

Programmation system project – Deliverable

- Deliverable 1: Work Environment and project management

Context of the project:

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).

Summary of the document :

- 1- UML Diagrams
- 2- User Guide
- 3- Annexs
- 4- Meeting Reports

1- UML Diagram :

We have seen in the previous deliverable, that we have made 5 diagrams. These diagrams allow us to have a good idea of the architecture of the future code and to have a line to follow for building our software.

To remind you from the last deliverable,

We have realised 5 diagrams:

- Use Case Diagram
- Sequences Diagram
- Activities Diagram
- Classes Diagram
- Components Diagram

Use case Diagram :

This diagram is one the most important diagram that we need to create for our development, we have here a global idea of the use case of our future software. Nothing has changed from the previous one.

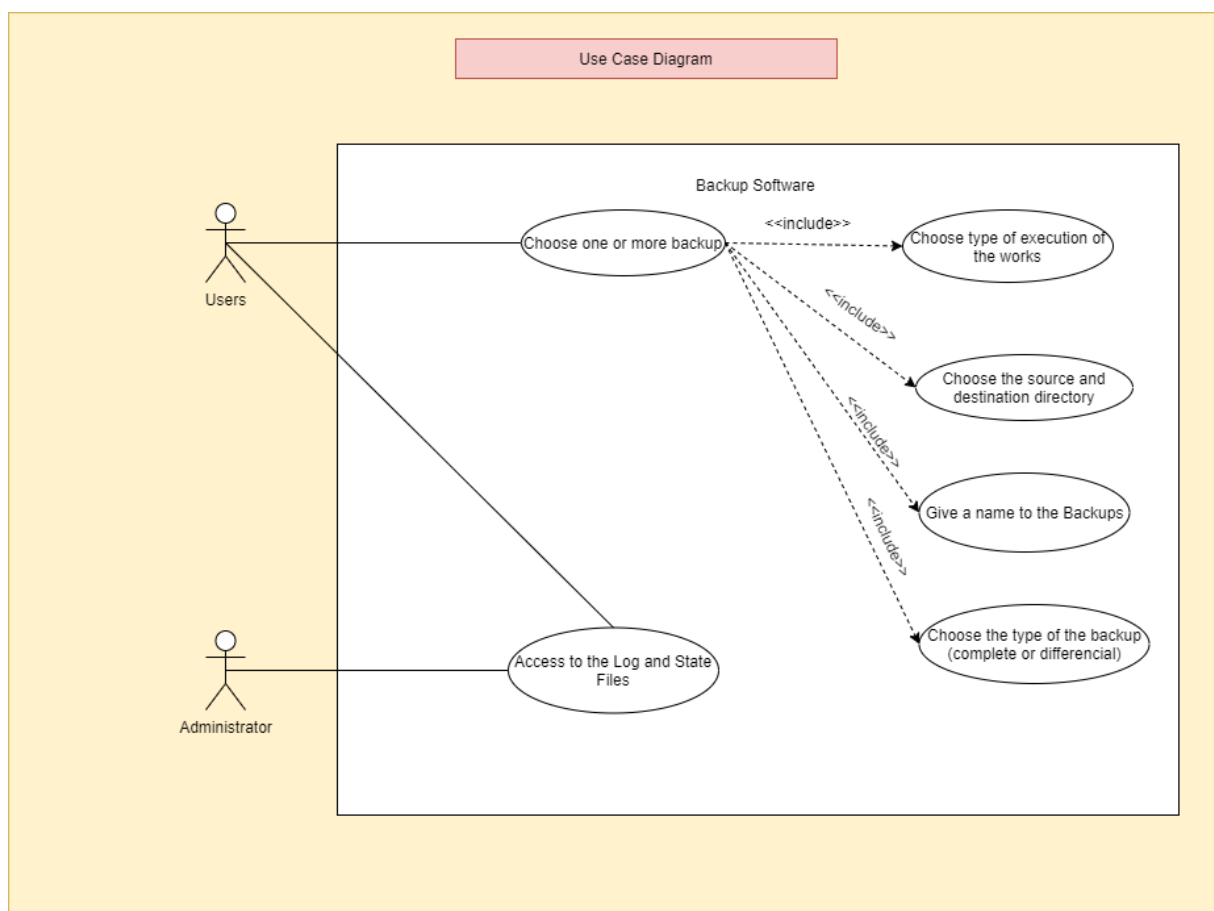


Figure 1 - Use Case Diagram

Sequences Diagram:

This diagram has not changed from the previous deliverable, the sequences are still the same as we can see.

