Use Case Details

Analyse

Version 1.0 • Proposed



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Analyse

Package in package 'Model'

Analyse Version 1.0 Phase 1.0 Proposed françois created on 9/4/2018. Last modified 9/4/2018

Cas d'utilisation

Package in package 'Analyse'

Cas d'utilisation Version 1.0 Phase 1.0 Proposed françois created on 9/4/2018. Last modified 9/4/2018

Diagramme de contexte diagram

Use Case diagram in package 'Cas d'utilisation'

Diagramme de contexte Version 1.0 françois created on 9/4/2018. Last modified 9/27/2020

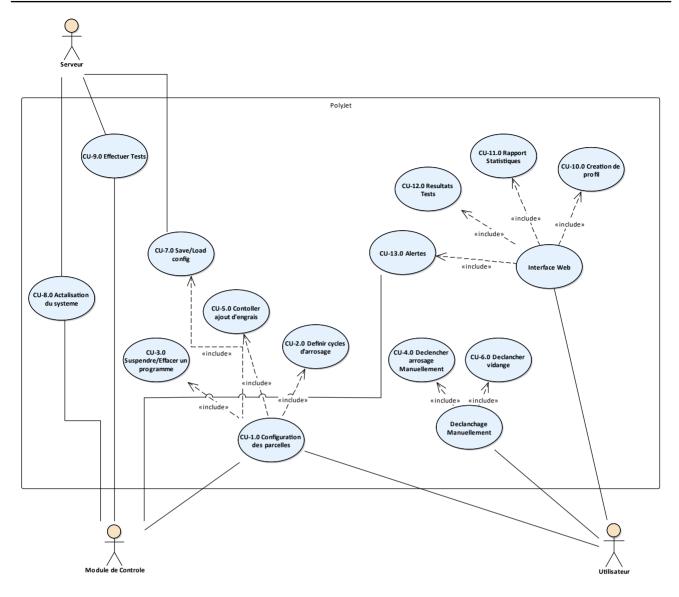


Figure 1: Diagramme de contexte

Actors

Package in package 'Cas d'utilisation'

Contains Actors that represent the roles that users play with respect to the system.

Actors
Version 1.0 Phase 1.0 Proposed francois created on 9/4/2018. Last modified 9/4/2018

Use Cases

Package in package 'Cas d'utilisation'

Contains Use Case that represent the value or goal that the Actors wish to achieve.

Use Cases
Version 1.0 Phase 1.0 Proposed
francois created on 9/4/2018. Last modified 9/4/2018

CU-1.0 Configuration des parcelles

UseCase in package 'Use Cases'

Permet de configurer les cycles d'arrosage des differantes parcelles du jardin

CU-1.0 Configuration des parcelles Version 1.0 Phase 1.0 Proposed françois created on 9/4/2018. Last modified 9/28/2020

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Functional. L'utilisateur possede un profil sur le serveur

L'utilisateur doit posseder un profil afin que sa configuration de son systeme puisse etre sauvegarder sur le serveur.

[Proposed, Medium difficulty.]

CONNECTORS

✓ Include «include» Source → Destination

From: CU-1.0 Configuration des parcelles : UseCase, Public To: CU-2.0 Definir cycles d'arrosage : UseCase, Public

✓ Include «include» Source → Destination

From: CU-1.0 Configuration des parcelles : UseCase, Public To: CU-3.0 Suspendre/Effacer un programme : UseCase, Public

Include «include» Source -> Destination

From: CU-1.0 Configuration des parcelles : UseCase, Public To: CU-5.0 Contoller ajout d'engrais : UseCase, Public

Include «include» Source -> Destination

From: CU-1.0 Configuration des parcelles : UseCase, Public

To: CU-7.0 Save/Load config : UseCase, Public

✓ UseCaseLink Source -> Destination From: Module de Controle : Actor, Public

To: CU-1.0 Configuration des parcelles : UseCase, Public

✓ UseCaseLink Source -> Destination

From: Utilisateur: Actor, Public

To: CU-1.0 Configuration des parcelles : UseCase, Public

SCENARIOS

🛱 Basic Path. Basic Path

1. Definir les parcelles: longueur totale de la

tuyauterie, nombre et le type des dispositfs d'arrosage.

