

# **Software Engineering**

## **Test Case Template and Examples**

## Test Case Template (Doc:T\_01)

<b>Test Case #:</b>	<b>Test Case Name:</b>	<b>Page: 1 of ..</b>
<b>System:</b>	<b>Subsystem:</b>	
<b>Designed by:</b>	<b>Design Date:</b>	
<b>Executed by:</b>	<b>Execution Date:</b>	
<b>Short Description:</b>		

### Pre-conditions

Step	Action	Expected System Response	Pass/ Fail	Comment
1				
2				

### Post-conditions

## Test Case Example1 (simple test)

**Test Case #:** 2.2

**Test Case Name:** Change PIN

**Page:** 1 of 1

**System:** ATM

**Subsystem:** PIN

**Designed by:** ABC

**Design Date:** 28/11/2004

**Executed by:**

**Execution Date:**

**Short Description:** Test the ATM Change PIN service

### Pre-conditions

The user has a valid ATM card - The user has accessed the ATM by placing his ATM card in the machine

The current PIN is 1234

The system displays the main menu

Step	Action	Expected System Response	Pass/ Fail	Comment
1	Click the 'Change PIN' button	The system displays a message asking the user to enter the new PIN		
2	Enter '5555'	The system displays a message asking the user to confirm (re-enter) the new PIN		
3	Re-enter '5555'	The system displays a message of successful operation The system asks the user if he wants to perform other operations		
4	Click 'YES' button	The system displays the main menu		
5	<b>Check post-condition 1</b>			

### Post-conditions

1. The new PIN '5555' is saved in the database

## Test Case Example2 (complex test may be divided into more than test cases)

<b>Test Case #:</b> 2.3	<b>Test Case Name:</b> Change PIN	<b>Page:</b> 1 of 1
<b>System:</b> ATM	<b>Subsystem:</b> PIN	
<b>Designed by:</b> ABC	<b>Design Date:</b> 28/11/2004	
<b>Executed by:</b>	<b>Execution Date:</b>	
<b>Short Description:</b> Test the ATM Change PIN service		

### Pre-conditions

The user has a valid ATM card - The user has accessed the ATM by placing his ATM card in the machine  
 The current PIN is 1234  
 The system displays the main menu

Step	Action	Expected System Response	Pass/ Fail	Comment
1	Click the 'Change PIN' button	The system displays a message asking the user to enter the new PIN		
2	Enter '5555'	The system displays a message asking the user to confirm (re-enter) the new PIN		
3	Re-enter '5555'	The system displays a message of successful operation The system asks the user if he wants to perform other operations		
4	Click 'YES' button	The system displays the main menu		
5	<b>Check post-condition 1</b>			
6	Repeat steps 1,2,3 using another PIN say '6666' and click 'NO' button	The system is exited and displays a greeting message asking the user to place his ATM card in the machine		
7	<b>Check post-condition 2</b>			
8	Repeat steps 1,2, using another PIN say '7777'	The system displays a message asking the user to confirm (re-enter) the new PIN		
9	Enter a wrong confirmation (say '9876')	The system displays a message of <b>unsuccessful</b> operation and asks the user to confirm the correct PIN		
10	Re-enter '7777'	The system displays a message of successful operation The system asks the user if he wants to perform other operations		

	Click 'NO' button	The system is exited and displays a greeting message		
	<b>Check post-condition 3</b>			

**Post-conditions**

1. The new PIN '5555' is saved in the database
2. The new PIN '6666' is saved in the database
3. The new PIN '7777' is saved in the database

Test happy path

Test also failure condition (step 9)