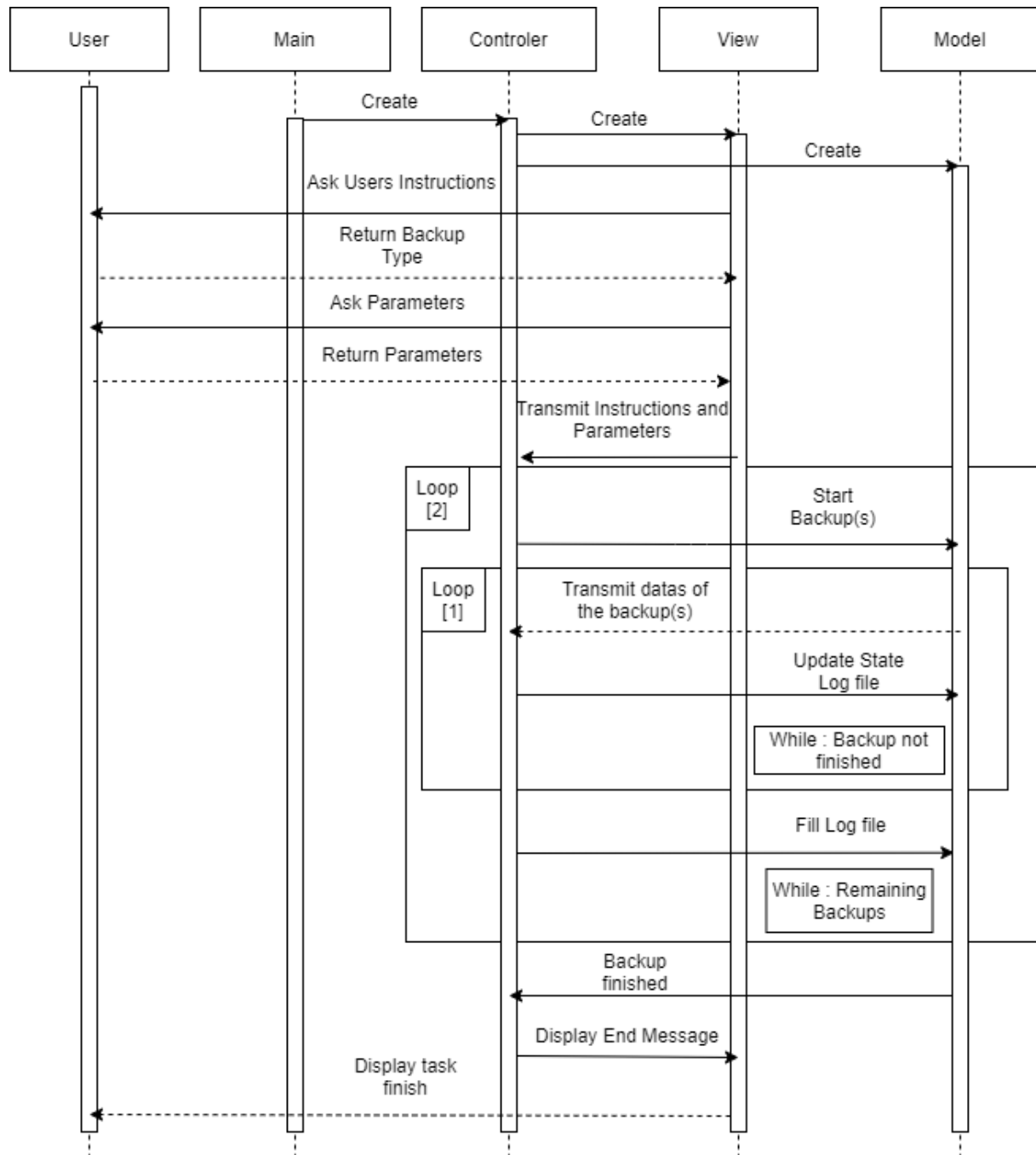


Figure 2 - Sequences Diagram

Activities Diagram:

The activities diagram has not changed too, we think that this one does not need to be changed and will still be the same.

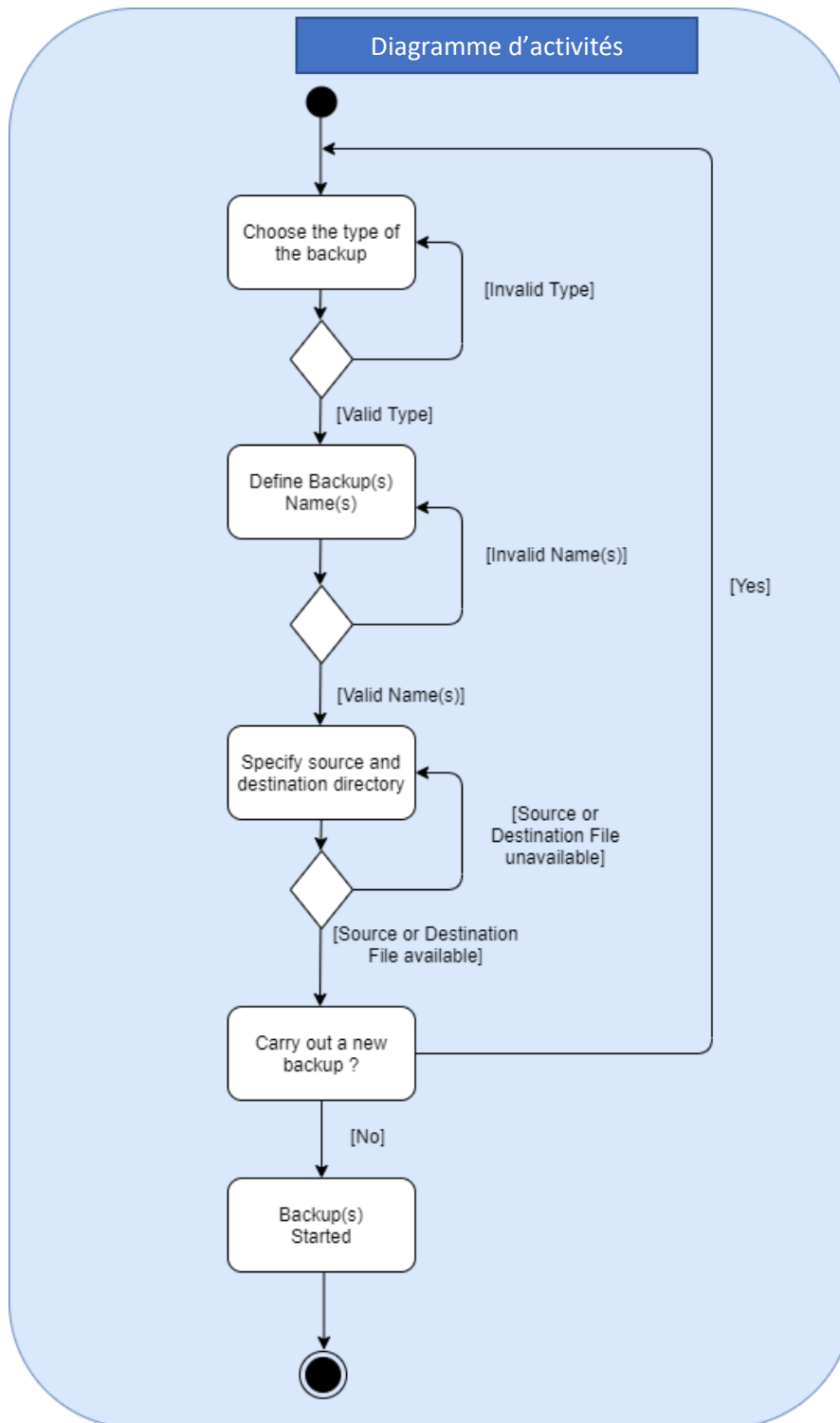


Figure 3 - Activities Diagram

Classes Diagram:

We can find here some changes on the classes diagram. We have deleted some methods of some classes and we have added methods to specific classes. We also have added some classes in our diagram:

