

Tujuan : Menjelaskan Use Case

BAB 7

USE CASE

7.1 Analisa Use Case

Use case adalah metode berbasis teks untuk menggambarkan dan mendokumentasikan proses yang kompleks

Use case menambahkan detail untuk requirement yang telah dituliskan pada definisi sistem requirement.

Use case dikembangkan oleh sistem analis bersama-sama dengan user.

Pada tahapan selanjutnya berdasarkan use case ini analis menyusun model data dan model proses.

7.2 Peranan Use case

Semua kemungkinan tanggapan terhadap suatu kejadian didokumentasikan. Use case sangat berguna ketika situasi yang dianalisa sangat kompleks.

Sebuah use terdiri dari elemenelemen sebagai berikut:

- 1) Informasi Dasar
 - a) Nama, jumlah dan deskripsi singkat
 - b) Trigger-kejadian yang menyebabkan adanya use case
 - c) Eksternal trigger: trigger yang berasal dari luar sistem
 - d) Temporal Trigger: kejadian yang berbasis waktu
 - e) Sudut pandang use case harus konsisten

- 2) *Input-output* utama
 - a) Asal dan tujuan
 - b) Tujuan harus lengkap dan komprehensif

- 3) *Detail*
 - a) Harus ada detail dari langkah-langkah yang harus dilakukan berikut data masukan dan keluarannya.

ontoh sebuah use case:

Scenario Name: Patient makes, cancels, or changes an appointment		ID number: <u> 1 </u>	
Short description: This describes how we make a new appointment as well as changing or canceling an appointment			
Proses pengembangan Use Case			
Trigger: Patient calls and asks for an appointment or asks to cancel an existing appointment			
Type: (External) Temporal			
Major Inputs		Major Outputs	
<ol style="list-style-type: none"> 1) Identifikasi use case utama 2) Identifikasi setiap langkah dalam setiap use case 3) Identifikasi elemen-elemen dalam setiap langkah 4) Konfirmasikan use case 5) Ulangi langkah-langkah diatas secara iterative 			
Description	Source	Description	Destination
Patient name	Patient	Appointment	Appointment
Desired appointment	Patient	Appointment	Patient
Appointment to change/cancel	Patient	Possible appointments	Patient
Patient information	Patient's DB		

Langkah 1: Identifikasi use case utama

Aktifitas	Pertanyaan tipikal yang diajukan
Mulailah sebuah <i>form use case</i> dari setiap <i>use case</i> dan jika lebih dari 9 kelompokkan dalam paket-paket	Tanyakan <i>who, what</i> dan <i>where</i> tentang tugas dan <i>input/output</i> mereka: <ol style="list-style-type: none"> 1) Tugas utama apa yang dilakukan? 2) Trigger apa yang memicu tugas ini? 3) Informasi/form/laporan apa yang diperlukan untuk melakukan tugas ini? 4) Siapa yang memberi informasi/form/laporan ini? 5) Informasi apa yang dihasilkan dan pergi ke mana informasi tersebut?

Langkah 2: Identifikasi setiap langkah dalam setiap use case

Aktifitas	Pertanyaan tipikal yang diajukan
Untuk setiap <i>use case</i> , masukkan langkah-langkah utama untuk memproses input dan menghasilkan <i>output</i>	Menanyakan "how" tentang setiap use case: <ol style="list-style-type: none"> 1) Bagaimana anda memproduksi laporan? 2) Bagaimana informasi berubah pada laporan? <i>you process forms</i>? 3) Tool apa yang dilakukan pada langkah ini?

Langkah 3: Identifikasi elemen-elemen dalam setiap langkah

Aktifitas	Pertanyaan tipikal yang diajukan
Untuk setiap langkah, identifikasi setiap langkah, input dan outputnya	Tanyakan How tentang setiap langkah ini: <ol style="list-style-type: none"> 1) Bagaimana orang mengetahui kapan melakukan langkah ini? 2) Laporan/form apa yang dihasilkan dari langkah ini? 3) Laporan/form apa yang dibutuhkan langkah ini? 4) Apa yang terjadi jika laporan/form ini tidak ada?

Langkah 4: Konfirmasikan use case

Aktifitas	Pertanyaan tipikal yang diajukan

Untuk setiap langkah, validasi bahwa semuanya lengkap dan benar	Minta user untuk mengeksekusi proses-proses yang tertulis dalam <i>use case</i> .
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Berikut ini contoh use case yang diterapkan pada proses pemilihan CD pada sebuah rental CD:

Hasil langkah 1:

