



Instituto Nacional de Ciência
e Tecnologia para Engenharia
de Software

Rede de Laboratórios de Produtividade de Software

Consistency Manager, Filtros, Preference e Integração com o TestLink

Programa de Capacitação
em Testes de Software



Instituto Nacional de Ciência
e Tecnologia para Engenharia
de Software



Consistency Management - CM

- Contexto
 - Modificações no documento de casos de uso após a geração de uma suite de testes
- Problema
 - Suites com testes iguais e ids diferentes

Consistency Management - CM

NewProject - TaRGeT

File Artifacts Project Tools Help

Use Cases

On The Fly Generation Editor

Test Cases Viewer

Common Test Cases (10) All Test Cases

New Test Cases (0) Load Former Filter Selection

Removed Test Cases (0) Save Current Filter Selection

Generated Test Cases

Id	Description	Requirements	UseCases
11111_MM_Fun...	None.	TRS_11111_101	11111#UC_01
11111_MM_Fun...	None.	TRS_111166_102, TRS_11111_101	11111#UC_01
11111_MM_Fun...	None.	TRS_111166_102	11111#UC_01
11111_MM_Fun...	None.	TRS_111166_102, TRS_111166_103	11111#UC_01
11111_MM_Fun...	None.	None.	11111#UC_01
11111_MM_Fun...	None.	TRS_111166_103	11111#UC_01
11111_MM_Fun...	None.	None.	11111#UC_01
11111_MM_Fun...	None.	TRS_11111_104	11111#UC_02
11111_MM_Fun...	None.	TRS_11111_104, TRS_111166_105	11111#UC_02
11111_MM_Fun...	None.	TRS_11111_106	11111#UC_02

Save Test Suite Start Consistency Management before saving.

Selected Test Case

Case	Reg. Level	Exe. Type	Case Description	Procedure	Expected results
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Selection Test Cases Traceability Matrix Inclusion/Exclusion

Artifacts Errors Search Results CNL Advisor

Features Test Cases

Consistency Management - CM

The screenshot displays the TaRGeT software interface. The main window is titled "NewProject - TaRGeT" and contains several panes. The "Test Cases Viewer" pane is active, showing a list of test cases with columns for "Id" and "Description". A "Consistency Management" dialog box is overlaid on top, titled "Available Test Suites" and containing a list of test suites to compare. The dialog box also includes "Finish" and "Cancel" buttons. The "Test Cases Viewer" pane has a "Generated Test Cases" section with a table of test cases and a "Selected Test Case" section with a table of test case details. The "Test Cases Viewer" pane also has a "Save Test Suite" button and a "Start Consistency" checkbox. The "Test Cases Viewer" pane has a "Use Cases" table with columns for "Id" and "Description". The "Test Cases Viewer" pane has a "Selected Test Case" table with columns for "Case", "Reg. Level", "Exe. Type", "Case Description", "Procedure", and "Expected results". The "Test Cases Viewer" pane has a "Selection" tab and a "Traceability Matrix" tab. The "Test Cases Viewer" pane has a "Test Cases" section with a table of test cases. The "Test Cases Viewer" pane has a "Test Cases" section with a table of test cases. The "Test Cases Viewer" pane has a "Test Cases" section with a table of test cases.

Consistency Management Dialog - Available Test Suites

Test Suite
NewTestSuite0001.xml
Test_Link_Requirements.xml

Test Cases Viewer - Generated Test Cases

Id	Description
11111_MM_Fun...	None.
11111_MM_Fun...	None.
11111_MM_Fun...	None.
11111_MM_Fun...	None.
11111_MM_Fun...	None.
11111_MM_Fun...	None.
11111_MM_Fun...	None.
11111_MM_Fun...	None.
11111_MM_Fun...	None.
11111_MM_Fun...	None.
11111_MM_Fun...	None.
11111_MM_Fun...	None.
11111_MM_Fun...	None.
11111_MM_Fun...	None.
11111_MM_Fun...	None.
11111_MM_Fun...	None.