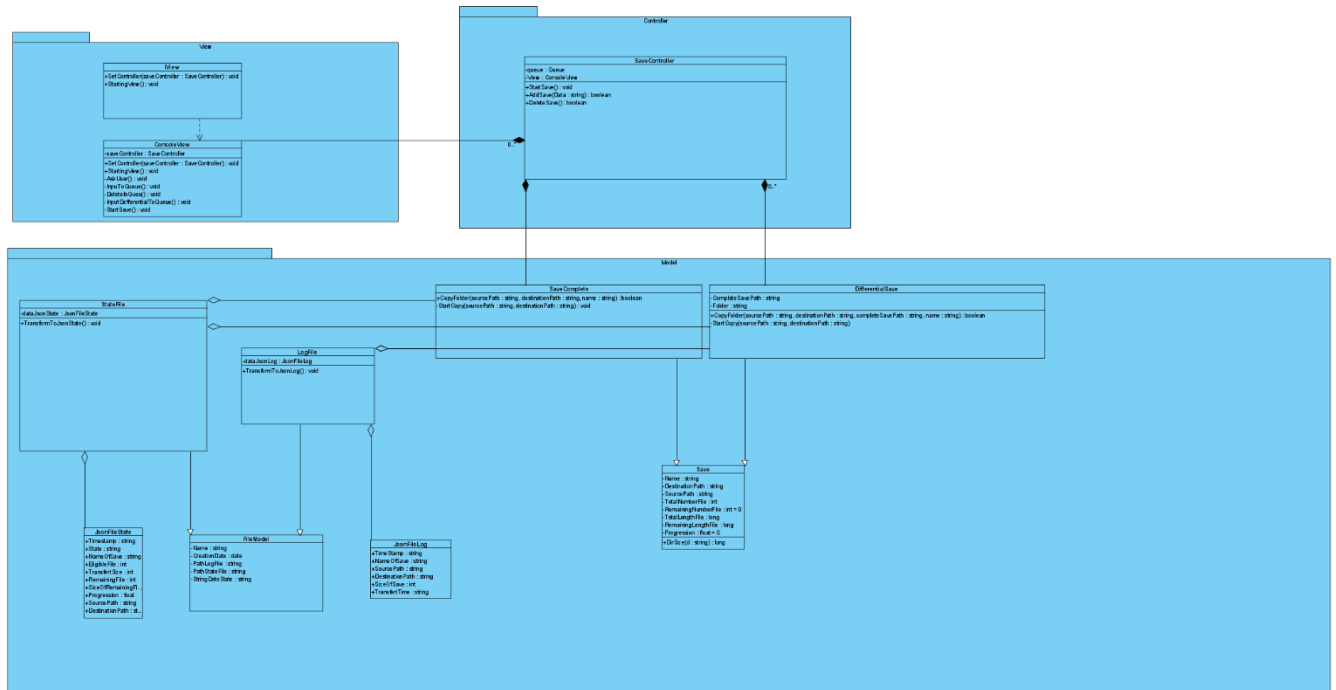


Figure 4 - Classes Diagram

On this Diagram we have the same problem that the previous one. We do not have the professional Visual Paradigm so we cannot export the file in PDF, we must take a screen picture and the quality is a bit blurry. You can zoom for a better preview of the diagram.

Components Diagram :

Finally no changes in this Diagram too. He is the same from the previous deliverable.

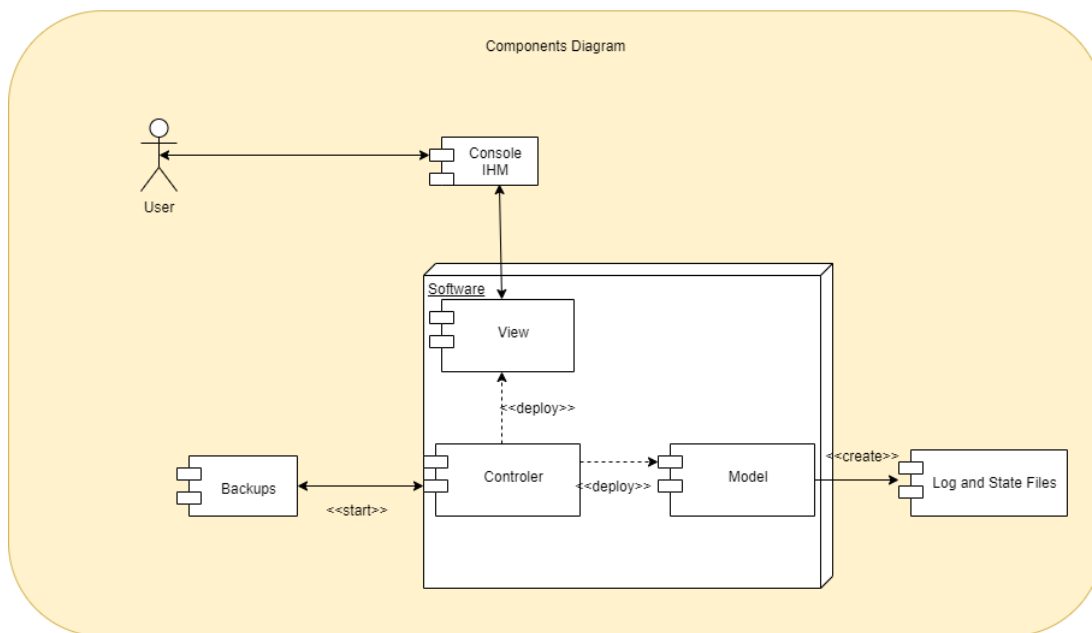


Figure 5 - Components Diagram

User guide :

Now we will start the user guide! In this part I will describe you how to use to IHM console interface to save your files with our software “EasySave”.

In a first time, we will see how the main program is made and, we will look at the execution of the backup.

