

System programming Project – Deliverable

- Deliverable 2: EasySave Graphical Version – UML Diagrams + User Documentation

Context of the project:

V1:

Your team has just joined the software publisher ProSoft.

Under the responsibility of the CIO, you will be responsible for managing the “EasySave” project which consists of developing backup software.

Like any software in the ProSoft Suite, the software will fit into the pricing policy.

- Unit price: 200 € HT

- Annual maintenance contract 5/7 8-17h (updates included): 12% purchase price (tacit renewal annual contract with revaluation based on the SYNTEC index)

During this project, your team will have to ensure the development, the management of the major and minor versions, but also the documentation (user and customer support).

V2:

EasySave v1.0 has been distributed to many customers.

Following a customer survey, the management decided to create a version 2.0 with the following improvements:

- 1- Graphical Interface
- 2- Backup works not limited.
- 3- Encryption of the backup data
- 4- Log file evolved.
- 5- Work software

Summary of the document :

- 1- UML Diagrams v2
- 2- UserDocumentation v2
- 3- Annexs
- 4- Meeting reports

1- UML Diagram v2

The following diagrams have been realised for the version v2.0 of “EasySave”, a few things have changed from the versions v1.0. The most important changes are on the classes diagram. You can find it on the previous deliverable.

Use case diagram v2:

