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Année : 1ère

Année du diplôme : 2021

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Date : mardi 12.11.2019

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Division Technique

Cités des Microtechniques 3

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**Module 2 – Gestion flexible du chariot**

*Documentation technique*

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# Introduction

## Description du mandat

Dans le cadre de fin de module 2 (informatique), il nous a été demandé de réaliser la mise à jour d’une installation « chariot » réalisée dans le cadre du module 1 (automatisation). Ce travail comporte plusieurs fonctionnalités qui doivent être impérativement fonctionnelles. Les voici :

* Un programme en langage C# permettant la création, suppression et modification de lots. Il est également être capable de suivre la traçabilité des lots. Enfin, on pourra consulter les différents événements survenus sur la ligne de production.
* Un programme automate pouvant lire les lots et la recette correspondante depuis la base de données. Il doit être capable de produire correctement les lots téléchargés. Enfin, il devra écrire sur la base de données les événements survenus sur la ligne de production.
* Une base de données MySQL hébergée sur les serveurs de l’école. Elle devra stocker les lots, les recettes et les événements qui surviendront sur la ligne de production.

## Informations sur le matériel

Tout le matériel essentiel à la réalisation de ce projet se trouve au sein de l’Ecole Supérieure Technique. Voici la liste du matériel nécessaire :

Ressources :

* Une salle informatique avec un réseau de PC (B2-25) et une pour l’installation (B0-26)
* 1 installation « Chariot »
* 1 ordinateur par étudiant
* 1 accès internet

Installation « Chariot » :

* L’installation comporte 5 positions linéaires, accessibles pour un chariot.
* L’entrainement est fait par un moteur DC.
* La gestion se fait avec un automate WAGO 750-873.
* 2 barrières lumineuses de sécurité sont présentes dans l’installation.
* Les positions sont numérotées de gauche à droite (1 à 5).
* Les positions 1 et 5 sont contrôlées par des fins de course.
* Les positions 2 et 4 sont contrôlées par des capteurs inductifs.
* La position 3 est contrôlée par un capteur à galet.

Software :

* 1 logiciel CoDeSys v2.3
* 1 logiciel Visual Studio 2017 Community
* 1 logiciel JMerise version étudiante
* Divers logiciels d’édition de documents (Office 365)

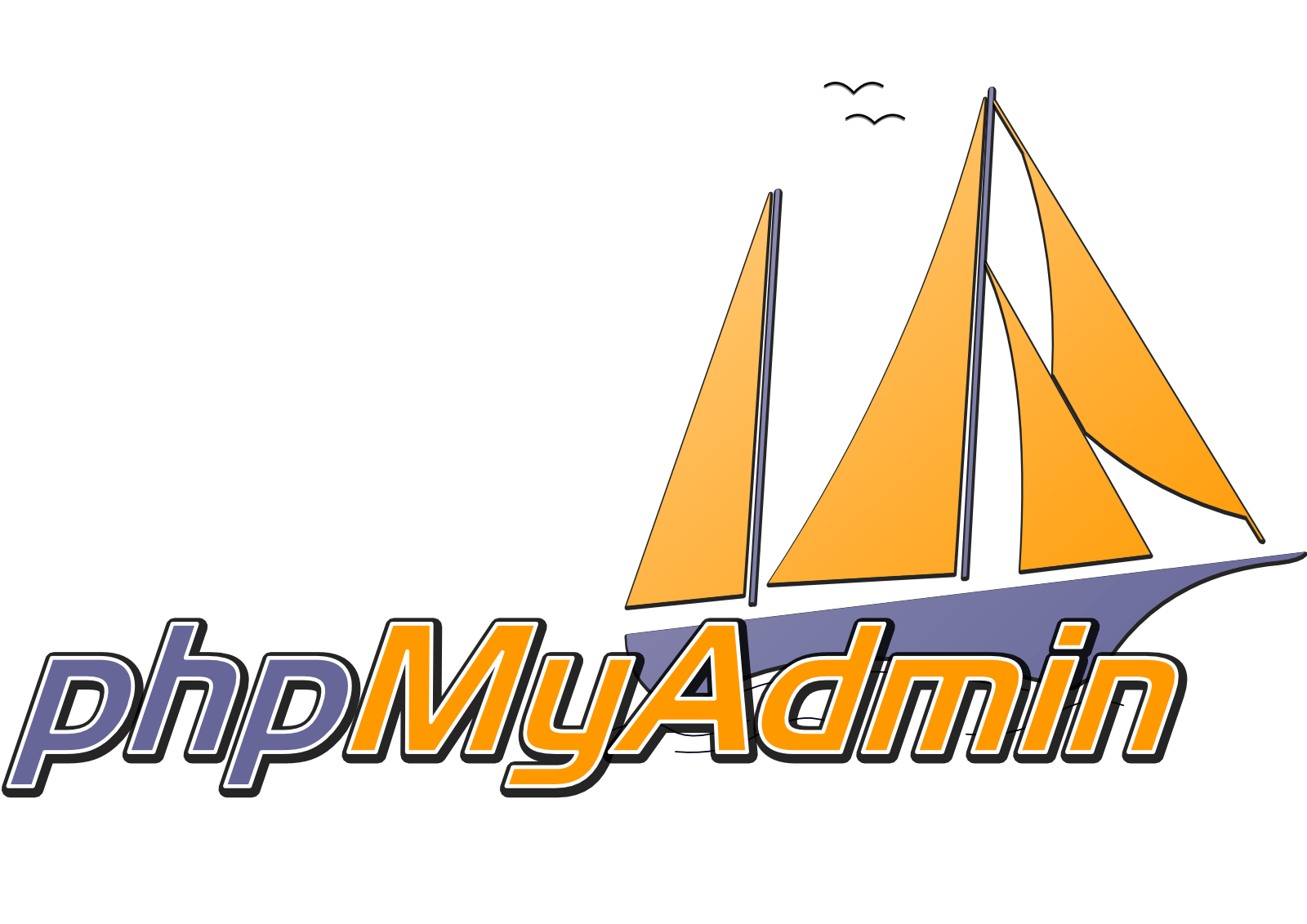
## But du document

Ce document est destiné à expliquer les détails techniques du travail ainsi que le fonctionnement des différentes parties du projet telles que la programmation C#, la programmation automate et l’utilisation d’une base de données.

# Base de données

## Description

La base de données est stockée sur les serveurs de l’école. Elle se caractérise par un langage de type MySQL et possède une application web prénommée « phpMyAdmin » pour un système de gestion de base de données.

****

Symbole du SGBD MySQL.

Application web pour le SGBD.

## Modèle conceptuel de données (MCD)

![Une image contenant carte, texte

Description générée automatiquement](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEJpbGFsIEpvaHJ5AAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMyNQAAkpIAAgAAAAMyNQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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de créer le MCD il faut bien analyser la situation car c’est cette analyse qui déterminera quelles données stockées sur la base de données et comment les stocker. Ensuite il faut construire le modèle conceptuel de données. Un MCD est une structure qui représente la manière dont vont être stockées les données. Il doit être aisément compréhensible et bien sûr, chaque entité doit contenir les attributs permettant de la définir, mais attention, il ne doit pas y avoir de redondance. Le MCD a été conçu selon le modèle EA (entité-association). Nous l’avons créé à l’aide du logiciel « JMerise ».