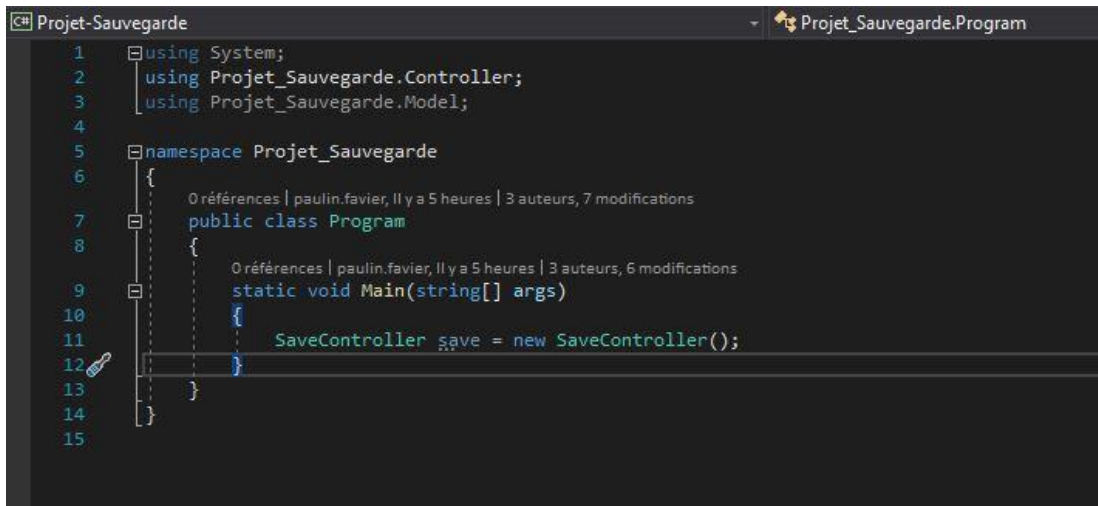


Figure 6 - Main Program

Here we can see, the start of our program. We have seen it in the last point but for a quick explanation, the controller is turned on to execute the orders of our program and then to create our software.

The first step for using the software is to execute the program. Next you will see this window appeared on your screen:

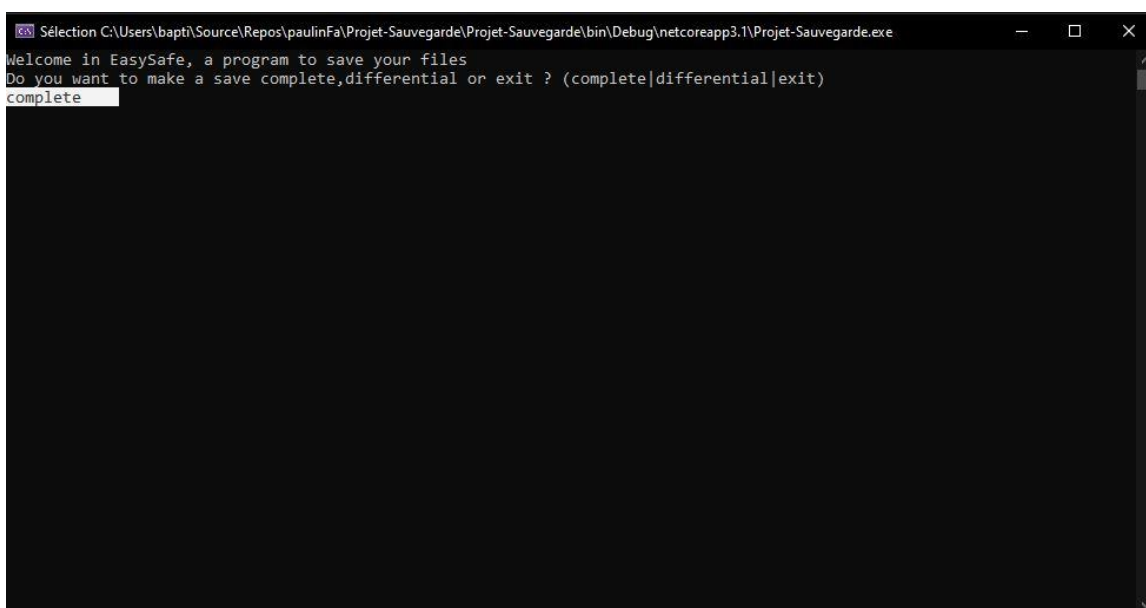
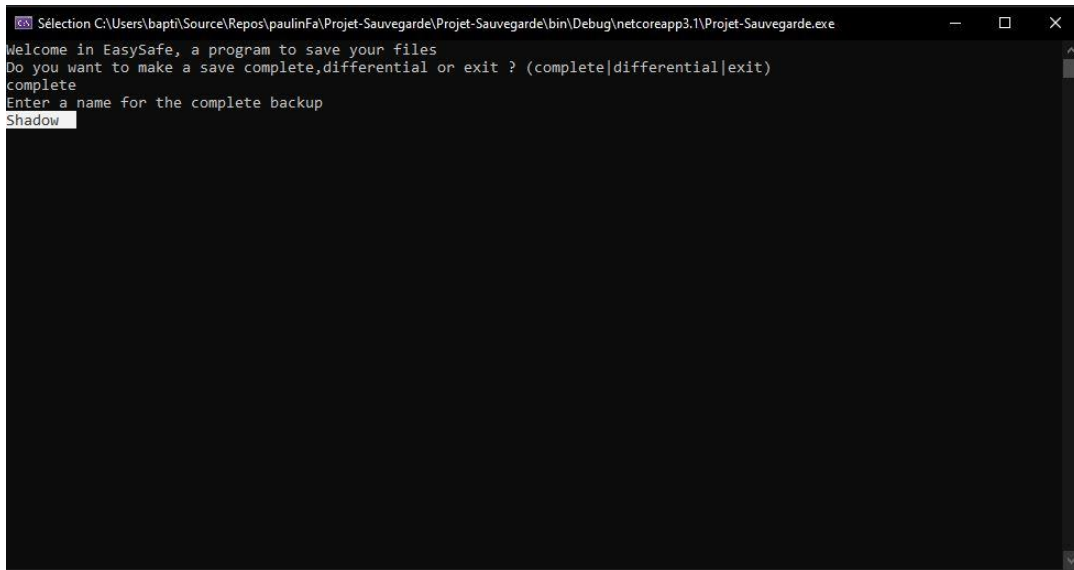


Figure 7 - Program Execution 1

With this window you will have to choose the backup type of your choice. You can do a complete backup or a differential one. In our example we have chosen a complete backup.