Use case name: Take requests for CDs ID number: <u>1</u>																					
Short description: This describes how customers can search the Web site and place requests to hold CD's in stock or place special orders																					
Trigger: Customer searches Web and places request to hold a CD or to special order it																					
Type: <u>External</u> Temporal																					
Major Inputs: Description	Major Outputs: Description																				
<table border="1"> <thead> <tr> <th>Description</th> <th>Source</th> <th>Description</th> <th>Destination</th> </tr> </thead> <tbody> <tr> <td>Search request</td> <td>Customer</td> <td>Special order</td> <td>Special order DBs</td> </tr> <tr> <td>CDs selected for request</td> <td>Customer</td> <td>Hold for in-stock CD</td> <td>In-store hold DB</td> </tr> <tr> <td>Customer information</td> <td>Customer</td> <td></td> <td></td> </tr> <tr> <td>Marketing materials</td> <td>Marketing DB</td> <td></td> <td></td> </tr> </tbody> </table>	Description	Source	Description	Destination	Search request	Customer	Special order	Special order DBs	CDs selected for request	Customer	Hold for in-stock CD	In-store hold DB	Customer information	Customer			Marketing materials	Marketing DB			
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Search request	Customer	Special order	Special order DBs																		
CDs selected for request	Customer	Hold for in-stock CD	In-store hold DB																		
Customer information	Customer																				
Marketing materials	Marketing DB																				
Use case name: Maintain marketing materials ID number: <u>2</u>																					
Short description: This adds, deletes, and modifies the additional marketing material from vendors (e.g. reviews, musics clips)																					
Trigger: Materials from vendors, distributors, wholesalers, record companies, and articles in trade magazines																					
Type: <u>External</u> Temporal																					
Major Inputs: Description	Major Outputs: Description																				
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Use case name: Process in-store holds ID number: <u>3</u>																					
Short description: This alerts the store staff to pull a requested CD from the shelves the special order section																					
Trigger: Hold request from take request use case																					
Type: <u>External</u> Temporal																					
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Hold request	Take request use case	Hold label	Store staff																		
Major Steps Performed																					
Information for Steps																					

Hasil Langkah 2 :

Use case name: Take requests for CDs		ID number: <u> 1 </u>	
Short description: place special orders.		This describes how customers can search the Web site and place requests to hold CDs in stock or	
Trigger: Customer searches Web and places requests to hold a CD or to special order it			
Type: <u>External</u> Temporal			
Major Inputs		Major Outputs	
Description	Source	Description	Destination
<u>Search request</u>	<u>Customer</u>	<u>Special order</u>	<u>Special order DB</u>
<u>CDs selected to request</u>	<u>Customer</u>	<u>Hold for CDs in stock</u>	<u>Hold DB</u>
<u>Customer information</u>	<u>Customer</u>		
<u>Marketing materials</u>	<u>Marketing DB</u>		
Major Steps Performed		Information for Steps	
<ol style="list-style-type: none"> 1. Find CDs matching customer's request, whether it is a search by author, title, etc., a search by category (e.g., jazz, classical), or a request for "sale" items. 2. Provide information about one CD. This starts with some basic information but may also include extra marketing material such as reviews and music clips. 3. Find stores close to the customer and display the availability of the CD in those stores' inventory. 4. Customer selects the CD at a store to hold or special order. 5. Customer "checks out " confirming the CDs the user has selected, calculating the total amount, and accepting user's name and contact information. 6. Place hold(s) for CD(s) in stock. 7 Place special order for CDs not in stock. 			

Hasil langkah 3:

Use case name: Take requests for CDs		ID number: <u> 1 </u>	
Short description: place special orders		This describes how customers can search the Web site and place requests to hold CDs in stock or	
Trigger: Customer searches Web and places request to hold a CD or to special order it			
Type: <u>External</u> Temporal			

Hasil langkah 4

Use case name: Take requests for CDs		ID number: <u>1</u>	
Short description: This describes how customers can search the Web site and place requests to hold CDs in stock or place special orders			
Trigger: Customer searches Web and places request to hold a CD or to special order it			
Type: <u>External</u> Temporal			
Major Inputs:		Major Outputs:	
Description	Source	Description	Destination
Search request	Customer	Special Order	Special order DBs
CDs selected for request	Customer	Hold for in-stock CD	In-store hold DB
Customer information	Customer	CDs matching search request	Customer
Marketing materials	Marketing DB	CDs requested	Customer
CD information request	Customer	CD information	Customer
CD inventory	Inventory DB	Marketing materials	Customer

Major Steps: Use case name: Maintain marketing materials		ID number: <u>2</u>	
Short description: This adds, deletes, and modifies the additional marketing material from vendors (e.g. reviews, musics clips)			
Trigger: Materials from vendors, distributors, wholesalers, record companies, and articles in trade magazines			
Type: <u>External</u> Temporal			
Major Inputs:		Major Outputs:	
Description	Source	Description	Destination
Marketing materials	Vendor	Marketing materials	Marketing DB
Marketing materials	Marketing manager	Marketing material report	Marketing manager
CD information	CD DB		
Vendor information	Vendor		

use case name: Process in-store holds		ID number: <u>3</u>	
Short description: This alerts the store staff to pull a request CD from the shelves and place it in the special order section			
Trigger: Hold request from take request use case			
Type: <u>External</u> Temporal			
Major Inputs:		Major Outputs:	
Description	Source	Description	Destination
Hold request	In-store hold DB	Hold Label	In-store staff
Hold confirmation	In-store staff	Hold request alert	In-store staff
		Hold confirmation	In-store hold DB
		Inventory adjustment	Inventory DB