MCD de la base de données.

Entité : cela coïncide à un ensemble d’informations qui correspondent au même « objet » à stocker. Cette entité a un nom unique afin de la manipuler facilement. Plus tard dans la conversion, l’entité se transformera en table et deviendra concrètement une table lors de la réalisation effective de la base de données.

Relation : Une association ou relation est la représentation d’une liaison logique entre plusieurs entités.

**Cardinalité** : Les cardinalités sont des caractères (0, 1 et n) qui fonctionnent par couple et qui sont présents de chaque côté d’une association (sur chaque « patte »). Ils indiquent des informations importantes pour la suite.

## Une image contenant texte, carte Description générée automatiquementModèle logique de données (MLD)

MLD de la base de données.

Après avoir créé le MCD il faut maintenant le convertir de manière automatique avec le logiciel « JMerise ». Le modèle logique de données (MLD) provient directement du MCD et spécifie la structure de stockage des données. Il représente le nombre et le type de tables employées.

## Modèle physique de données (MPD)

Le modèle physique de données provient lui du MLD. Le MPD permet d’intégrer dans un système de gestion de base de données (SGBT) le concept de base de données que l’on a défini au cours des deux étapes précédentes. La génération du MPD se fait également au moyen du logiciel « JMerise ».

![Une image contenant capture d’écran

Description générée automatiquement](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEJpbGFsIEpvaHJ5AAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM1MwAAkpIAAgAAAAM1MwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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MPD au format SQL pour la table « Operation ».

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Description générée automatiquement](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEJpbGFsIEpvaHJ5AAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM2MQAAkpIAAgAAAAM2MQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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le MPD pour la table « Status » :

MPD au format SQL pour la table « Status ».

## Dictionnaire de données

Entité « Lot » permettant de stocker tous les lots du système :

|  |  |  |  |
| --- | --- | --- | --- |
| **Nom de l’attribut** | **Description** | **Type** | **Taille** |
| Lot\_Numero | Numéro du lot. | Int (auto-incrément) |  |
| Lot\_Nom | Nom du lot. | Varchar | 30 |
| Lot\_DateCreation | Date et heure de la création du lot. | DateTime |  |
| Lot\_DateButoir | Date et heure à laquelle le lot devra être fait. | DateTime |  |
| Lot\_Quantite | Quantité de pièces (cycles) souhaités. | Int |  |
| Lot\_QantiteAtteinte | Quantité de pièces (cycles) réalisés. | Int |  |

Entité « recette » permettant de stocker toutes les recettes peu importe à quel lot elles sont liées :

|  |  |  |  |
| --- | --- | --- | --- |
| **Nom de l’attribut** | **Description** | **Type** | **Taille** |
| Rct\_Numero | Numéro de la recette. | Int (auto-incrément) |  |
| Rct\_Nom | Nom de la recette. | Varchar | 30 |

Entité « Evenement » permettant de stocker tous les événements peu importe de quel lot ils proviennent :

|  |  |  |  |
| --- | --- | --- | --- |
| **Nom de l’attribut** | **Description** | **Type** | **Taille** |
| Eve\_ID | ID d’identification d’événement. | Int (auto-incrément) |  |
| Eve\_Date | Date et heure de l’événement. | DateTime |  |
| Eve\_Message | Message expliquant l’événement. | Varchar | 50 |

Entité « Operation » permettant de stocker les opérations peu importe à quelle recette elles sont liées :

|  |  |  |  |
| --- | --- | --- | --- |
| **Nom de l’attribut** | **Description** | **Type** | **Taille** |
| Opr\_ID | ID d’identification de l’événement. | Int (auto-incrément) |  |
| Opr\_Numero | Numéro de l’opération au sein de la recette. | Int |  |
| Opr\_Position | Numéro de la position où ira le chariot. | Int |  |
| Opr\_Temps | Temps d’attente du chariot à la position. | Int |  |
| Opr\_Description | Description de l’opération. | Varchar | 50 |
| Opr\_Quittance | Demander ou non une quittance utilisateur. | Bool |  |

Entité « Status » permettant de stocker tous les états possibles des lots :

|  |  |  |  |
| --- | --- | --- | --- |
| **Nom de l’attribut** | **Description** | **Type** | **Taille** |
| Stu\_ID | Identifiant du statut | Int (auto-incrément) |  |
| Stu\_Etat | Libellé du statut | Varchar | 50 |

# Partie automate

## Introduction

Le programme automate demandé pour le module 2 (informatique) est une adaptation du programme demandé au module 1 (automatisation). Il est maintenant capable d’offrir à l’utilisateur la possibilité de récupérer les lots depuis la base de données et de les produire. Il doit également envoyer les événements se produisant vers la base de données. Il sera codé avec l’environnement de programmation « CodeSys V2.3 ».

## Visualisations

Toute la description des visualisations et pop-ups a déjà été réalisée dans le cahier des charges. Se référer au point 5.1 du cahier des charges pour obtenir des informations au sujets des visualisations et au point 5.2 en ce qui concerne les pop-ups.

## Traçabilité des lots

Une traçabilité des lots était demandée pour ce travail. Qu’est-ce que cela signifie ? Cela signifie qu’il faut envoyer vers la base de données tout événement qui apparaitrait sur la ligne de production. Il ne suffit pas d’enregistrer les événements se déclenchant. En effet, il faut également tenir à jour la base de données en actualisant constamment les variables le demandant. La description de la traçabilité des lots ainsi que tous les événements et mises à jour ont été analysés dans le cahier des charges au point 5.4.

## Statuts des lots

Chaque lot possède en tout temps un statut qui le définit. Un lot ne peut posséder qu’un seul statut à la fois. La description et l’énumération des statuts possibles ont déjà été analysées dans le cahier des charges au point 5.3.

## Description des programmes

Une image contenant texte

Description générée automatiquementJ’ai pris la décision de créer un nouveau dossier concernant directement la base de données. En effet, le programme automate est séparé en plusieurs dossiers et chacun de ces dossiers contient uniquement des programmes en rapport avec celui-ci. Pourtant, une exception a été faite ici avec le programme « ErreursCom » car il appartient plus au dossier « Gestion des défauts » qu’à celui de la base de données. La partie programmation automate a été réalisée par Bilal.

Programmes concernant la base de données.