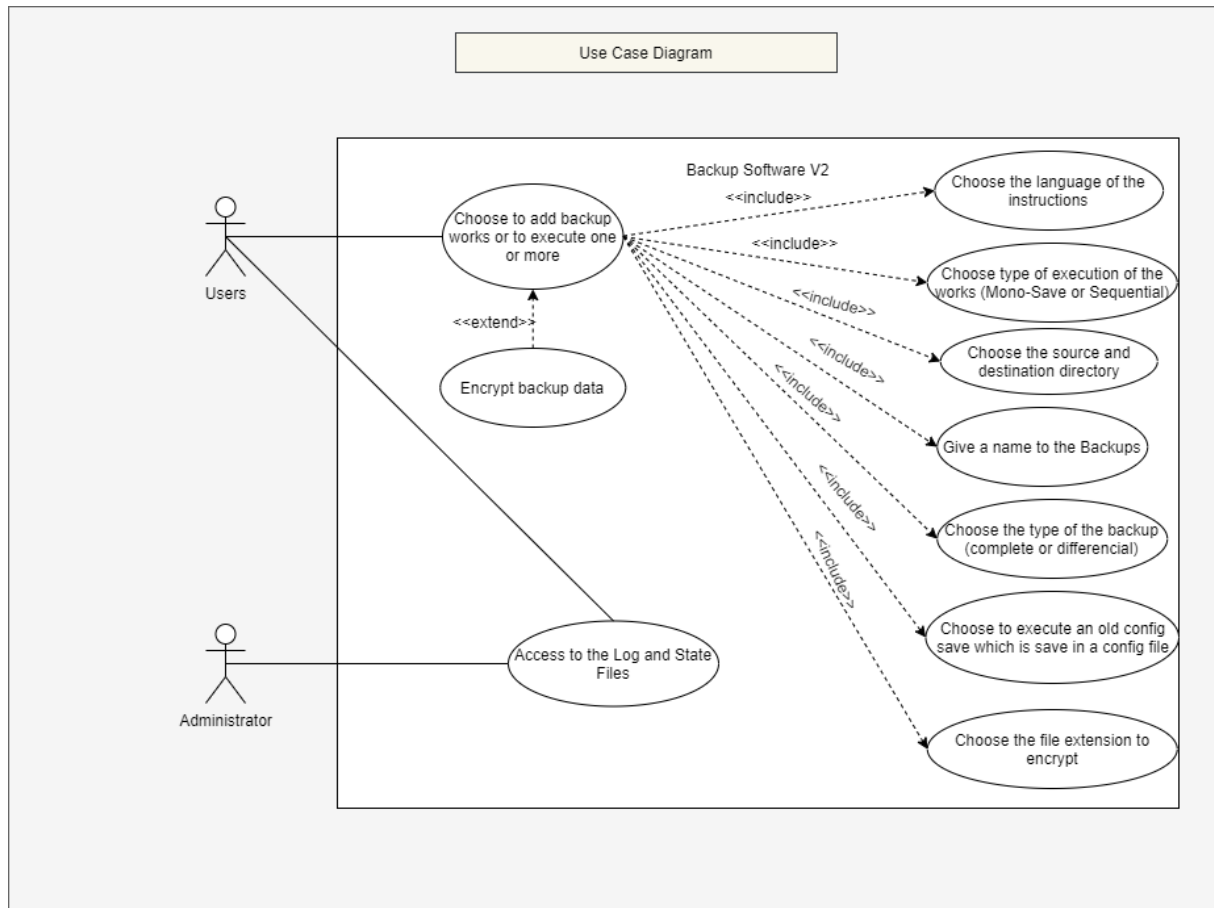


Figure 1 - Use Case Diagram v2.0

Sequences diagram v2:

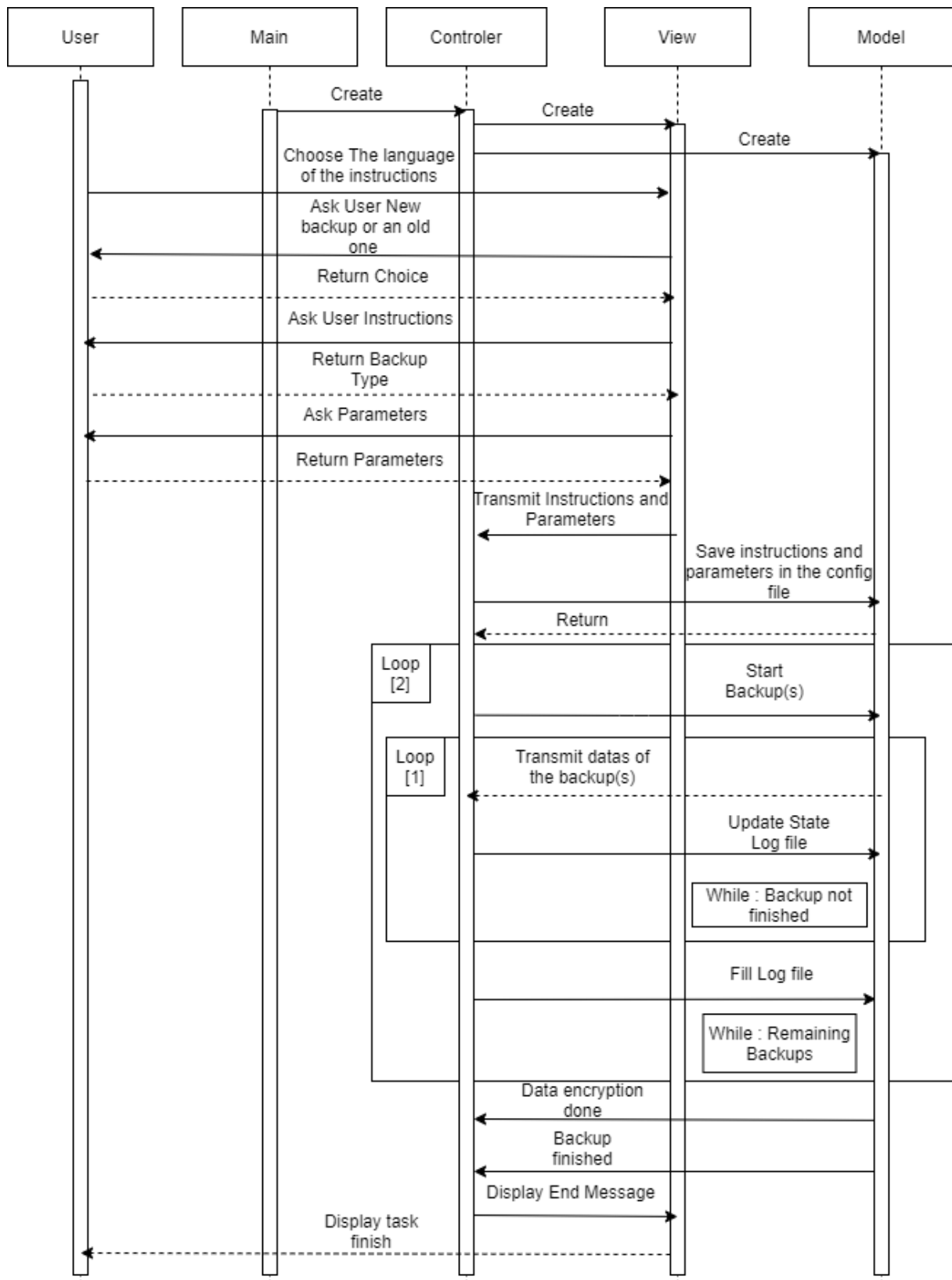


Figure 2 - Sequences Diagram v2.0

Activities diagram v2:

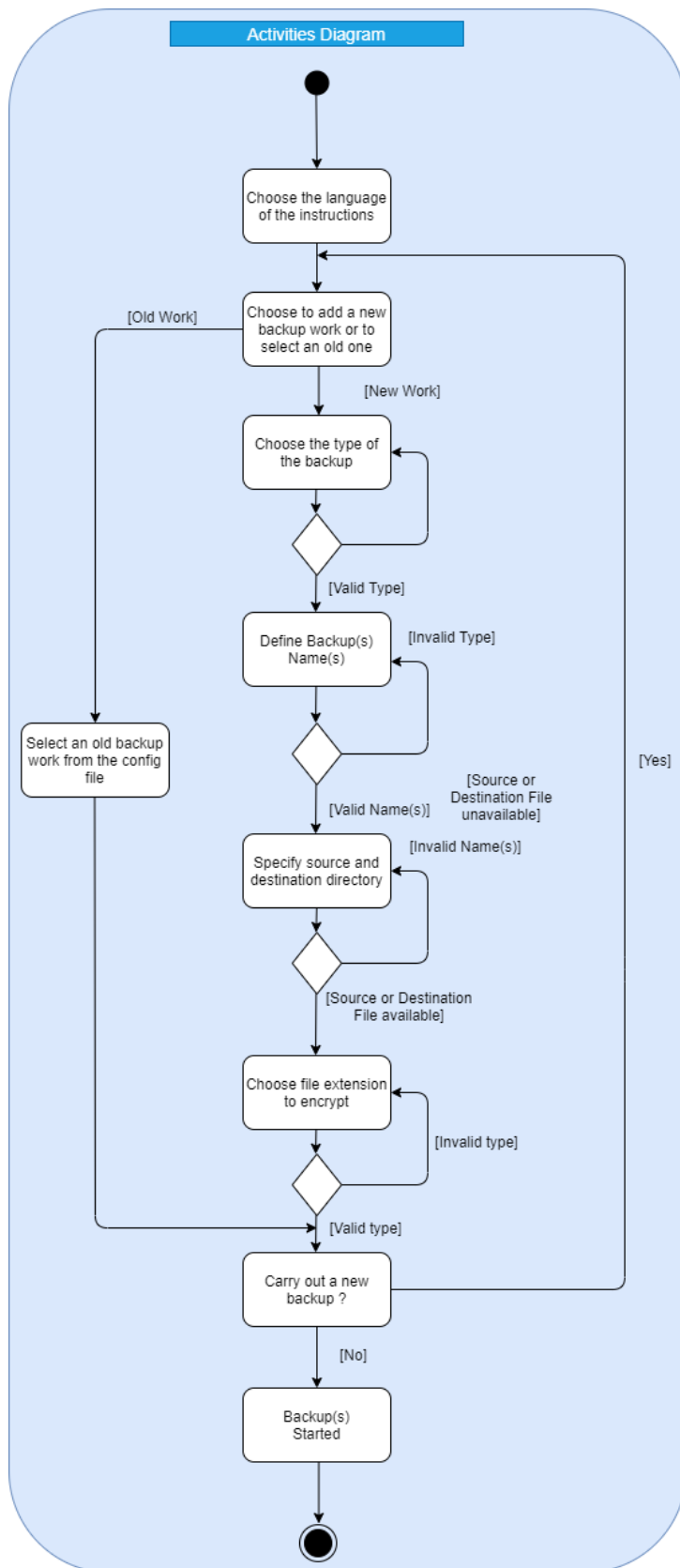


Figure 3 - Activities Diagram v2.0

Classes diagram v2:

You can find the Classes diagram in a good quality in the previous deliverable, cause the diagram has big dimensions and cannot be read correctly on a pdf document.