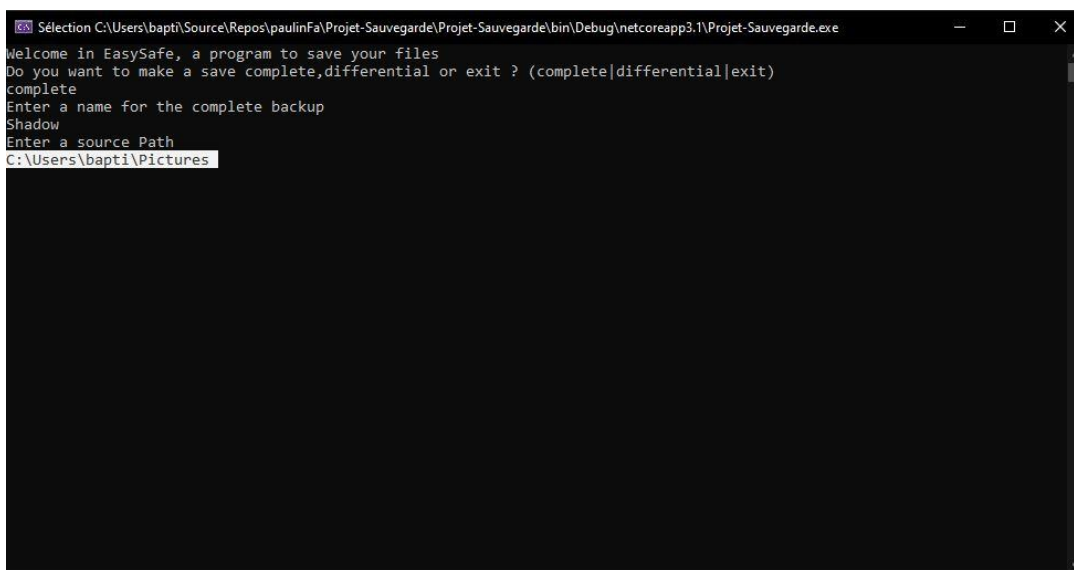


```
Sélection C:\Users\bapti\Source\Repos\paulinFa\Projet-Sauvegarde\Projet-Sauvegarde\bin\Debug\netcoreapp3.1\Projet-Sauvegarde.exe
Welcome in EasySafe, a program to save your files
Do you want to make a save complete,differential or exit ? (complete|differential|exit)
complete
Enter a name for the complete backup
Shadow
```

Figure 8 - Program Execution 2

Press Enter and the next choice will be the name, there you can enter what you want. The name will be the name of the directory of your save. We have called our example backup “Shadow”.

The next step will be to identify the location of the directory or the file that you want to save, so you will need to enter the source Path of your directory or your file and next the destination where you want the backup to be saved.

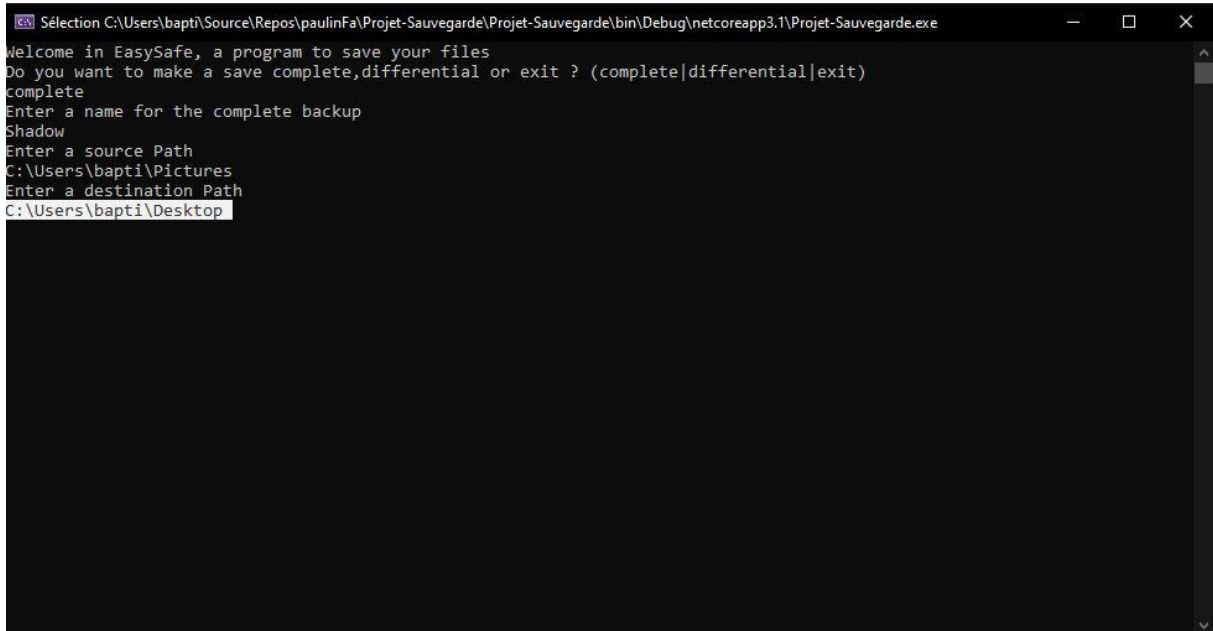


```
Sélection C:\Users\bapti\Source\Repos\paulinFa\Projet-Sauvegarde\Projet-Sauvegarde\bin\Debug\netcoreapp3.1\Projet-Sauvegarde.exe
Welcome in EasySafe, a program to save your files
Do you want to make a save complete,differential or exit ? (complete|differential|exit)
complete
Enter a name for the complete backup
Shadow
Enter a source Path
C:\Users\bapti\Pictures
```

Figure 9 - Program Execution 3

Source: C:\Users\bapti\Pictures, I want to save some pictures and I want the backup to be on my desktop.