### CommunicationSQL

Ce programme est la base du programme automate concernant la base de données. En effet, c’est lui qui contient les cinq blocs fonctions pour communiquer avec celle-ci. Le premier bloc concerne le login avec la base de données. Ensuite, nous avons deux blocs qui sont intimement liés entre eux. Un qui travaille à envoyer des requêtes MySQL dans le but de recevoir des informations et l’autre est dédié à la conversion des informations « brutes » reçues depuis la base de données dans le but qu’elles soient lisibles par le programmeur et l’utilisateur. Ensuite, nous avons un bloc fonction pour l’envoi de requêtes MySQL dans le but d’écrire sur la base de données. Ce bloc n’attend pas d’informations en retour depuis la BD. Enfin, un dernier bloc permet de se déconnecter de la base de données.

Voici un aperçu des cinq blocs fonctions nécessaires à la communication entre l’automate et la base de données :

Une image contenant capture d’écran

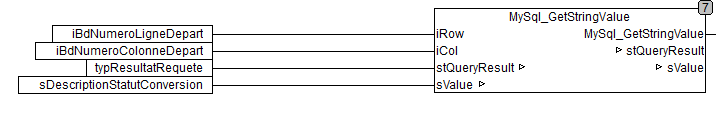
Description générée automatiquement

Bloc fonction « Login ».

Une image contenant capture d’écran

Description générée automatiquement

Bloc fonction « Lecture ».



Fonction « Conversion ».

Une image contenant capture d’écran

Description générée automatiquement

Bloc fonction « Ecriture ».

Une image contenant capture d’écran

Description générée automatiquement

Bloc fonction « Logout ».

### EnvoiEvenement

Ce programme permet d’envoyer des événements vers la base de données. En plus de cela, il est capable de mettre à jour certaines valeurs présentes sur la BD comme par exemple la quantité de pièces réalisées pour un lot. Ce programme possède cinq étapes. Voici une brève description pour chacune des étapes.

**Etape n°1** : connexion avec la base de données.

Cette étape s’occupe uniquement de connecter l’automate à la base de données. Elle fait un lien avec le bloc fonction « Login » du programme « CommunicationSQL ». Elle se connecte à la base de données s’il y a des événements à envoyer ou si le cycle est en production.

**Etape n°2** : envoi des événements et mise à jour des valeurs.

Cette étape est destinée à envoyer séparément chaque événement apparaissant sur la ligne de production vers la base de données. De plus, elle est capable de mettre à jour des valeurs comme le statut actuel du lot ou encore la quantité de pièces réalisée. Elle fait un lien avec le bloc fonction « Ecriture » du programme « CommunicationSQL ».

**Etape n°3** : attente de la réponse de la base de données.

Cette étape est présente uniquement pour s’assurer que la base de données à bien pris en compte la requête (écriture sur la base de données). Comme chaque événement est envoyé séparément, cette étape joue un rôle de temporisation pour éviter de surcharger la base de données et ainsi perdre des informations. De plus, elle peut passer à la déconnexion de la base de données s’il n’y a plus d’événements à envoyer. Dans le cas contraire, elle retourne à l’étape deux.

**Etape n°4** : déconnexion de la base de données.

Cette étape est utilisée pour déconnecter la base de données de l’automate. Cependant, la déconnexion ne sera effective uniquement à l’étape suivante. Elle fait un lien avec le bloc fonction « Logout » du programme « CommunicationSQL ».

**Etape n°5** : vérification que la base de données est bien déconnectée.

Cette étape s’assure que la base de données est bien déconnectée. Une fois déconnectée, il faudra attendre qu’il y ait de nouveaux éléments à envoyer pour qu’il y ait une nouvelle connexion à la base de données.

### InitialisationTabRequetes

Cette fonction rassemble toutes les requêtes MySQL du programme. En effet, il suffit de lui transmettre un numéro de requête pour que celle-ci s’occupe de vider le tableau de requêtes et ensuite copier la requête demandée à l’intérieur de celui-ci. Les requêtes sont agencées de la sorte : de 1 à 99 ce sont les requêtes concernant la récupération de lots. Ensuite nous avons les requêtes de 100 à 999 et celles-ci concernent la récupération de la recette liée au lot. A partir de la 1000ème, ce sont des requêtes qui couvrent l’envoi d’événements et la mise à jour de valeurs sur la base de données.

### RecuperationLots

Ce programme permet de récupérer tous les lots présents sur la base de données. Cependant, tous ces lots ne doivent pas être terminés. En effet, il est inutile de télécharger des lots terminés vers l’automate car il n’y en aurait aucune utilité. Ce programme possède sept étapes. Voici une brève description pour chacune des étapes.

**Etape n°1** : connexion avec la base de données.

Cette étape s’occupe uniquement de connecter l’automate à la base de données. Elle fait un lien avec le bloc fonction « Login » du programme « CommunicationSQL ». Elle se connecte à la base de données s’il y a des événements à envoyer ou si le cycle est en production.

**Etape n°2** : demande du nombre de lots à afficher sur l’automate.

Cette étape demande le nombre de lots à télécharger depuis la base de données. En effet, il peut paraître inutile de demander cela à la base de données car le bloc fonction « Lecture » mentionne le nombre de lots téléchargés mais uniquement après les avoir téléchargés ! C’est cette dernière spécification qui nous a motivé à ajouter cette étape. En effet, il n’y a pas besoin d’effectuer toutes les prochaines étapes s’il n’y a pas de lots disponibles à télécharger. Dans le cas contraire, s’il y a trop de lots, on peut alors découper les lots pour ne pas surcharger l’automate. Cette étape fait un lien avec le bloc fonction « Lecture » du programme « CommunicationSQL ».

**Etape n°3** : attente de la réponse de la base de données.

Cette étape est présente uniquement pour s’assurer que la base de données à bien pris en compte la requête (lecture de la base de données). Comme la base de données prend un certain temps à répondre, il faut attendre qu’elle ait transmis l’information avant de passer à la suite.

**Etape n°4** : demande des lots à la base de données.

Cette étape demande à la base de données de télécharger tous les lots qui ne sont pas terminés vers l’automate. S’il n’y a pas de lot, elle passe directement à l’étape suivante. Elle fait un lien avec le bloc fonction « Lecture » du programme « CommunicationSQL ».

**Etape n°5** : attente de la réponse de la base de données.

Cette étape est présente uniquement pour s’assurer que la base de données à bien pris en compte la requête (lecture de la base de données). Comme la base de données prend un certain temps à répondre, il faut attendre qu’elle ait transmis l’information avant de passer à la suite.

**Etape n°6** : déconnexion de la base de données.

Cette étape est utilisée pour déconnecter la base de données de l’automate. Cependant, la déconnexion ne sera effective uniquement à l’étape suivante. Elle fait un lien avec le bloc fonction « Logout » du programme « CommunicationSQL ».

**Etape n°7** : vérification que la base de données soit bien déconnectée.

Cette étape s’assure que la base de données est bien déconnectée. Une fois déconnectée, il faudra attendre qu’il y ait de nouveaux éléments à envoyer pour qu’il y ait une nouvelle connexion à la base de données.

### RecuperationRecette

Ce programme permet de récupérer la recette correspondante au lot que l’utilisateur aura préalablement choisi via la récupération de lots. Celle-ci n’est exécutée uniquement lorsque les lots ont déjà été téléchargés. Il n’est pas possible de récupérer une recette si on n’a pas choisi un lot.