Test Cases Viewer - Use Cases

Use Cases
11111#UC_01
11111#UC_01
11111#UC_01
11111#UC_01
11111#UC_01
11111#UC_01
11111#UC_01
11111#UC_01
11111#UC_01
11111#UC_02
11111#UC_02
11111#UC_02

Test Cases Viewer - Selected Test Case

Case	Reg. Level	Exe. Type	Case Description	Procedure	Expected results

Consistency Management - CM

NewProject - TaRGeT

File Artifacts Project Tools Help

Use Cases On The Fly Generation Editor Consistency Management Editor

Test Comparison

Comparison Results

New Test Cases

ID
Test Case 0001
Test Case 0002
Test Case 0003
Test Case 0004
Test Case 0005
Test Case 0006
Test Case 0007
Test Case 0008
Test Case 0009
Test Case 0010

Old Test Cases from **NewTestSuite0001.x**

ID	Similarity

Legend

- New/Modified Test Case (probably)
- Extra step
- Different field

Preferences

Next new ID:

Automatic Association

First most similar: > %

Second most similar: < %

Compare Test Cases

Comparison

Artifacts Errors Search Results CNL Advisor

- Features
 - My_Phonebook.xml
- Test Cases
 - NewTestSuite0001.xml
 - Test_Link_Requirements.xml

Consistency Management - CM

NewProject - TaRGeT

File Artifacts Project Tools Help

On The Fly Generation Editor Consistency Management Editor

Test Comparison

Comparison Results

New Test Cases

ID	Similarity
Test Case 0001	
Test Case 0002	
Test Case 0003	
Test Case 0004	
Test Case 0005	
Test Case 0006	
Test Case 0007	
Test Case 0008	
Test Case 0009	
Test Case 0010	

Old Test Cases from NewTestSuite0001.x Change

ID	Similarity
<input checked="" type="checkbox"/> New ID	
<input type="checkbox"/> Delete	
<input type="checkbox"/> 11111_MM_Func_006	83.34%
<input type="checkbox"/> 11111_MM_Func_001	76.0%
<input type="checkbox"/> 11111_MM_Func_005	67.54%
<input type="checkbox"/> 11111_MM_Func_002	55.01%
<input type="checkbox"/> 11111_MM_Func_003	49.29%
<input type="checkbox"/> 11111_MM_Func_007	44.54%
<input type="checkbox"/> 11111_MM_Func_004	40.84%

Save Test Suite

Legend

- New/Modified Test Case (probably)
- Extra step
- Different field

Preferences

Next new ID: Change

Automatic Association

First most similar: > %

Second most similar: < %

Refresh

Consistency Management - CM

NewProject - TaRGeT

File Artifacts Project Tools Help

On The Fly Generation Editor Consistency Management Editor

New Test Case

Case	Reg. Level	Exe. Type	Case Description	Procedure	Expected Results
Test Case 0001	na	Man	None.	None.	
			Use Cases:	11111#UC_01	
			Requirements:	TRS_11111_101	
			Setup:	None.	
			Initial Conditions:	1) My Phonebook application is installed in the phone. 2) There is enough phone memory to insert a new contact. 3) Nenhuma	
			Notes:	Test case auto-generated by TaRGeT system.	
			Test Procedure (Step Number):		
			1	Start My Phonebook application.	My Phonebook application menu is displayed.
			2	Select the New Contact option.	The New Contact form is displayed.
			3	Type the contact name and the phone number.	The new contact form is filled.
			4	Confirm the contact creation.	A new contact is created in My Phonebook application.
			5	Novo passo	luulululul
			Final Conditions:	None.	
			Cleanup:	None.	

Old Test Case

Case	Reg. Level	Exe. Type	Case Description	Procedure	Expected Results
11111_MM_Func_006	na	Man	None.	None.	
			Use Cases:	11111#UC_01	
			Requirements:	TRS_111166_103	
			Setup:	None.	
			Initial Conditions:	1) My Phonebook application is installed in the phone. 2) There is no enough phone memory.	
			Notes:	Test case auto-generated by TaRGeT system.	
			Test Procedure (Step Number):		
			1	Start My Phonebook application.	My Phonebook application menu is displayed.
			2	Select the New Contact option.	The New Contact form is displayed.
			3	Type the contact name and the phone number.	The new contact form is filled.
			4	Confirm the contact creation.	A dialog is displayed informing that there is no enough memory.
			5	Select OK softkey.	The phone goes back to My Phonebook application menu.
			Final Conditions:	None.	
			Cleanup:	None.	