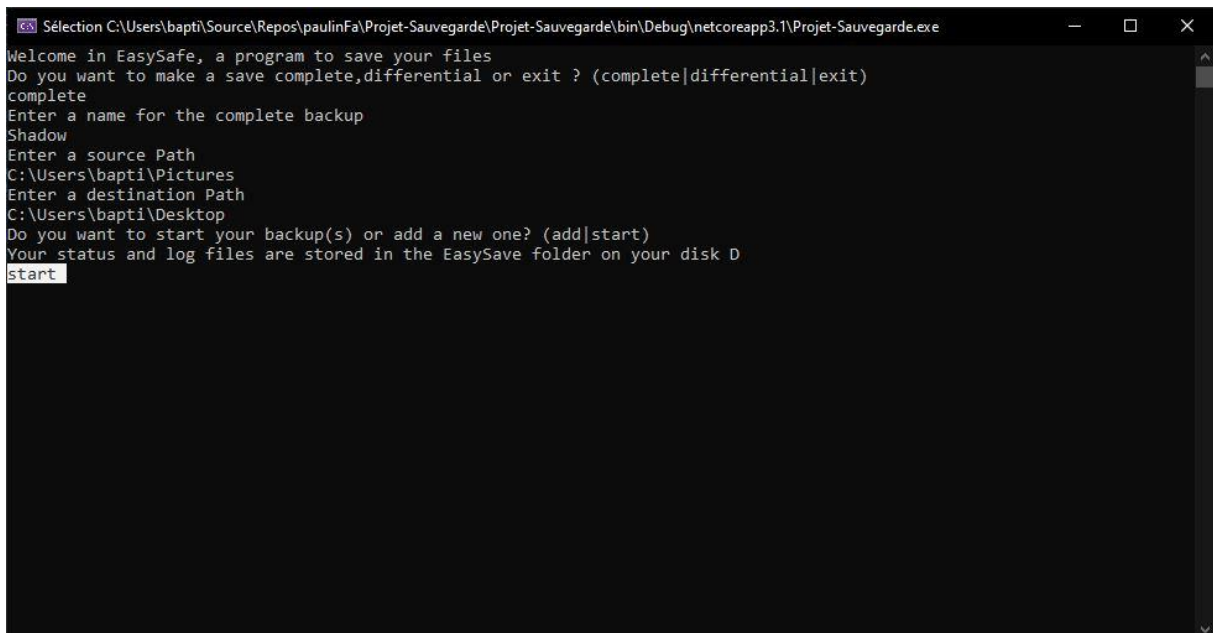
Destination : C:\Users\bapti\Desktop



```
Sélection C:\Users\bapti\Source\Repos\paulinFa\Projet-Sauvegarde\Projet-Sauvegarde\bin\Debug\netcoreapp3.1\Projet-Sauvegarde.exe
Welcome in EasySafe, a program to save your files
Do you want to make a save complete,differential or exit ? (complete|differential|exit)
complete
Enter a name for the complete backup
Shadow
Enter a source Path
C:\Users\bapti\Pictures
Enter a destination Path
C:\Users\bapti\Desktop
```

Figure 10 – Program Exécution 4

We have almost finished our backup! But before starting the save, you can choose to do more backups in one row. In our example we will not but you have the possibility to do it, you just must write “add” in the console. If you do not want to, just write “start”.



```
Sélection C:\Users\bapti\Source\Repos\paulinFa\Projet-Sauvegarde\Projet-Sauvegarde\bin\Debug\netcoreapp3.1\Projet-Sauvegarde.exe
Welcome in EasySafe, a program to save your files
Do you want to make a save complete,differential or exit ? (complete|differential|exit)
complete
Enter a name for the complete backup
Shadow
Enter a source Path
C:\Users\bapti\Pictures
Enter a destination Path
C:\Users\bapti\Desktop
Do you want to start your backup(s) or add a new one? (add|start)
Your status and log files are stored in the EasySave folder on your disk D
start
```

Figure 11 - Program Execution 5

And now we are done! You can see the state of the backup evolve and show you when the save is finished!

```
Console de débogage Microsoft Visual Studio
remaining length : 321022378remaining number : 57length : 5939817 Etat d'avancement = 18,169336 %
remaining length : 315082510remaining number : 56length : 5939868 Etat d'avancement = 19,683447 %
remaining length : 309142680remaining number : 55length : 5939824 Etat d'avancement = 21,197548 %
remaining length : 303202794remaining number : 54length : 5939892 Etat d'avancement = 22,711662 %
remaining length : 297262977remaining number : 53length : 5939817 Etat d'avancement = 24,22576 %
remaining length : 291323165remaining number : 52length : 5939812 Etat d'avancement = 25,739857 %
remaining length : 285383268remaining number : 51length : 5939897 Etat d'avancement = 27,253973 %
remaining length : 279443446remaining number : 50length : 5939822 Etat d'avancement = 28,768074 %
remaining length : 273503620remaining number : 49length : 5939817 Etat d'avancement = 30,28217 %
remaining length : 267563812remaining number : 48length : 5939817 Etat d'avancement = 31,796268 %
remaining length : 261624010remaining number : 47length : 5939793 Etat d'avancement = 33,31036 %
remaining length : 255684255remaining number : 46length : 5939764 Etat d'avancement = 34,824444 %
remaining length : 249744438remaining number : 45length : 5939817 Etat d'avancement = 36,33854 %
remaining length : 243804621remaining number : 44length : 5939817 Etat d'avancement = 37,852634 %
remaining length : 237864758remaining number : 43length : 5939863 Etat d'avancement = 39,36675 %
remaining length : 231924888remaining number : 42length : 5939870 Etat d'avancement = 40,88086 %
remaining length : 225984984remaining number : 41length : 5939904 Etat d'avancement = 42,394978 %
remaining length : 220045133remaining number : 40length : 5939851 Etat d'avancement = 43,90908 %
remaining length : 214105323remaining number : 39length : 5939810 Etat d'avancement = 45,423183 %
remaining length : 208165511remaining number : 38length : 5939812 Etat d'avancement = 46,93728 %
remaining length : 202225689remaining number : 37length : 5939822 Etat d'avancement = 48,451378 %
remaining length : 196285862remaining number : 36length : 5939827 Etat d'avancement = 49,965473 %
remaining length : 190346035remaining number : 35length : 5939827 Etat d'avancement = 51,479572 %