We have not carried out new modifications from the previous deliverable. We have planified good classes, methods so in conclusion we do not have to add modification.

Components diagram v2:

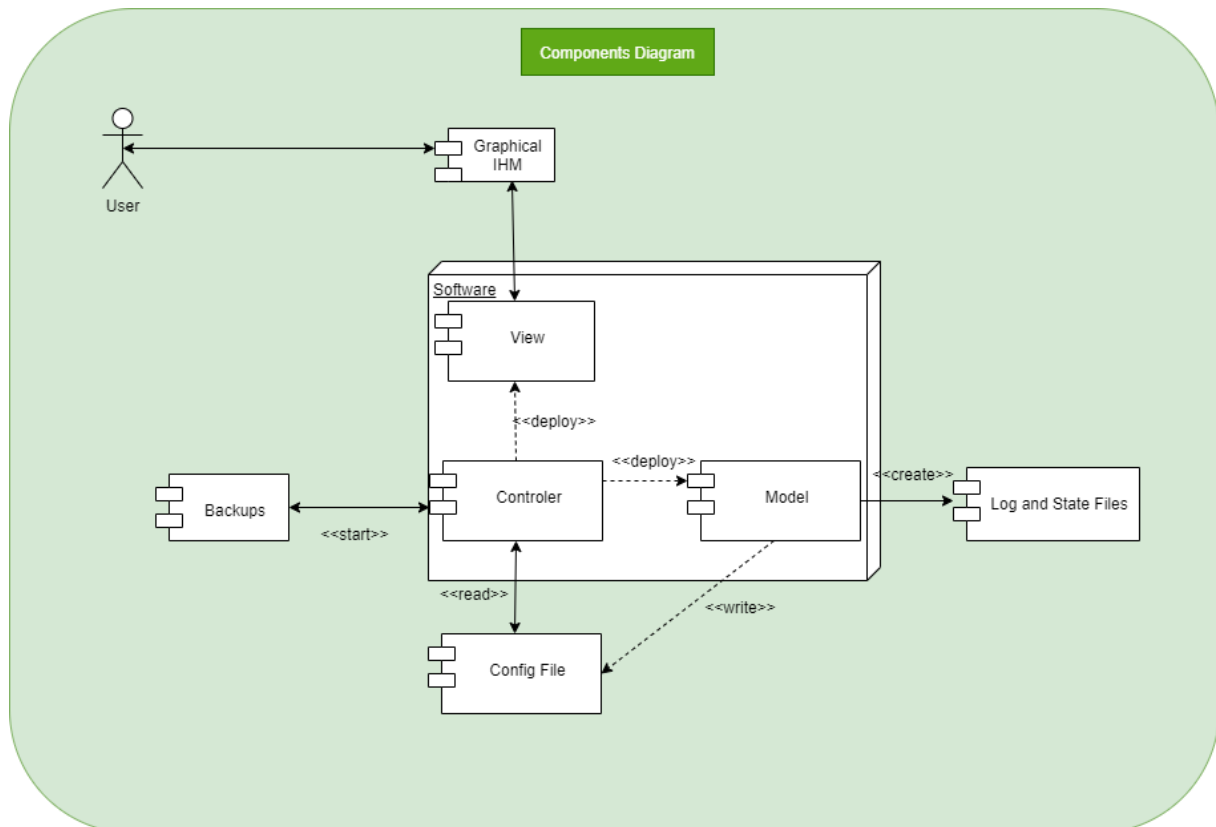


Figure 4 - Components Diagram v2.0

2- User Documentation v2

We finally finished to develop the v2 version of our software “EasySave”! In this part we will see how to use the new version of our software and the different functionality available on it.

We will start by the presentation of the graphical window.