Comparison

Consistency Management - CM

Preferences

Next new ID:

Automatic Association

First most similar: >
 %

Second most similar: <
 %

Demonstração

Filtros

- Requirements
- Use Cases
- Test Purpose
- Path Coverage

Requirements

On The Fly Generation Editor

Requirements and Use Cases Selection

Select the requirements and use cases you want to cover

Select the input requirements:

Requirement Code	
<input checked="" type="checkbox"/> TRS_11111_101	
<input type="checkbox"/> TRS_11111_104	
<input checked="" type="checkbox"/> TRS_11111_106	
<input type="checkbox"/> TRS_111166_102	
<input type="checkbox"/> TRS_111166_103	
<input type="checkbox"/> TRS_111166_105	

Select all Deselect all

Use Cases

On The Fly Generation Editor

Available Use Cases

- 11111 - My Phonebook
 - UC_01 - Creating a New Contact
 - UC_02 - Searching a Contact

Add Use Case

Remove Use Case

Selected Use Cases

11111#UC_02 - Searching a Contact	
11111#UC_01 - Creating a New Contact	

Test Purpose and Path Coverage

The screenshot displays the 'On The Fly Generation Editor' window, which is used for creating test purposes. The interface is divided into several sections:

- Test Purpose Creation:** This section is titled 'Create your test purposes'. It contains a 'Steps' list on the left, a 'Current Test Purpose' list on the right, and a 'Created Test Purposes' list at the bottom left.
- Steps:** A list of test steps is shown, including '1M - Start My Phonebook app', '2A - Fill some of the extende', '2D - Select OK softkey.', and '2M - Select the New Contact'. A 'Select' button is positioned to the right of this list.
- Current Test Purpose:** A list of test purposes is shown, including '11111#UC_01#1A', '11111#UC_01#2A', and '11111#UC_01#2D'. To the right of this list are buttons for 'up', 'down', 'OK', and 'Clean'.
- Created Test Purposes:** A list of created test purposes is shown, including '*; 11111#UC_01#1A' and '*; 11111#UC_01#1B; 11111#UC_'. To the right of this list are buttons for 'Clean' and 'Clean all'.
- Path Coverage:** A slider control is shown with the text 'Path Coverage: 75%' next to it.

At the bottom of the window, there is a navigation bar with tabs for 'Selection', 'Test Cases', 'Traceability Matrix', and 'Inclusion/Exclusion'.

Demonstração

Preferences

Test Case Preferences

Test Case ID: <tc_featureid>_MM_Func_<tc_id>

Test Case Initial ID: 1

Empty Field: None.

Objective Prefix: OBJECTIVE_PREFIX:

Print Use Case Description: None

Print Flow Description: Last
All
None

Keep Requirements

OK Cancel

Test Case Preferences

Test Case ID: <tc_featureid>_MM_Func_<tc_id>

Test Case Initial ID: 1

Empty Field: None.

Objective Prefix: OBJECTIVE_PREFIX:

Print Use Case Description: None

Print Flow Description: None

Keep Requirements

OK Cancel

Preferences

Test Case ID: 11111_MM_Func_001

Regression Level: na

Execution Type: Man

Description: It describes the creation of a new contact in the contact list.

Objective: OBJECTIVE_PREFIX: Create a new contact

Use Case References: 11111#UC_01

Requirements: TRS_11111_101

Setups: None.

Initial Conditions: 1) My Phonebook application is installed in the phone. 2) There is enough phone memory to insert a new contact.

Steps	Expected Results
1) Start My Phonebook application.	My Phonebook application menu is displayed.
2) Select the New Contact option.	The New Contact form is displayed.
3) Type the contact name and the phone number.	The new contact form is filled.
4) Confirm the contact creation.	A new contact is created in My Phonebook application.

Final Conditions: None.

Cleanup: None.

Notes: Under Development

Last Use Case Description

Preferences

Test Case ID: 11111_MM_Func_001

Regression Level: na

Execution Type: Man

Description: It describes the creation of a new contact in the contact list.

Objective: OBJECTIVE_PREFIX: Create a new contact

Last Flow Description

Use Case References: 11111#UC_01

Requirements: TRS_11111_101

Setups: None.

Initial Conditions: 1) My Phonebook application is installed in the phone. 2) There is enough phone memory to insert a new contact.

Steps	Expected Results
1) Start My Phonebook application.	My Phonebook application menu is displayed.
2) Select the New Contact option.	The New Contact form is displayed.
3) Type the contact name and the phone number.	The new contact form is filled.
4) Confirm the contact creation.	A new contact is created in My Phonebook application.

Final Conditions: None.