**Etape n°1** : connexion avec la base de données.

Cette étape s’occupe uniquement de connecter l’automate à la base de données. Elle fait un lien avec le bloc fonction « Login » du programme « CommunicationSQL ». Elle se connecte à la base de données s’il y a des événements à envoyer ou si le cycle est en production.

**Etape n°2** : demande du numéro de la recette.

Cette étape demande à la base données le numéro de la recette en fonction du numéro de lot que l’utilisateur aura au préalable choisi. Cette étape fait un lien avec le bloc fonction « Lecture » du programme « CommunicationSQL ».

**Etape n°3** : attente de la réponse de la base de données.

Cette étape est présente uniquement pour s’assurer que la base de données à bien pris en compte la requête (lecture de la base de données). Comme la base de données prend un certain temps à répondre, il faut attendre qu’elle ait transmis l’information avant de passer à la suite.

**Etape n°4** : demande du nom de la recette.

Cette étape demande à la base de données le nom de la recette en fonction de la précédente requête qui était la demande du numéro de la recette. Cette étape fait un lien avec le bloc fonction « Lecture » du programme « CommunicationSQL ».

**Etape n°5** : attente de la réponse de la base de données.

Cette étape est présente uniquement pour s’assurer que la base de données à bien pris en compte la requête (lecture de la base de données). Comme la base de données prend un certain temps à répondre, il faut attendre qu’elle ait transmis l’information avant de passer à la suite.

**Etape n°6** : demande du nombre d’opérations que contient la recette.

Cette étape demande à la base de données combien est-ce que la recette possède d’opérations. Cette étape peut paraître inutile car le bloc fonction de lecture aurait retourné le nombre d’opérations au moment où il les téléchargerait. Cependant, il est préférable de le savoir avant car s’il n’y a pas d’opération, on peut alors passer toutes les étapes suivantes. Cette étape fait un lien avec le bloc fonction « Lecture » du programme « CommunicationSQL ».

**Etape n°7** : attente de la réponse de la base de données.

Cette étape est présente uniquement pour s’assurer que la base de données à bien pris en compte la requête (lecture de la base de données). Comme la base de données prend un certain temps à répondre, il faut attendre qu’elle ait transmis l’information avant de passer à la suite.

**Etape n°8** : demande des opérations à la base de données.

Cette étape demande à la base de données de lui envoyer toutes les opérations contenues dans la recette. Cette étape fait un lien avec le bloc fonction « Lecture » du programme « CommunicationSQL ».

**Etape n°9** : attente de la réponse de la base de données.

Cette étape est présente uniquement pour s’assurer que la base de données à bien pris en compte la requête (lecture de la base de données). Comme la base de données prend un certain temps à répondre, il faut attendre qu’elle ait transmis l’information avant de passer à la suite.

**Etape n°10** : déconnexion de la base de données.

Cette étape est utilisée pour déconnecter la base de données de l’automate. Cependant, la déconnexion ne sera effective uniquement à l’étape suivante. Elle fait un lien avec le bloc fonction « Logout » du programme « CommunicationSQL ».

**Etape n°11**: vérification que la base de données est bien déconnectée.

Cette étape s’assure que la base de données est bien déconnectée. Une fois déconnectée, il faudra attendre qu’il y ait de nouveaux éléments à envoyer pour qu’il y ait une nouvelle connexion à la base de données.

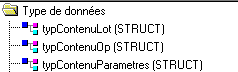
### ViderTableauLots

Cette fonction, quand elle est appelée, permet de vider toutes les cases du tableau contenant les lots téléchargés depuis la base de données. Elle est utile car une fois qu’un lot a été terminé sur la ligne de production, l’utilisateur retournera au menu principal et téléchargera les nouveaux lots à produire et s’il il n’y a pas de nouveaux lots créés, la case correspondante ne sera pas supprimée du tableau. Cette fonction remet également toutes les cases à leurs valeurs initiales.

### ErreursCom

Ce programme permet de détecter toutes les erreurs concernant la connexion entre l’automate et la base de données. En effet, comme mentionnée au point 3.5.1 de ce document, il nécessite plusieurs blocs fonctions pour communiquer avec la base de données. Ces blocs fonctions sont programmés de telle sorte à ce qu’ils transmettent un code d’erreur spécifique lorsqu’une erreur survient. Nous avons séparé les erreurs en quatre parties distinctes : login, lecture, écriture et logout. Dès qu’une de ces erreurs survient, un message est affiché à l’utilisateur qui le valide et règle le problème. Le cycle n’est pas arrêté immédiatement car la détection des erreurs prend un certain temps (environ 3-4 minutes) c’est bien trop lent pour éviter de perdre des informations. Cependant, le cycle terminera quand même la pièce et ensuite s’arrêtera. C’est pour cette raison qu’il est compliqué de gérer ces erreurs.

## Structures

Les structures sont des groupes de variables. Elles sont beaucoup plus simples à manier que des variables séparées. Elles sont notamment utilisées pour définir un élément qui possède plusieurs caractéristiques.

Toutes les structures du programme.

### Lot

Structure d’un lot.

Une image contenant capture d’écran

Description générée automatiquementUn lot possède plusieurs caractéristiques qui le définissent. Un numéro, un nom, une date de création, une date butoir, une quantité de pièces à atteindre et une quantité de pièces réalisées. En ce qui concerne la date butoir, elle n’est pas gérée au niveau des programmes (automate et C#). Dans le futur, on pourra intégrer un système d’alarme qui préviendra une fois que la date butoir approche et ceci pour éviter des retards.

### Opérations d’une recette

Structure d’une opération d’une recette.

Une recette possède plusieurs opérations et ces opérations sont caractérisées par un numéro, une position où devra se rendre le chariot, un temps que le chariot va patienter à la position souhaitée, une description de l’opération ainsi que la possibilité de faire quittancer l’opérateur pour passer à l’opération suivante.

## Bibliothèques utilisées

Une image contenant capture d’écran

Description générée automatiquementLes bibliothèques sont très importantes pour un automate. Elles permettent d’ajouter des fonctionnalités spécifiques. En effet, un automate sans bibliothèque ne serait capable d’effectuer que de très simples opérations comme les opérations mathématiques de base ou encore des bêtes comparaisons. Mais avec l’ajout de bibliothèques, l’intelligence de l’automate croit de manière extraordinaire.

Toutes les bibliothèques de l’automate.

### WagoLibMySQL\_03.lib

Cette bibliothèque permet de gérer la communication entre l’automate et la base de données. Elle possède entre autres les blocs fonctions de login, lecture, écriture et logout.

### SysLibRTC.lib

Cette bibliothèque permet de récupérer l’heure de l’automate. Elle est utile pour savoir l’heure à laquelle les événements se produisent sur la ligne de production et les envoyer vers la base de données.