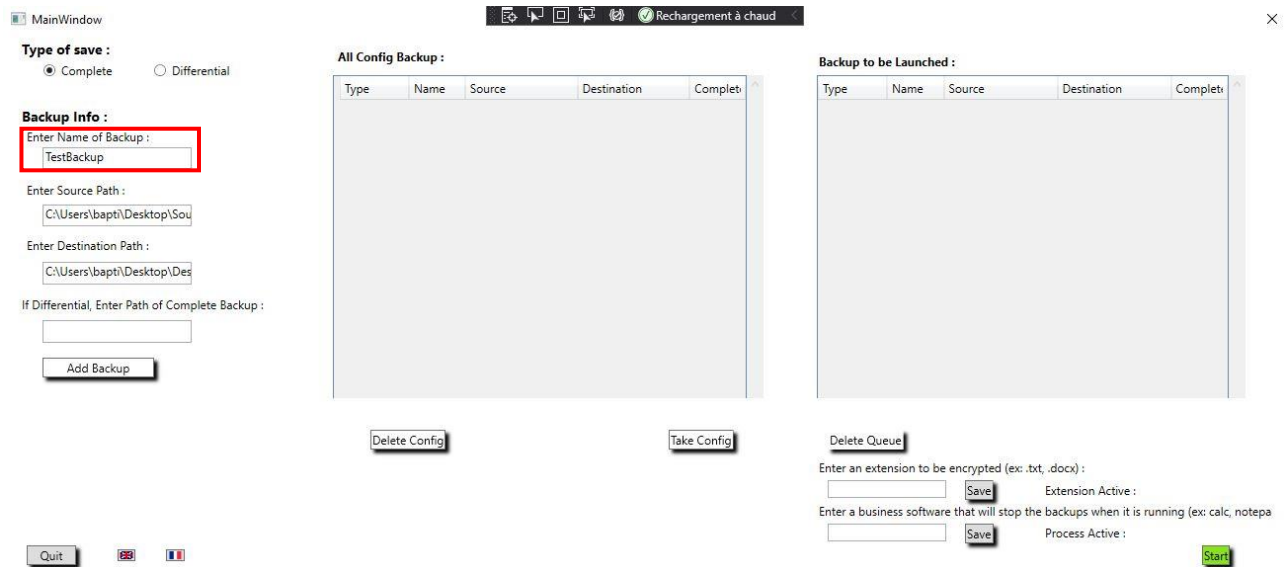


Figure 5 - MainWindow EasySave

There it is! You can see the new version of our software. The functionality available are:

1. Execute Complete or differential backup.
2. Add or Select a Backup to execute
3. Execute One or More Backups.
4. Encrypt file with the extension of your choice.
5. Define a process which cancel the backups when it is turns on.

We will now explain you how to execute a backup and use the different functionality.

Our backup presentation will be called: **TestBackup**

You must define the source path and the destination path of your save.

We want to execute a backup of the following directory:

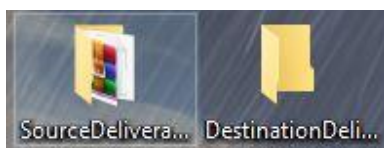


Figure 6 - Source And Destination folders

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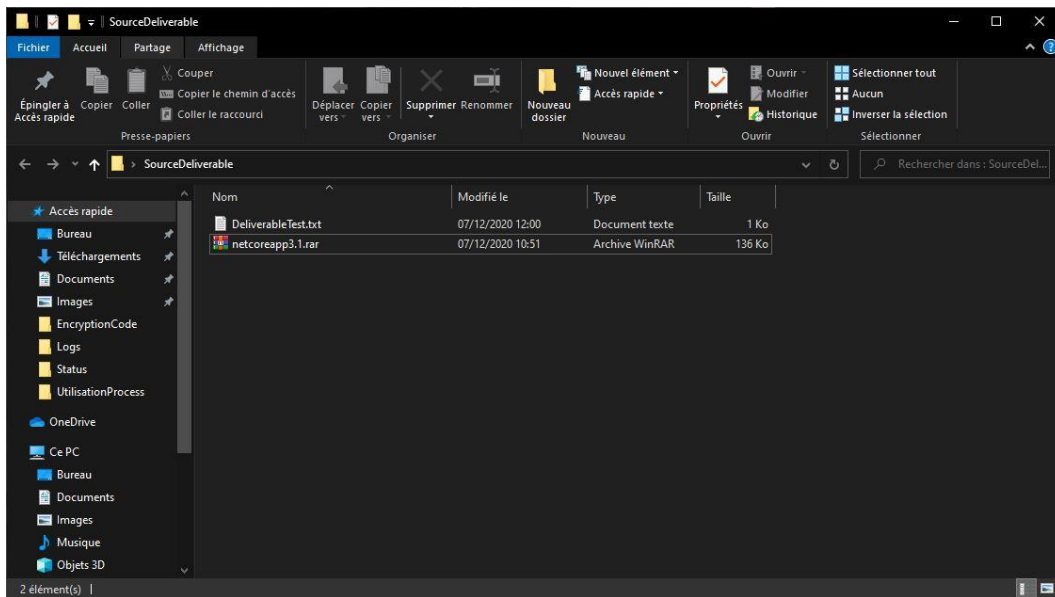


Figure 7 - Content of source folder

SourceDeliverable will be the directory to save, and DestinationDeliverable will be the location of the backup.