Uses:

Utilisateur

2. Controler les systemes d'arrosage: module de controle decide quand activer/desactiver les systemes d'arrosage.

Uses

Module de Controle

3. La configuration est sauvegarde

Uses:

Serveur et Module de controle

Alternate: 3a. Connexion echoue

Alternate. Connexion echoue

1. La connexion echoue: retourne erreur

Uses: Serveur

CU-1.0 Config diagram

Use Case diagram in package 'Use Cases'

CU-1.0 Config Version 1.0

Maximiliano Falicoff created on 9/14/2020. Last modified 9/28/2020

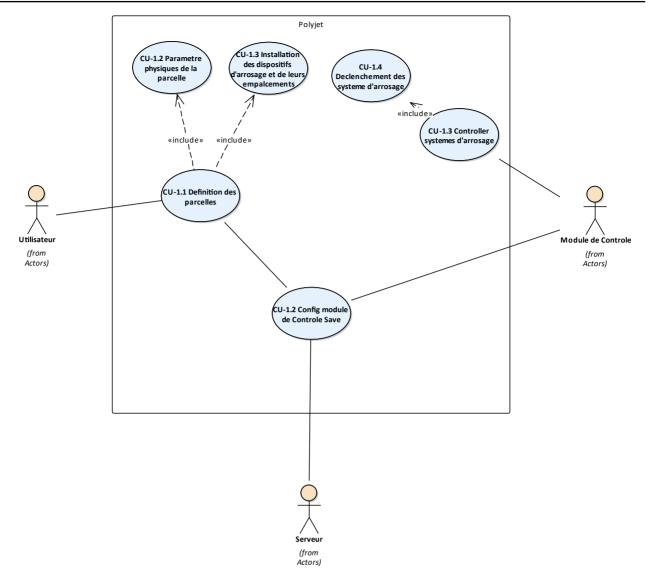


Figure 2: CU-1.0 Config

CU-1.1 Definition des parcelles

UseCase owned by 'CU-1.0 Configuration des parcelles', in package 'Use Cases'

CU-1.1 Definition des parcelles Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/27/2020

✓ UseCaseLink Source -> Destination From: CU-1.1 Definition des parcelles : UseCase, Public To: CU-1.2 Config module de Controle Save : UseCase, Public Include «include» Source -> Destination From: CU-1.1 Definition des parcelles : UseCase, Public To: CU-1.3 Installation des dispositifs d'arrosage et de leurs empalcements : UseCase, Public ✓ Include «include» Source -> Destination From: CU-1.1 Definition des parcelles : UseCase, Public To: CU-1.2 Parametre physiques de la parcelle : UseCase, Public

CONNECTORS

UseCaseLink Source -> Destination

From: Utilisateur: Actor, Public

CU-1.1 Definition des parcelles : UseCase, Public

SCENARIOS

Basic Path. Basic Path

on definit

CU-1.2 Config module de Controle Save

UseCase owned by 'CU-1.0 Configuration des parcelles', in package 'Use Cases'

CU-1.2 Config module de Controle Save Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/28/2020

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Functional. L'utilisateur doit posseder un profil

L'utilisateur doit posseder un profil afin qu'il puisse sauvegarder sa configuration sur le serveur

[Proposed, Medium difficulty.]

CONNECTORS



UseCaseLink Source -> Destination

From: Module de Controle : Actor, Public

CU-1.2 Config module de Controle Save : UseCase, Public



UseCaseLink Source -> Destination

From: Serveur: Actor, Public

CU-1.2 Config module de Controle Save : UseCase, Public



UseCaseLink Source -> Destination

From: CU-1.1 Definition des parcelles : UseCase, Public

CU-1.2 Config module de Controle Save : UseCase, Public

SCENARIOS



🛱 Basic Path. Basic Path

on definit

CU-1.2 Parametre physiques de la parcelle

UseCase owned by 'CU-1.0 Configuration des parcelles', in package 'Use Cases'

Longuer et largeur

CU-1.2 Parametre physiques de la parcelle Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/28/2020. Last modified 9/28/2020

CONNECTORS

✓ Include «include» Source → Destination

From: CU-1.1 Definition des parcelles : UseCase, Public

CU-1.2 Parametre physiques de la parcelle : UseCase, Public

CU-1.3 Controller systemes d'arrosage

UseCase owned by 'CU-1.0 Configuration des parcelles', in package 'Use Cases'

CU-1.3 Controller systemes d'arrosage Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/28/2020