### Util.lib

Cette bibliothèque possède tout un lot de fonctions permettant de réaliser des tâches d’automatisation basiques. La fonction de clignotement « BLINK » nous est utile dans notre cas pour faire clignoter les témoins lumineux.

### Standard.lib

Cette bibliothèque possède les fonctions les plus utilisées en programmation automate. Tous les fronts-montants et descendants ainsi que les temporisations sont contenus dans cette bibliothèque. Les compteurs ainsi que diverses fonctions permettant d’agir sur des variables de type « String ».

### Autres bibliothèques

Toutes les autres bibliothèques ont été appelées automatiquement soit par l’automate ou soit par une autre bibliothèque.

## Erreurs de communication

Un programme de détection d’erreurs concernant la base de données a été ajouté. Ce point n’était pas demandé dans le mandat mais nous avons trouvé judicieux de le rajouter au vu des problèmes concernant la bibliothèque gérant la communication entre l’automate et la base de données. Ce programme détecte les erreurs survenues dans les blocs fonctions interagissant avec la base de données. Voir le point 3.5.7 de ce document pour avoir plus d’informations sur ce programme. Nous n’avons pas inventé les erreurs possibles qui peuvent survenir, il suffit de consulter la documentation concernant la bibliothèque « WagoLibMySQL\_03.lib ».

### Connexion avec la base de données

Quand il faut établir la connexion entre l’automate et la base de données, il peut survenir des erreurs. Nous avons décidé de séparer ces erreurs en cinq catégories. Les voici :

* Erreurs TCP
* Erreurs de paramètres
* Erreurs MySQL
* Erreurs de time out

### Lecture depuis la base de données

Quand il faut lire des informations sur la base de données comme par exemple les lots ou les recettes, il peut survenir des erreurs. Nous avons décidé de séparer ces erreurs en trois catégories. Les voici :

* Erreurs TCP
* Erreurs MySQL
* Erreurs de time out

### Ecriture vers la base de données

Quand il faut écrire des informations sur la base de données telles que des événements, il peut survenir des erreurs. Nous avons décidé de séparer ces erreurs en catégories distinctes. Les voici :

* Erreurs TCP
* Erreurs MySQL
* Erreurs de time out

### Déconnexion de la base de données

Quand il faut rompre la connexion entre l’automate et la base de données, il peut survenir des erreurs. Les voici :

* Erreurs TCP
* Erreurs de time out

# Partie C#

## Structure du programme

La structure du programme est optimisée pour permettre d’ajouter facilement des fonctionnalités ou des pages. Toute la gestion de la base de données est gérée dans *DBManager* ce qui permet de réutiliser ses fonctionnalités pour toutes les pages.

Pour ajouter une nouvelle page il suffit de l’ajouter dans Visual Studio, de créer un bouton sur la page d’accueil et de copier *GoToForm(new nomDeLaNouvellePage)* dans la fonction de l’événement « click » du nouveau bouton.

Toutes les fonctions ne sont pas disponibles dans DBManager pour toutes les entités dans la base de données vu que jusqu’à maintenant, il n'y en a pas eu la nécessitée. Ces fonctions seraient ajoutées très rapidement en prenant les autres fonctions comme exemple.

## Design

Le design du programme est gardé minimaliste et le plus proche des programmes natifs Windows pour éviter des confusions. Les buts principaux étaient intuitifs et user-friendly.

## Versioning du code

Le versioning du code, la gestion et suivit des bugs est géré sur GitHub sous le lien suivant : [GitHub.com/ILikeBananas/app\_module\_2](https://github.com/ILikeBananas/app_module_2)

Nous avons choisi GitHub car Jonny l’utilisait déjà pour des autres projets personnels et professionnels. L’interface de GitHub est agréable à utiliser et offre des fonctionnalités supplémentaires comme un suivit de tickets de bugs, etc. Nous sommes loin d’utiliser toutes les fonctionnalités de GitHub mais elles ne sont pas toutes nécessaires.

Le code de CodeSys ne se situe pas sur GitHub parce que les fichiers de CodeSys ne sont pas vraiment utilisables pour du versioning vu que ce ne sont pas des fichiers textes brutes comme les fichiers de C#.

## Interaction avec la base de données

Le programme C# utilise le connecteur MySQL 6.1 qui est ajouté comme référence dans le projet Visual Studio. Ci-dessous sont expliqués toutes les fonctions et structures de la classe DBManager qui est utilisée pour tout ce qui concerne la base de données.

### Variables membres

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| MySqlConnection | *Conn* | Objet qui se connecte à la BD |
| string | *Caller* | Nom de la classe à intégrer dans les logs |
| string | *Host* | Hôte qui met à disposition la BD |
| string | DatabaseName | Nom de la BD à utiliser |
| string | *UserName* | Nom d’utilisateur qui a les droits d’écriture et de lecture sur la BD |
| String | *Password* | Mot de passe pour l’utilisateur de la BD |

### Structure Lot

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| int | *ID* | Identifiant du lot |
| string | *Nom* | Nom du lot |
| DateTime | *DateCreation* | Date de création du lot |
| DateTime | *DateButoir* | Date butoir du lot |
| int | *Quantite* | Quantité de pièces à produire |
| int | *QuantiteAtteinte* | Quantité de pièces déjà produites |
| int | *RecetteID* | Identifiant de la recette utilisée par le lot |
| int | *StatusID* | Identifiant du statut actuel du lot |

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| int | *ID* | Identifiant de l’événement |
| string | *Message* | Message de l’événement |
| DateTime | *DateTime* | Date et heure auxquelles l’événement est survenu |
| int | *LotID* | Identifiant du lot qui a généré l’événement |

### Structure Evenement

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| int | *ID* | Identifiant de l’opération |
| int | *Numero* | Numéro de l’opération |
| int | *Position* | Position à laquelle l’automate doit aller durant cette opération (1-5) |
| int | *Temps* | Le temps d’attente en secondes pendant l’opération |
| string | *Description* | Description de l’opération |
| bool | *Quittance* | Si une quittance est demandée à cette opération |
| int | *RecetteID* | Identifiant de la recette à laquelle l’opération appartient |

### Structure Operation

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| int | *ID* | Identifiant du statut |
| string | *Etat* | Description de l’état du statut |

### Structure Status

### Structure Recette

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| int | *ID* | Identifiant de la recette |
| string | *Nom* | Nom de la recette |

### Structure LotFilterParameters

Cette structure est utilisée pour transmettre en un paramètre tous les paramètres de filtrage de lots qui sont utilisés dans la fenêtre “Traçabilité des lots”.

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| bool | *UseDateFilter* | Si l’utilisation des filtres sur les dates sont demandés ou pas |
| DateTime | *Start* | Début de la plage de recherche par date |
| DateTime | *End* | Fin de la plage de recherche par date |
| DateFilterOptions | *DateFilterOptions* | Si le filtre de date est appliqué sur la date de création ou la date butoir |
| StateFilterOptions | *StateFilter* | Quel statut est utilisé pour filtrer par statut |

### Structure EventFilterParameters

Cette structure est utilisée pour transmettre en un paramètre tous les paramètres nécessaires pour filtrer les événements. Cette structure est principalement utilisée dans la fenêtre “Evénements”.