Below we can see the content of SourceDeliverable with his text file:

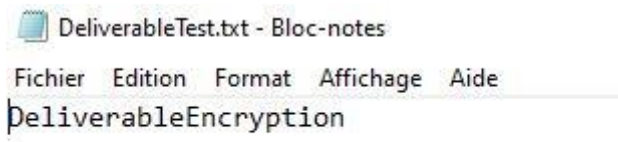


Figure 8 - Text to encrypt

The destination folder is empty:

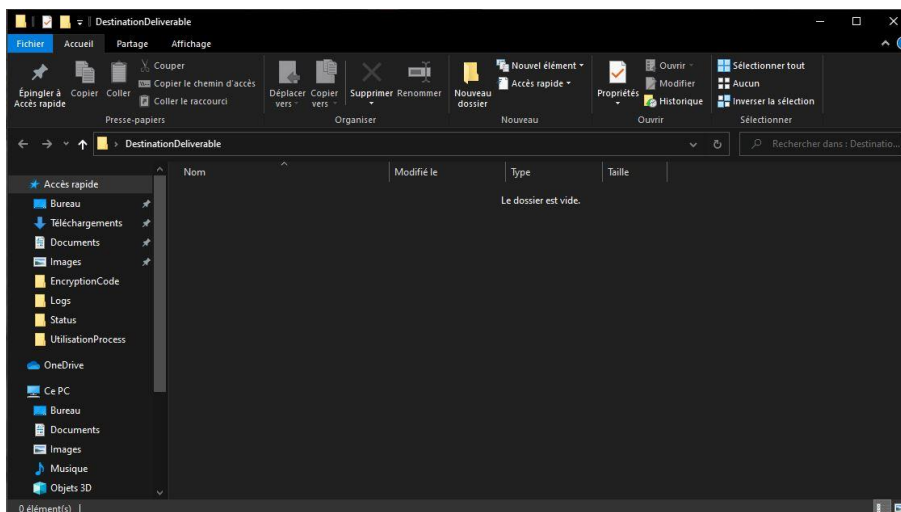


Figure 9 - Destination empty

Now we can start our backup!

In the page 6 we have define the name of the backup and the source and destination path, if you want to execute a differential backup, you must identify the path of the complete save.

Then we must click on “Add backup”.

Type of save :
☒ Complete ☐ Differential

Backup Info :
Enter Name of Backup :

Enter Source Path :

Enter Destination Path :

If Differential, Enter Path of Complete Backup :

All Config Backup :

Type	Name	Source	Destination	Comple
------	------	--------	-------------	--------

Sucess
The Complete Backup has been added to the list

Figure 10 - Added Backup

A pop-up will appear on your screen to confirm the addition of the backup.

After that we will be able to see our backup config in the menu:

All Config Backup :

Type	Name	Source	Destination	Comple
complete	TestBacku	C:\Users\bapti\Desk	C:\Users\bapti\Desk	

Backup to be Launched :

Type	Name	Source	Destination	Comple
------	------	--------	-------------	--------

Enter an extension to be encrypted (ex: .txt, .docx) :
 Extension Active : ☐

Enter a business software that will stop the backups when it is running (ex: calc, notepa)
 Process Active : ☐

Figure 11 - Config Backups

And then we can add another backup config or choose to execute the config and/or add an encryption on the file which got the extension define [there](#). In our test we will choose to encrypt a .txt file.

Backup to be Launched :

Type	Name	Source	Destination	Complet
complete	TestBacku	C:\Users\bapti\Desk	C:\Users\bapti\Desk	

Delete Queue

Enter an extension to be encrypted (ex: .txt, .docx) :

Save

Extension Active : .txt

Enter a business software that will stop the backups when it is running (ex: calc, notepa

Save

Process Active :

Start

Figure 12 - Backup ready to be start

We have added the backup for execution with button “Take Config” and we have saved the extension for encryption. We can also choose a Process which will interrupt the backup if he is turned on. None will be defined in this test.