CONNECTORS



/ Include «include» Source -> Destination

From: CU-1.3 Controller systemes d'arrosage : UseCase, Public CU-1.4 Declenchement des systeme d'arrosage : UseCase, Public

UseCaseLink Source -> Destination

From: Module de Controle : Actor, Public

CU-1.3 Controller systemes d'arrosage : UseCase, Public

CU-1.3 Installation des dispositifs d'arrosage et de leurs empalcements

UseCase owned by 'CU-1.0 Configuration des parcelles', in package 'Use Cases'

CU-1.3 Installation des dispositifs d'arrosage et de leurs empalcements Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/28/2020. Last modified 9/28/2020

CONNECTORS



Include «include» Source -> Destination

From: CU-1.1 Definition des parcelles : UseCase, Public

CU-1.3 Installation des dispositifs d'arrosage et de leurs empalcements : UseCase, Public

CU-1.4 Declenchement des systeme d'arrosage

UseCase owned by 'CU-1.0 Configuration des parcelles', in package 'Use Cases'

> CU-1.4 Declenchement des systeme d'arrosage Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/28/2020. Last modified 9/28/2020

CONNECTORS



Include «include» Source -> Destination

From: CU-1.3 Controller systemes d'arrosage : UseCase, Public

CU-1.4 Declenchement des systeme d'arrosage : UseCase, Public

Use Case1

UseCase owned by 'CU-1.0 Configuration des parcelles', in package 'Use Cases'

Use Case1 Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/27/2020

CU-10.0 Creation de profil

UseCase in package 'Use Cases'

Permet de creer un profil pour l'utilisateur et est stocke sur le serveur

CU-10.0 Creation de profil Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/27/2020

CONNECTORS



Include «include» Source -> Destination From: Interface Web: UseCase, Public

CU-10.0 Creation de profil : UseCase, Public

CU-11.0 Rapport Statistiques

UseCase in package 'Use Cases'

Donne un rapport sur l'utilisation du systeme d'arrosage a partir de differents speccifications

CU-11.0 Rapport Statistiques Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/28/2020

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Functional. Le systeme doit deja avoir fonctionne

Le systeme doit deja avoir fonctionne afin d;avoir des donnees.

[Proposed, Medium difficulty.]

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Functional. L'utilisateur doit un profil

[Proposed, Medium difficulty.]

CONNECTORS

Include «include» Source -> Destination From: Interface Web: UseCase, Public

CU-11.0 Rapport Statistiques : UseCase, Public

SCENARIOS

🛱 Basic Path. Basic Path

1. L'utilisateur envoie une requete

Utilisateur, serveur

2. Requete des donnees

Uses:

Serveur, module de Controle

3. Compilation des donnes

Uses:

Serveur

4. Generation du rapport a partir d'un template predefinis sur le serveur

Uses:

Serveur

5. Return rapport

Uses:

Serveur, Utilisateur

Alternate: 5a. Echec de connexion

Alternate. Echec de connexion

1. Echec de connexion quelque part dans la chaine des requetes/envoi

Serveur, module de controle

2. Retourne erreur

Uses:

Utilisateur, serveur

CU-11.0 Rapport Stats diagram

Use Case diagram in package 'Use Cases'

CU-11.0 Rapport Stats

Version 1.0

Maximiliano Falicoff created on 9/27/2020. Last modified 9/27/2020

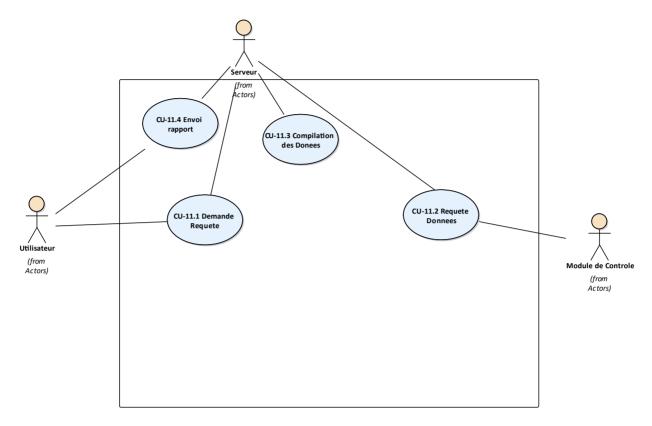


Figure 3: CU-11.0 Rapport Stats

CU-11.1 Demande Requete

UseCase owned by 'CU-11.0 Rapport Statistiques', in package 'Use Cases'