remaining length : 184406230remaining number : 34length : 5939805 Etat d'avancement = 52,993668 %
remaining length : 178466408remaining number : 33length : 5939822 Etat d'avancement = 54,507767 %
remaining length : 172526567remaining number : 32length : 5939841 Etat d'avancement = 56,021873 %
remaining length : 166586745remaining number : 31length : 5939822 Etat d'avancement = 57,53597 %
remaining length : 160646910remaining number : 30length : 5939829 Etat d'avancement = 59,05007 %
remaining length : 154707085remaining number : 29length : 5939851 Etat d'avancement = 60,56418 %
remaining length : 148767260remaining number : 28length : 5939829 Etat d'avancement = 62,078278 %
remaining length : 142827414remaining number : 27length : 5939822 Etat d'avancement = 63,592373 %
remaining length : 136887597remaining number : 26length : 5939817 Etat d'avancement = 65,10647 %
remaining length : 130947698remaining number : 25length : 5939899 Etat d'avancement = 66,6206 %
remaining length : 125007787remaining number : 24length : 5939911 Etat d'avancement = 68,13471 %
remaining length : 119067941remaining number : 23length : 5939846 Etat d'avancement = 69,64882 %
remaining length : 113128037remaining number : 22length : 5939904 Etat d'avancement = 71,16294 %
remaining length : 107188232remaining number : 21length : 5939805 Etat d'avancement = 72,67703 %
remaining length : 101248420remaining number : 20length : 5939812 Etat d'avancement = 74,19113 %
remaining length : 95308591remaining number : 19length : 5939829 Etat d'avancement = 75,70523 %
remaining length : 89368762remaining number : 18length : 5939829 Etat d'avancement = 77,21932 %
remaining length : 83428921remaining number : 17length : 5939841 Etat d'avancement = 78,73343 %
remaining length : 77489094remaining number : 16length : 5939827 Etat d'avancement = 80,247536 %
remaining length : 71549277remaining number : 15length : 5939817 Etat d'avancement = 81,76163 %
remaining length : 65609431remaining number : 14length : 5939846 Etat d'avancement = 83,275734 %
remaining length : 59669667remaining number : 13length : 5939764 Etat d'avancement = 84,78982 %
remaining length : 53729886remaining number : 12length : 5939781 Etat d'avancement = 86,30391 %
remaining length : 47790076remaining number : 11length : 5939810 Etat d'avancement = 87,818 %
remaining length : 41850155remaining number : 10length : 5939921 Etat d'avancement = 89,33213 %
remaining length : 35910338remaining number : 9length : 5939817 Etat d'avancement = 90,84622 %
remaining length : 29970545remaining number : 8length : 5939793 Etat d'avancement = 92,36032 %
remaining length : 24030682remaining number : 7length : 5939863 Etat d'avancement = 93,87443 %
remaining length : 18090853remaining number : 6length : 5939829 Etat d'avancement = 95,38853 %
remaining length : 12151019remaining number : 5length : 5939834 Etat d'avancement = 96,90263 %
remaining length : 6211202remaining number : 4length : 5939817 Etat d'avancement = 98,416725 %
remaining length : 271339remaining number : 3length : 5939863 Etat d'avancement = 99,93083 %
remaining length : 380remaining number : 2length : 270959 Etat d'avancement = 99,99991 %
remaining length : 190remaining number : 1length : 190 Etat d'avancement = 99,999954 %
remaining length : 0remaining number : 0length : 190 Etat d'avancement = 100 %

Sortie de C:\Users\bapti\Source\Repos\paulinFa\Projet-Sauvegarde\Projet-Sauvegarde\bin\Debug\netcoreapp3.1\Projet-Sauvegarde.exe (processus 12224). Code : 0.
Pour fermer automatiquement la console quand le débogage s'arrête, activez Outils->Options->Débogage->Fermer automatiquement la console à l'arrêt du débogage.
Appuyez sur une touche pour fermer cette fenêtre. . .
```