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| bool | *UseDateFilter* | Si l’utilisation des filtres sur les dates est demandée ou pas |
| DateTime | *Start* | Début de la plage de recherche par date |
| DateTime | *End* | Fin de la plage de recherche par date |
| bool | *UseLotFilter* | Si le filtre par lot est demandé ou pas |
| int | *LotID* | Identifiant du lot pour lequel les événements sont demandés |

### Enuméré StateFilterOptions

Cette énumération est utilisée dans *LotFilterParameters* pour définir les différents statuts par lesquels on peut filtrer des lots. Cet énuméré contient :

* *all* : accepter tous les statuts
* *finished* : fini
* *waiting* : en attente
* *inProduction* : en production
* *open* : ouvert

### Enuméré DateFilterOptions

Cette énumération est utilisée dans *LotFilterParameters* pour définir sur quel champ de date le filtre doit être appliqué.

* *dateCreation* : filtrer sur la date de création
* *dateButoir* : filtrer sur la date butoir

### Fonction DBManager

**Description :**

Créer l’objet DBManager et instancie ses variables membres.

**Paramètres :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| string | *host* | Adresse de l’hôte (adresse IP ou nom) |
| string | *databaseName* | Nom de la base de données à utiliser |
| string | *userName* | Nom d’utilisateur qui a accès à la BD |
| string | *password* | Mot de passe pour l’utilisateur |

### Fonction OpenConnection

**Description :**

Ouvre la connexion à la BD et instancie la variable membre *Conn*.

### Fonction CloseConnection

**Description :**

Ferme la connexion à la BD.

### Fonction GetLotByID

**Description :**

Retourne le Lot correspondant à l’ID.

**Paramètre(s) :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| int | id | Identifiant du lot demandé |

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| Lot | Le lot demandé |

### Fonction GetEvenementByID

**Description :**

Retourne l’événement correspondant à l’ID.

**Paramètre(s) :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| int | id | Identifiant de l’événement demandé |

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| Evenement | L'événement demandé |

### Fonction GetStatusByID

**Description :**

Retourne le statut correspondant à l’ID.

**Paramètre(s) :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| int | id | Identifiant du statut demandé |

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| Status | Le statut demandé |

### Fonction GetOperationByID

**Description :**

Retourne l’opération correspondant à l’ID.

**Paramètre(s) :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| int | id | Identifiant de l’opération demandée |

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| Operation | L'opération demandée |

### Fonction GetRecetteByID

**Description :**

Retourne le statut correspondant à l’ID.

**Paramètre(s) :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| int | id | Identifiant de la recette demandée |

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| Recette | La recette demandée |

### Fonction GetLotCount

**Description :**

Retourne le nombre total de lots.

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| int | Le nombre de lots |

### Fonction GetEvenementCount

**Description :**

Retourne le nombre total d’événements.

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| int | Le nombre d’événements |

### Fonction GetStatusCount

**Description :**

Retourne le nombre total de statuts.

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| int | Le nombre de statuts |

### Fonction GetOperationCount

**Description :**

Retourne le nombre total d’opérations.

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| int | Le nombre d’opérations |

### Fonction GetRecetteCount

**Description :**

Retourne le nombre total de recettes.

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| int | Le nombre de recettes |

### Fonction GetAllRecette

**Description :**

Retourne toutes les recettes présentes dans la BD.

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| List<Recette> | Liste de toutes les recettes |

### Fonction GetAllLots

**Description :**

Retourne tous les lots présents dans la BD.

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| List<Lot> | Liste de tous les lots |

### Fonction GetAllOperByRecID

**Description :**

Retourne toutes les opérations qui font parties de la recette donnée.

**Paramètre(s) :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| int | recID | Identifiant de la recette souhaitée. |

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| List<Operation> | Liste de toutes les opérations |

### Fonction UpdateOperation

**Description :**

Met à jour l’opération dans la base de données.

**Paramètre(s) :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| Operation | operation | Opération à mettre à jour |

### Fonction UpdateRecetteName

**Description :**

Met à jour le nom de la recette souhaitée.

**Paramètre(s) :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| Recette | recette | Recette à mettre à jour |
| string | name | Nouveau nom pour la recette |

### Fonction CreateLot

**Description :**

Crée le lot dans la base de données.

**Paramètre(s) :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| Lot | lot | Lot à créer dans la BD |

### Fonction CreateRecette

**Description :**

Crée la recette souhaitée dans la base de données.

**Paramètre(s) :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| Recette | recette | Recette à créer |

### Fonction IsRecetteInUse

**Description :**

Vérifie dans la base de données si une recette est déjà utilisée dans un lot qui n’est pas ouvert.

**Paramètre(s) :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| Recette | recette | Recette à vérifier |

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| bool | Si la recette est utilisée |

### Fonction GetFilteredLots

**Description :**

Cherche dans la base de données tous les lots qui correspondent aux filtres donnés.

**Paramètre(s) :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| LotFilterParameters | filterParameters | Les filtres sur lesquels les lots seront filtrés |

**Retour(s) :**

|  |  |
| --- | --- |
| **Type** | **Description** |
| List<Lot> | Listes des lots qui correspondent aux filtres |

### Fonction GetFilteredEvenements

**Description :**

Cherche dans la base de données tous les événements qui correspondent aux filtres donnés.

**Paramètre(s) :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| EvenetFilterParameters | filterParameters | Les filtres sur lesquels les événements sont filtrés |

**Retour(s) :**

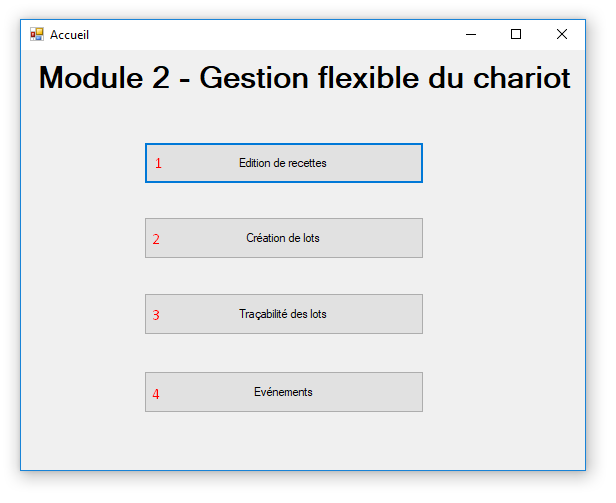
|  |  |
| --- | --- |
| **Type** | **Description** |
| List<Evenement> | Listes des lots qui correspondent aux filtres |

## Structure du code

Tout le code est écrit en respectant les règles standards de C#. Les commentaires contiennent les balises nécessaires pour créer la documentation en fichier XML.