Envoi une requete pour avoir les statistiques a travers l'interface web

CU-11.1 Demande Requete Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/28/2020

✓ UseCaseLink Source -> Destination From: CU-11.1 Demande Requete: UseCase, Public To: Serveur: Actor, Public ✓ UseCaseLink Source -> Destination From: Utilisateur: Actor, Public To: CU-11.1 Demande Requete: UseCase, Public

CU-11.2 Requete Donnees

UseCase owned by 'CU-11.0 Rapport Statistiques', in package 'Use Cases'

Le serveur envoie une requete au module de controle qui possede les donnees voulues (car ca depend de la parcelle en requete)

> CU-11.2 Requete Donnees Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/28/2020

CONNECTORS

UseCaseLink

Source -> Destination

From: CU-11.2 Requete Donnees: UseCase, Public

Module de Controle : Actor, Public

UseCaseLink Source -> Destination

From: Serveur: Actor, Public

CU-11.2 Requete Donnees: UseCase, Public

CU-11.3 Compilation des Donees

UseCase owned by 'CU-11.0 Rapport Statistiques', in package 'Use Cases'

Le serveur peut maintenant compiler les donnees

CU-11.3 Compilation des Donees Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/28/2020

CONNECTORS

UseCaseLink Source -> Destination

From: Serveur: Actor, Public

CU-11.3 Compilation des Donees : UseCase, Public

CU-11.4 Envoi rapport

UseCase owned by 'CU-11.0 Rapport Statistiques', in package 'Use Cases'

Le serveur genere le rapport et l'envoi a L'utilisateur

CU-11.4 Envoi rapport Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/28/2020

CONNECTORS

UseCaseLink Source -> Destination

From: CU-11.4 Envoi rapport: UseCase, Public

Utilisateur: Actor, Public

UseCaseLink Source -> Destination

From: Serveur: Actor, Public

CU-11.4 Envoi rapport : UseCase, Public

SCENARIOS

🛱 Basic Path. Basic Path

CU-12.0 Resultats Tests

UseCase in package 'Use Cases'

Affichage des resultats des tests effectuer par le module de controle et stocke sur le serveur

CU-12.0 Resultats Tests Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/27/2020

CONNECTORS

Include «include» Source -> Destination From: Interface Web: UseCase, Public

To: CU-12.0 Resultats Tests: UseCase, Public

CU-13.0 Alertes

UseCase in package 'Use Cases'

Le module de controle envoyera des alertes a l'interface en cas d'erreurs locales

CU-13.0 Alertes Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/27/2020

CONNECTORS

✓ UseCaseLink Source -> Destination From: CU-13.0 Alertes: UseCase, Public To: Module de Controle: Actor, Public

Include «include» Source -> Destination
From: Interface Web : UseCase, Public
To: CU-13.0 Alertes : UseCase, Public

CU-2.0 Definir cycles d'arrosage

UseCase in package 'Use Cases'

Permet de definir les different cycles d'arrosoir pour chaque parcelle

CU-2.0 Definir cycles d'arrosage Version 1.0 Phase 1.0 Proposed

Maximiliano Falicoff created on 9/27/2020. Last modified 9/28/2020

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Functional. Le module de controle doit avoir les configuration des parcelles

[Proposed, Medium difficulty.]

☑ Functional. L'utilisateur doit avoir un profil

[Proposed, Medium difficulty.]

CONNECTORS

Include «include» Source -> Destination

From: CU-1.0 Configuration des parcelles : UseCase, Public CU-2.0 Definir cycles d'arrosage : UseCase, Public

SCENARIOS

🛱 Basic Path. Basic Path

1. Input des durees des periodes d'arrosage

Uses:

Utilisateur

2. Input du debit d'eau a utiliser

Utilisateur

3. Save local et serveur

Uses:

Module de Controle et Serveur

Alternate: 3a. Connexion echoue

Alternate. Connexion echoue

1. Renvoie erruer de connexion

Uses:

Serveur

CU2.0 Definir cycles d'arrosage diagram

Use Case diagram in package 'Use Cases'