Figure 12 - Program Execution 6

Now we will make sure that the backup is really done.

So, you can verify the directory at your destination path:

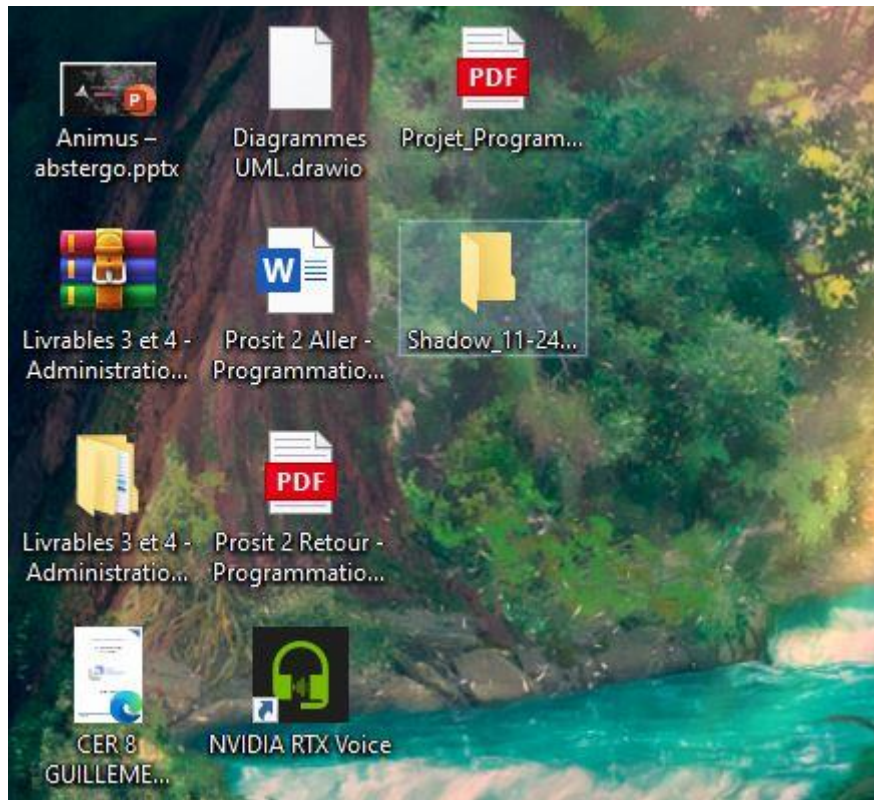


Figure 13 - Execution Result 1

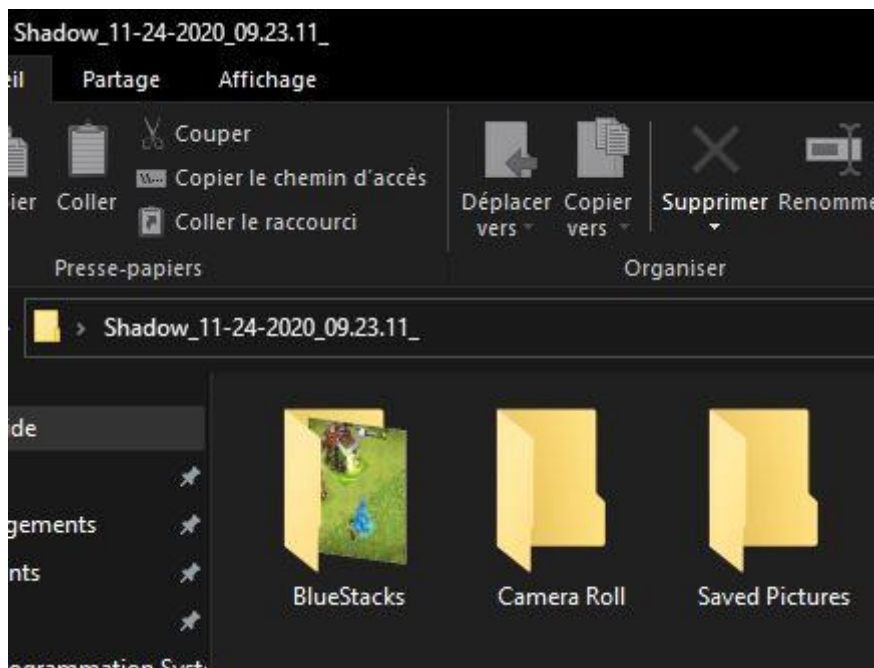


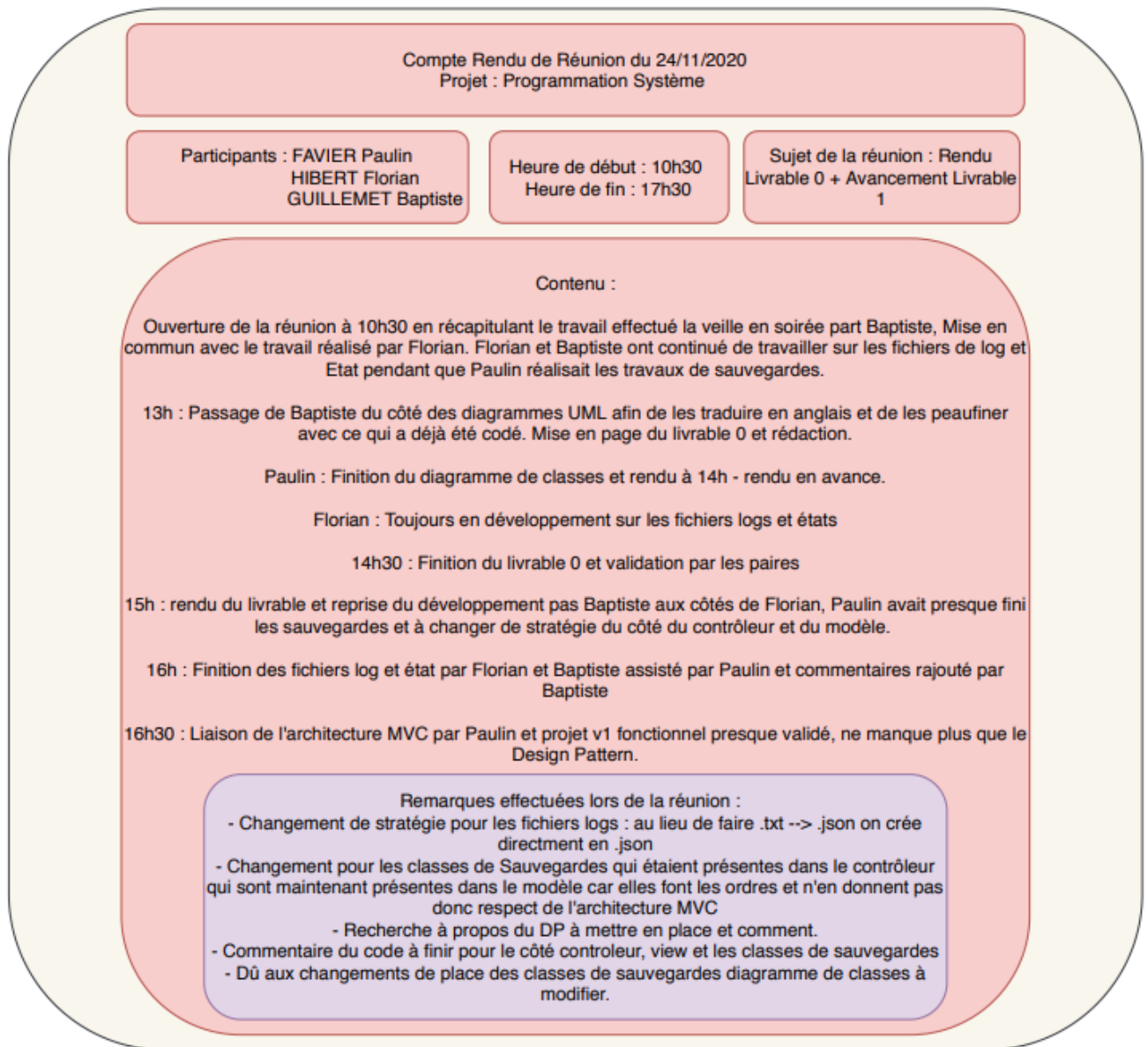
Figure 14 - Execution Result 2

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Meeting reports :

In this part you will be able to see our meeting reports. With these you can get a good idea on how to project is evolving and the problems we have encountered and the decisions we have make.



Compte Rendu de Réunion du 25/11/2020
Projet : Programmation Système

Participants : FAVIER Paulin
HIBERT Florian
GUILLEMET Baptiste

Heure de début : 9h30
Heure de fin : 13h00

Sujet de la réunion : Rendu
Livvable 1 + Finitions

Contenu :

Ouverture de la réunion à 9h30, sujets principaux qui sont abordés :

- Florian ajoute la création d'un dossier automatique dans le programme permettant d'accueillir les futurs dossiers Etat et Log pour que l'utilisateur n'ai pas à le faire et que celui-ci soit situé judicieusement.
- Paulin ajoute quelques modifications à son code et fini ses commentaires, + modifications du diagramme de classes et tag du projet v1.0 sur GitHub
- Baptiste réalise le livrable 1 en se mettant d'accord avec ses pairs sur les sujets a abordés et les modifications qui ont été abordés et qui ne bougeront plus.
- Confirmation du manque de temps pour mettre en place un Design Pattern, nous décidons de l'implémenter pour la prochaine version du logiciel la version v2.0.
- Nous partons sur l'idée de mettre en place un DP Observer et éventuellement un DP Fabrique.
- Déçu de ne pas avoir eu le temps de mettre en place un Design Pattern mais motivé pour le prochain livrable.

Conclusion :

- Rédaction et mise en page du Livrable 12 + rendu avant 13h
- Modification et ajouts de fonctionnalités au programme
- Modifications du diagramme de classes
- Design Pattern à implémenter pour le prochain livrable par manque de temps