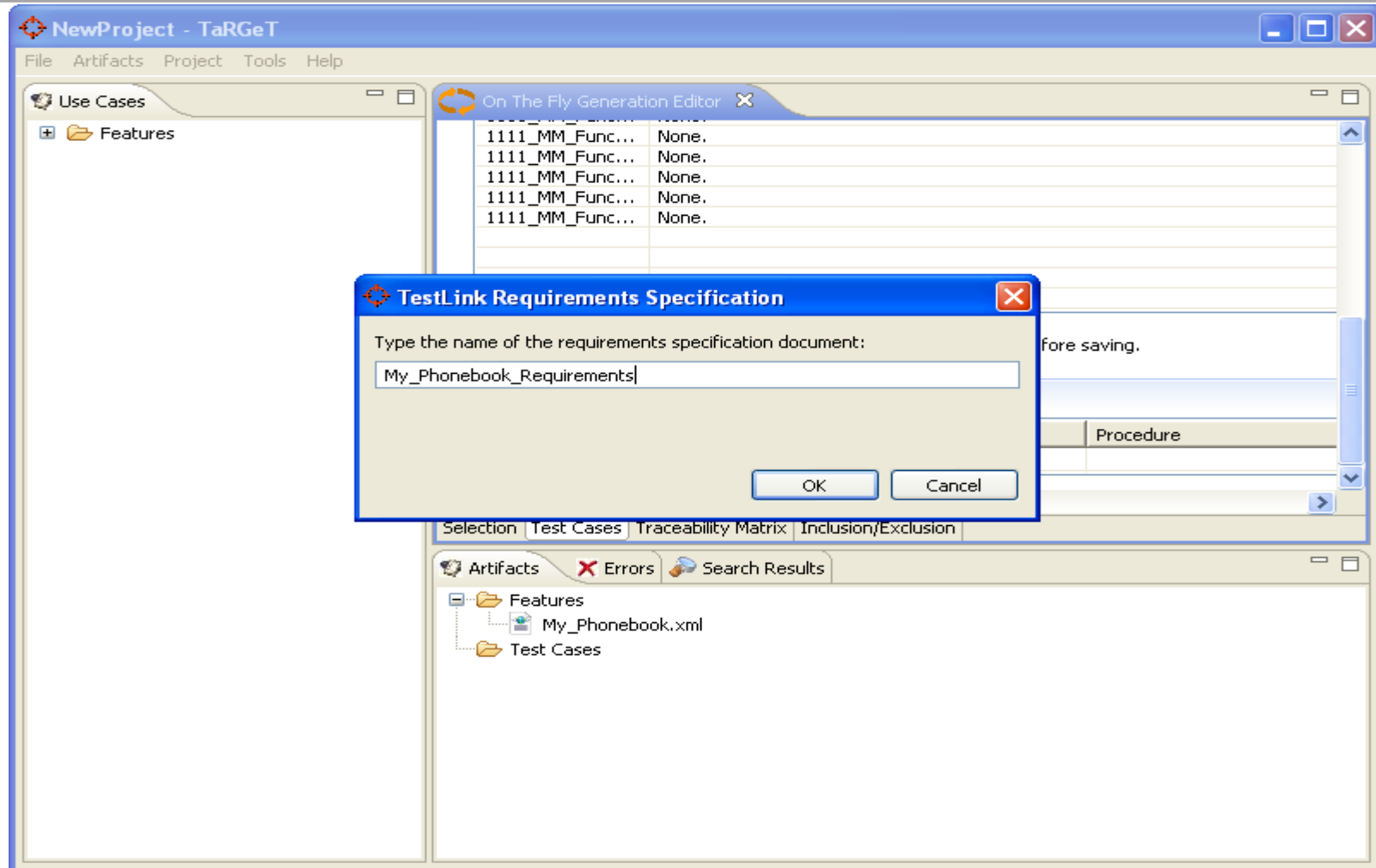
Cleanup: None.

Notes: Under Development

Integração com TestLink

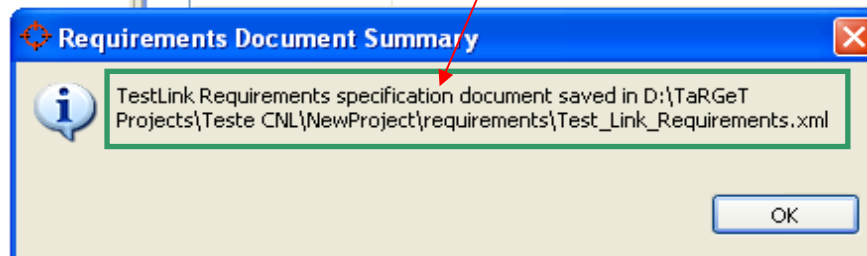
- Problema
 - Requisitos exibidos dentro do caso de teste
 - Campo de requisitos do TestLink ocioso
- Solução
 - Gerar documento de requisitos na TaRGeT e importar para o TestLink

Integração com TestLink



Integração com TestLink

Especificação de Requisitos salva na pasta **requirements** dentro da pasta do projeto



saving.