CU2.0 Definir cycles d'arrosage Version 1.0

Maximiliano Falicoff created on 9/27/2020. Last modified 9/28/2020

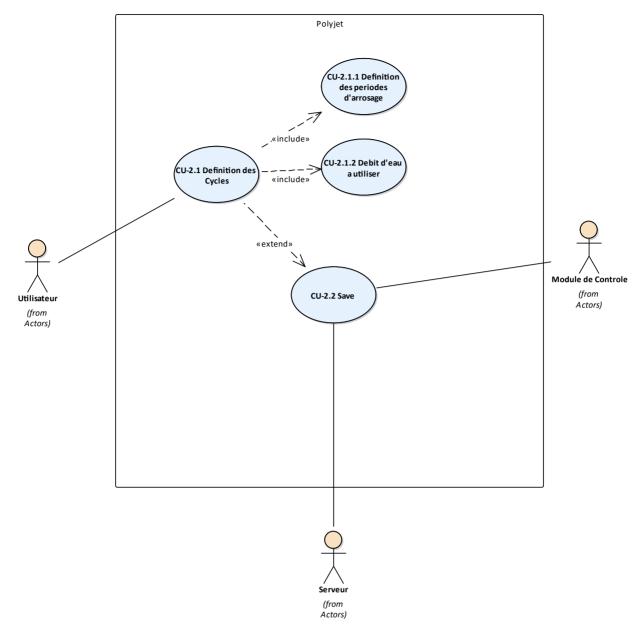


Figure 4: CU2.0 Definir cycles d'arrosage

CU-2.1 Definition des Cycles

UseCase owned by 'CU-2.0 Definir cycles d'arrosage', in package 'Use Cases'

On peut definir Un cycle pour une parcelle en mettant la duree d'arrosage et ainsi la periode auquel on devra arroser

CU-2.1 Definition des Cycles Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/28/2020

CONNECTORS

✓ Include «include» Source -> Destination

From: CU-2.1 Definition des Cycles : UseCase, Public

To: CU-2.1.1 Definition des periodes d'arrosage : UseCase, Public

CONNECTORS



Extend «extend» Source -> Destination

From: CU-2.1 Definition des Cycles: UseCase, Public

CU-2.2 Save : UseCase, Public



Include «include» Source -> Destination

From: CU-2.1 Definition des Cycles: UseCase, Public CU-2.1.2 Debit d'eau a utiliser : UseCase, Public



UseCaseLink Source -> Destination

From: Utilisateur: Actor, Public

To: CU-2.1 Definition des Cycles : UseCase, Public

CU-2.1.1 Definition des periodes d'arrosage

UseCase owned by 'CU-2.0 Definir cycles d'arrosage', in package 'Use Cases'

CU-2.1.1 Definition des periodes d'arrosage Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/28/2020. Last modified 9/28/2020

CONNECTORS



Include «include» Source -> Destination

From: CU-2.1 Definition des Cycles: UseCase, Public

CU-2.1.1 Definition des periodes d'arrosage : UseCase, Public

CU-2.1.2 Debit d'eau a utiliser

UseCase owned by 'CU-2.0 Definir cycles d'arrosage', in package 'Use Cases'

CU-2.1.2 Debit d'eau a utiliser Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/28/2020. Last modified 9/28/2020

CONNECTORS



/ Include «include» Source -> Destination

From: CU-2.1 Definition des Cycles: UseCase, Public CU-2.1.2 Debit d'eau a utiliser : UseCase, Public

CU-2.2 Save

UseCase owned by 'CU-2.0 Definir cycles d'arrosage', in package 'Use Cases'

A chaque modification sur le config du systeme, cela entriane automatiquement un save du connfig actuel

CU-2.2 Save Version 1.0 Phase 1.0 Proposed

Maximiliano Falicoff created on 9/27/2020. Last modified 9/28/2020

CONNECTORS

UseCaseLink Source -> Destination From: Module de Controle : Actor, Public

CU-2.2 Save : UseCase, Public

UseCaseLink Source -> Destination

From: Serveur: Actor, Public CU-2.2 Save : UseCase, Public

Extend «extend» Source -> Destination

From: CU-2.1 Definition des Cycles: UseCase, Public

To: CU-2.2 Save : UseCase, Public

CU-3.0 Suspendre/Effacer un programme

UseCase in package 'Use Cases'

Permet d'effacer un programme d'arrosoir ou de le suspendre indefiniment

CU-3.0 Suspendre/Effacer un programme Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/27/2020

CONNECTORS

✓ Include «include»

Source -> Destination

From: CU-1.0 Configuration des parcelles : UseCase, Public CU-3.0 Suspendre/Effacer un programme : UseCase, Public