## Accueil

### Interface



* Bouton permettant de se rendre sur la page « Edition de recettes ». (**1**)
* Bouton permettant de se rendre sur la page « Création de lots ». (**2**)
* Bouton permettant de se rendre sur la page « Traçabilité des lots ». (**3**)
* Bouton permettant de se rendre sur le page « Evénements ». (**4**)
* Bouton permettant de quitter le programme. (Croix fermeture fenêtre)

### Fonctionnement

Ce menu est fait de manière très simple et nécessite une fonction *GoToForm(From frm)* qui prend en paramètre la fenêtre à afficher.

### Fonction GoToForm

**Description :**

Affiche la page qu’on lui donne en paramètre. Si cette page se ferme, la page d’accueil s’ouvrira automatiquement.

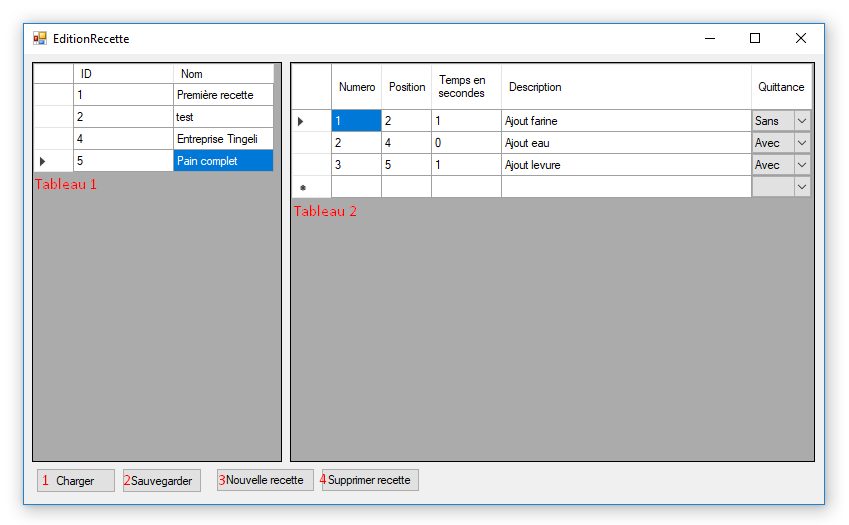
**Paramètre(s) :**

|  |  |  |
| --- | --- | --- |
| **Type** | **Nom** | **Description** |
| Form | frm | Page à afficher |

## Edition recette

Cette page permet de consulter, modifier et de créer de nouvelles recettes qui peuvent être utilisées dans les lots par la suite. Le tableau de gauche affiche toutes les recettes disponibles et celui de droite affiche les étapes de la recette chargée.

### Interface



* Un champ de saisie pour le nom de la recette. (Inclus dans le **tableau 1**)
* Un tableau de saisie contenant les lignes pour la recette. (**Tableau 2**)
* Un champ de saisie pour la position souhaitée du chariot. (Inclus dans le **tableau 2**).
* Un champ de saisie pour le temps d’attente à la position souhaitée. (Inclus dans le **tableau 2**).
* Un champ de saisie pour la description de l’opération. (Inclus dans le **tableau 2**).
* Un champ de saisie pour savoir s’il faut une quittance après l’opération. (Inclus dans le **tableau 2**)
* Un bouton « charger » permettant de charger la recette sélectionnée dans le tableau 1. (**1**)
* Un bouton « Sauvegarder » permettant de sauvegarder toutes les modifications faites à la recette chargée. (**2**)
* Un bouton « Nouvelle recette » permettant d’ajouter une nouvelle recette vide dans la liste qui sera directement ajoutée dans la base de données. (**3**)
* Un bouton « Supprimer recette » qui supprime la recette sélectionnée dans le tableau 1 uniquement si celle-ci n’est pas utilisée dans un lot. (**4**)

### Fonctionnement

**Chargement d’une recette :**

Dès que le bouton charger (**1**) est cliqué et qu’une recette est sélectionnée dans le **tableau 1**, l’identifiant de la case va être pris pour charger toutes les opérations et les afficher dans le **tableau 2**.

La recette chargée devient automatiquement la recette active.

Si la recette est en utilisation dans un lot qui n’est pas ouvert, le tableau se met en lecture seule.

**Sauvegarde d’une recette :**

Dès que le bouton sauvegarder (**2**) est cliqué, il y a une vérification sur de potentielles modifications de la recette active et si c’est le cas, les sauvegarder dans la base de données.

**Création d’une nouvelle recette :**

Pour éviter des problèmes pendant l’enregistrement. Dès que le bouton nouvelle recette (**3**) est pressé, la recette est directement créée dans la base de données.

La recette est ensuite directement ajoutée à la liste locale de recettes et attribuée comme recette active.

**Suppression d’une recette :**

Lors de la suppression d’une recette, il faut d’abord vérifier si elle n’est pas utilisée dans un lot. Si ce n’est pas le cas elle peut être supprimée sans problème.

Ensuite les recettes sont rechargées et l’affichage est mis à jour pour éviter des désynchronisations entre le programme et la base de données.

**Modification d’une recette :**

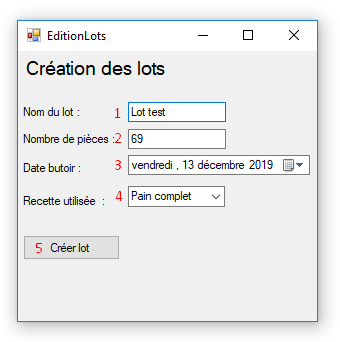
Tant qu’une recette est utilisée uniquement dans des lots ouverts, la modification du **tableau 2** reste possible.

A chaque fois qu’un champ est modifié dans le tableau, la valeur modifiée est ajoutée dans la liste des valeurs changées.

## Edition lot

Cette page est un formulaire pour créer un nouveau lot et l’ajouter ensuite à la base de données.

### Interface



* Un champ de saisie pour le nom du lot. (**1**)
* Un champ de saisie pour connaître la quantité souhaitée de pièces (cycles). (**2**)
* Un champ de saisie pour la date butoir. (**3**)
* Un champ de saisie pour la recette. (**4**)
* Un bouton pour valider la création du lot. (**5**)

### Fonctionnement

**Création du lot :**

Quand le bouton *créer lot (****5****)* est pressé, il faut d’abord vérifier si toutes les données entrées sont correctes, ensuite le nouveau lot est sauvegardé dans la base de données.

**Vérification des données :**

Avant la création d’un lot, une vérification complète des données est effectuée. Voici les étapes de la vérification :

* Que le texte dans *Nom du lot (****1****)* ne soit pas nul.
* Que le *Nombre de pièces (****2****)* soit un nombre positif.
* Qu’une recette soit sélectionnée.