Procedure

Selection Test Cases Traceability Matrix Inclusion/Exclusion

Artifacts Errors Search Results

Features
My_Phonebook.xml
Test Cases
NewTestSuite0001.xml

Integração com TestLink

TestLink 1.8.3 - Mozilla Firefox

Arquivo Editar Exibir Histórico Favoritos Ferramentas Ajuda

http://172.27.9.69/testlink/index.php

Mais visitados Primeiros passos Últimas notícias ERRO: A URL solicitad...

TestLink 1.8.3 : admin [admin]

Home | Specification | Users | Events | Test Case ID: ResearchTeam-3409:4185_MM_Func_001: None.... | <documentation>

Test Project: MotoProject

Personal | Logout

Navigator - Test Specification

Filter by Settings...

Test Suite: [dropdown]

Update tree after every operation:

Update tree

- MotoProject (115)
 - NewTestSuite002.xml(115)
 - ResearchTeam-3409:4185_MM_Func_001: None....
 - ResearchTeam-3410:4185_MM_Func_002: None....
 - ResearchTeam-3411:4185_MM_Func_003: None....
 - ResearchTeam-3412:4185_MM_Func_004: None....
 - ResearchTeam-3413:4185_MM_Func_005: None....
 - ResearchTeam-3414:4185_MM_Func_006: None....
 - ResearchTeam-3415:4185_MM_Func_007: None....
 - ResearchTeam-3416:4185_MM_Func_008: None....
 - ResearchTeam-3417:4185_MM_Func_009: None....
 - ResearchTeam-3418:4185_MM_Func_010: None....
 - ResearchTeam-3419:4185_MM_Func_011: None....
 - ResearchTeam-3420:4185_MM_Func_012: None....
 - ResearchTeam-3421:4185_MM_Func_013: None....
 - ResearchTeam-3422:4185_MM_Func_014: None....
 - ResearchTeam-3423:4185_MM_Func_015: None....
 - ResearchTeam-3424:4185_MM_Func_016: None....
 - ResearchTeam-3425:4185_MM_Func_017: None....
 - ResearchTeam-3426:4185_MM_Func_018: None....
 - ResearchTeam-3427:4185_MM_Func_019: None....
 - ResearchTeam-3428:4185_MM_Func_020: None....

Test Case

ResearchTeam-3409:4185_MM_Func_001: None....

Edit Delete Move / Copy Create a new version Deactivate this version Add to Test Plans Export

Version 1
Created on 20/01/2010 15:54:00 by admin

Summary

Test Case ID: 4185_MM_Func_001
Regression Level: na
Execution Type: Man
Description: None.
Objective: None.

Use Case References: 4185RUC_01
Requirements: ER_TARGET_0025, FR_TARGET_0220, ER_TARGET_0020, FR_TARGET_0225
Setup: None.
Initial Conditions: 1) The .NET and Java runtime environment are installed in the machine (see requirements for further information about Java and .NET versions) [ER_TARGET_0020, ER_TARGET_0025]
Note: Test case auto-generated by TarGeT system.
Final Conditions: None.
Cleanup: None.

Steps	Expected Results
1 Start the TarGeT.	1 A splash screen is displayed. Verify the requirements document to check the splash screen.
2 Wait some seconds.	2 The TarGeT is started. No TarGeT project is opened. A background image is displayed (see requirements document for more details).

Execution type: Manual
Test importance: Medium
Keywords: None

Requirements: [TarGeT_Requirements] ER_TARGET_0020:REQ - ER_TARGET_0020, Feature 4185
[TarGeT_Requirements] ER_TARGET_0025:REQ - ER_TARGET_0025, Feature 4185
[TarGeT_Requirements] FR_TARGET_0220:REQ - FR_TARGET_0220, Feature 4185
[TarGeT_Requirements] FR_TARGET_0225:REQ - FR_TARGET_0225, Feature 4185

Attached files:

Concluído

Exercício

Exercitar no projeto FLIP todas as funcionalidades aprendidas no treinamento de hoje.

Resumo

- Contexto – TaRGeT
- Problema – Gerenciamento de consistência, objetivos e descrição dos testes, redução da suíte de testes e utilização dos requisitos no testLink.
- Solução – Consistency Management, Filtros, Configuração do Preferences e Importação de requisitos para o TestLink.
- Avaliação da Solução – A utilização da TaRGeT aparece como uma solução rápida e prática para todos os problemas citados acima.

Sites

Wiki do LabPS

<http://twiki.cin.ufpe.br/twiki/bin/view/LabPS/WebHome>

Twitter do LabPS

http://twitter.com/Rede_LabPS

INES

<http://www.ines.org.br>

Amigos

<http://amigos.ines.org.br>

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Dúvidas





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