And now we just must press “Start”.

This is the result:

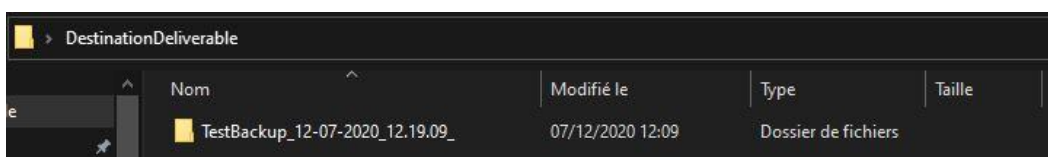


Figure 13 - Backup Done Destination Folder

The backup has been correctly done, let us check all the files for confirmation.

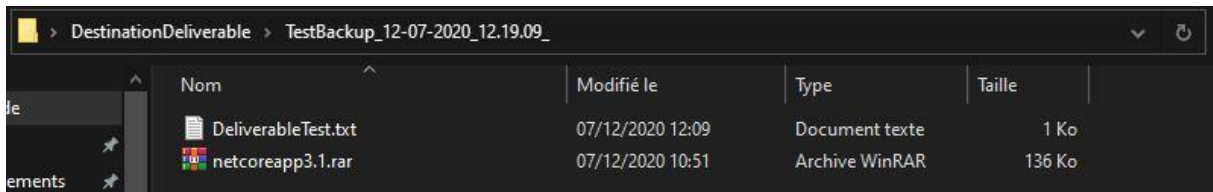


Figure 14 - Content of the save

The .rar file and .txt are present, we must verify if the encryption have correctly been done:

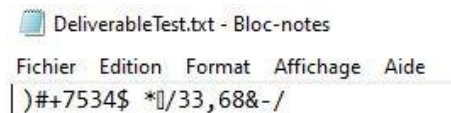


Figure 15 - Text encrypted

The encryption has perfectly been done.

Now let us look at the state and log file.

```
{
  "Timestamp": "12-07-2020_12.19.09_",
  "NameOfSave": "TestBackup",
  "SourcePath": "C:\\Users\\bapti\\Desktop\\SourceDeliverable",
  "DestinationPath": "C:\\Users\\bapti\\Desktop\\DestinationDeliverable",
  "SizeOfSave": 138626,
  "TransfertTime": "00:00:00.1744387",
  "TimeEncryptionTransfert": 0.0099496
}
```

Figure 16 - Log file filled



Figure 17 - State file filled

We have finished the presentation! I hope our software will be useful to you or your company and we are ready to prepare another version of “EasySave”!

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Meeting reports:

Only one meeting has been done this week, the report is on the next page. The meeting report is in French.

Meeting Report 1

Participants : FAVIER Paulin, HIBERT Florian et GUILLEMET Baptiste

Date et Horaire de réunion :

07/12/2020 : 8h00 – 12h00

Sujet abordés :

Mise en commun des différents systèmes développés depuis la dernière réunion à l'oral.

Paulin et Florian ont travaillé et on mit en communs leurs travaux dans un premier temps – Interface Graphique + ajouts de différentes fonctionnalités comme par exemple le fichier de config des sauvegardes, le processus métier, etc...

Baptiste a effectué dans un premier temps en fin de semaine la réalisation du livrable de présentation des diagrammes UML de la version v1.1 et v2.0 ainsi que le développement de Crypto Soft et son intégration dans le code.

Enfin mise en commun de toutes les parties du logiciel et intégration des finalisations, correction des fautes d'orthographe, ajout de commentaires, etc.

Début de la finalisation du livrable pour la documentation utilisateur à rendre pour le soir du 07/12/2020.

Enfin mise en place de phase de tests par tout le groupe afin de valider le rendu du projet, et de vérifier que des erreurs ne se soient pas glissées dans le programme.

Validation du projet à 12h00.

Rédaction et mise à disposition des programmes, du GitHub et de ce livrable pour le tuteur et les utilisateurs de « EasySave ».