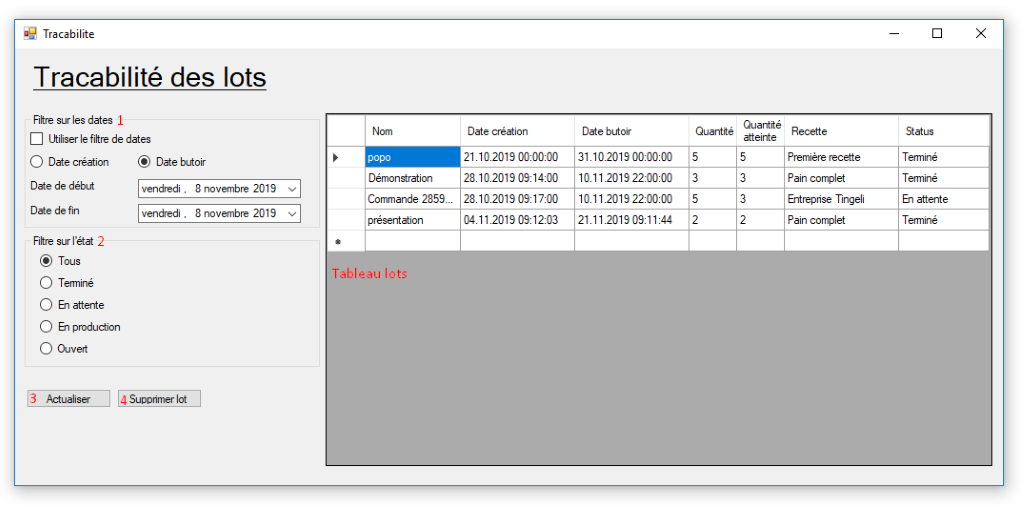
Si une étape de la vérification échoue, un message d’erreur personnalisé est affiché.

Si la vérification n’a pas trouvé d’erreurs, elle créé un nouvel objet *Lot* et l’envoi à la fonction *CreateLot.*

## Traçabilité des lots

Cette page permet d’afficher tous les lots avec le nom, la date de création, la date butoir, la quantité à produire, la quantité produite, la recette utilisée et le statut.

### Interface



* Un tableau affichant tous les lots filtrés. (**Tableau lots**)
* Un champ affichant le nom du lot. (**Tableau lots**)
* Un champ affichant le numéro du lot. (**Tableau lots**)
* Un champ affichant la date de création du lot. (**Tableau lots**)
* Un champ affichant la date butoir du lot. (**Tableau lots**)
* Un champ affichant la quantité souhaitée de pièces (cycles). (**Tableau lots**)
* Un champ affichant la quantité réalisée de pièces (cycles). (**Tableau lots**)
* Filtres sur les dates. (**1**)
* Filtres sur l’état du lot. (**2**)
* Bouton « Actualiser » permettant de mettre à jour le tableau de lots en prenant en compte des filtres appliqués. (**3**)
* Bouton « Supprimer Lot » permettant de supprimer un lot uniquement s’il est ouvert ou terminé. (**4**)

### Fonctionnement

**Chargement / Actualisation :**

Dès que la page est chargée ou que le bouton *actualiser (****3****)* est pressé, la fonction *GetFilteredLots* est utilisée pour récupérer tous les lots qui correspondent aux filtres sélectionnés.

**Filtre sur les dates :**

Les filtres sur les dates sont uniquement actifs si la case *Utiliser le filtre de dates* est cochée. Le champ sur lequel le filtre s’applique est définit avec les boutons radios juste en dessous.

Pour ce filtre, il y a *Date de début* et *Date de fin.* Ces champs créent une plage sur laquelle sont filtrés les lots.

**Filtre sur l’état :**

Le filtre sur l’état est géré avec des boutons radios qui laissent choisir entre les états possibles d’un lot. Les lots qui ont un état correspondant à l’état sélectionné sera uniquement affichés.

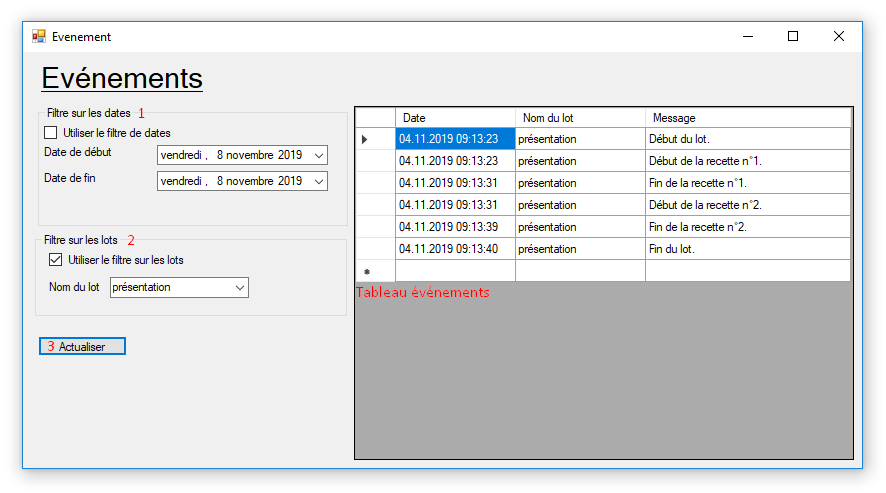
**Suppression de lot :**

Dès que le bouton *Supprimer lot* est cliqué, il faut d’abord vérifier que le lot soit encore ouvert. Des lots en production ne doivent sous aucun prétexte être supprimés.

## Page “Evénements”

Cette page permettra de voir tous les événements qui sont sauvegardés et de les filtrer soit, sur leur date butoir et date de création ou au lot auquel ils sont liés.

### Interface



* Un tableau affichant les événements survenus sur l’installation. (**Tableau événements**)
* Un champ affichant la date et l’heure de l’événement. (**Tableau événements**)
* Un champ affichant la description de l’événement. (**Tableau événements**)
* Un filtre sur les dates. On pourra choisir entre la date butoir et la date de création. Tous les événements affichés après avoir pressé sur « actualiser » seront entre les deux dates choisies. (**1**)
* Une liste déroulante pour pouvoir filtrer sur le nom du lot. Les événements qui proviennent du lot sélectionné seront uniquement affichés. (**2**)
* Un bouton permettant d’actualiser le tableau. (**3**)

### Fonctionnement

**Chargement / Actualisation :**

Quand la page s’ouvre ou que le bouton *actualiser (****3****)* est pressé, les paramètres de filtrage de la page sont pris et mis dans un *EventFilterParameter* avant d’être utilisés pour le gestionnaire de base de données dans la fonction *GetFilteredEvenements.*

Ensuite le tableau est vidé et les nouvelles données sont ajoutées.

**Filtre sur les dates :**

Comme pour la page *Traçabilité des lots,* si la case *Utiliser le filtre de dates* est cochée, le filtre prendra en compte les plages de dates définies en dessous. Elles seront ajoutées dans le *EventFilterParameter.*

**Filtre sur les lots :**

Dès que la case *Utiliser le filtre sur les lots* est cochée, lors de la prochaine actualisation, les événements provenant du lot sélectionné seront uniquement affichés. Cette page transforme les données pour les ajouter dans *EventFilterParameter.* Tout le filtrage se fait directement à la création de la requête SQL.