CU-4.0 Declencher arrosage Manuellement

UseCase in package 'Use Cases'

L;'utilisateur declanche manuellement un arrosage

CU-4.0 Declencher arrosage Manuellement Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/27/2020

CONNECTORS

Include «include» Source -> Destination

From: Declanchage Manuellement: UseCase, Public

CU-4.0 Declencher arrosage Manuellement : UseCase, Public

CU-5.0 Contoller ajout d'engrais

UseCase in package 'Use Cases'

Permet de ou de ne pas ajouter des engrais. Si on ajoute des engrais,, ils sont introduit au systeme d'arrosage

CU-5.0 Contoller ajout d'engrais Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/27/2020

CONNECTORS

Include «include» Source -> Destination

From: CU-1.0 Configuration des parcelles : UseCase, Public CU-5.0 Contoller ajout d'engrais : UseCase, Public

CU-6.0 Declancher vidange

UseCase in package 'Use Cases'

Declanche manuellemnt le vidange au debut de l'hiver

CU-6.0 Declancher vidange Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/27/2020

CONNECTORS



Source -> Destination

From: Declanchage Manuellement: UseCase, Public CU-6.0 Declancher vidange: UseCase, Public

CU-7.0 Save/Load config

UseCase in package 'Use Cases'

Permet de sauvegarder la configuration actuelle localement mais aussi en synchronisation avec le serveur

CU-7.0 Save/Load config Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/27/2020

CONNECTORS



Source -> Destination

From: Serveur: Actor, Public

CU-7.0 Save/Load config: UseCase, Public

Include «include» Source -> Destination

From: CU-1.0 Configuration des parcelles : UseCase, Public

CU-7.0 Save/Load config: UseCase, Public

CU-8.0 Actalisation du systeme

UseCase in package 'Use Cases'

Permet d'actualiser le systeme avec une nouvelle version qui provient du Serveur

CU-8.0 Actalisation du systeme Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/27/2020

CONNECTORS

UseCaseLink Source -> Destination

From: Serveur: Actor, Public

CU-8.0 Actalisation du systeme : UseCase, Public

UseCaseLink Source -> Destination From: Module de Controle : Actor, Public

CU-8.0 Actalisation du systeme : UseCase, Public

CU-9.0 Effectuer Tests

UseCase in package 'Use Cases'

CU-9.0 Effectuer Tests Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/27/2020

CONNECTORS



UseCaseLink Source -> Destination

From: CU-9.0 Effectuer Tests: UseCase, Public

Serveur : Actor, Public



UseCaseLink Source -> Destination

From: CU-9.0 Effectuer Tests: UseCase, Public Module de Controle : Actor, Public

Declanchage Manuellement

UseCase in package 'Use Cases'

Declanchage Manuellement Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/28/2020

CONNECTORS



✓ Include «include» Source → Destination

From: Declanchage Manuellement: UseCase, Public

CU-4.0 Declencher arrosage Manuellement : UseCase, Public

CONNECTORS



✓ Include «include» Source -> Destination

From: Declanchage Manuellement: UseCase, Public CU-6.0 Declancher vidange: UseCase, Public



UseCaseLink Source -> Destination

From: Utilisateur: Actor, Public

Declanchage Manuellement: UseCase, Public

Interface Web

UseCase in package 'Use Cases'

Interface Web Version 1.0 Phase 1.0 Proposed Maximiliano Falicoff created on 9/27/2020. Last modified 9/28/2020

CONNECTORS



✓ Include «include» Source → Destination

From: Interface Web: UseCase, Public

CU-12.0 Resultats Tests: UseCase, Public



✓ Include «include» Source → Destination

From: Interface Web: UseCase, Public CU-13.0 Alertes: UseCase, Public



✓ Include «include» Source -> Destination

From: Interface Web: UseCase, Public

CU-10.0 Creation de profil : UseCase, Public



Include «include» Source -> Destination

From: Interface Web: UseCase, Public

CU-11.0 Rapport Statistiques : UseCase, Public



UseCaseLink Source -> Destination

From: Utilisateur: Actor, Public

Interface Web: UseCase, Public

Diagramme de concept

Package in package 'Analyse'

Diagramme de concept Version 1.0 Phase 1.0 Proposed françois created on 9/4/2018. Last modified 9/4/2018

Starter Class Diagram diagram

Class diagram in package 'Diagramme de concept'



Figure 5: Starter Class Diagram