down what each information flow includes
- Repetitive information flows

Textbook Pages

- 5th Edition: Chapter 4 - Use Case Analysis (pages 147-180)
- 6th Edition: Chapter 4 - Use Case Analysis (pages 120-152)

Example

Example

- Pigeon management system
- Customers can register for accounts on our website, submit pigeons for evaluation, and purchase available pigeons

Assignment

Instructions

- Prepare a set of use cases for Drew's Online Airways