



# LYCANITE

SCARE THE MALWARES

## Project Log Document

### Revision 2

Sprint #0 (24-03-2021)

#### Bilan

Lors de la Forward Epitech, nous avons pu avoir un premier prototype.

Premièrement, nous voulions nous diriger vers un prototype facile avec des outils avancés existants comme Docket WSL... Finalement nous avons décidé d'abandonner cette idée, car trop complexe à déployer sur les machines des utilisateurs, les applications sont restreintes par le contexte linux ce qui réduit grandement l'utilité de l'application.

Nous avons finalement trouvé une solution nous rapprochant au plus de notre produit final grâce au développement de driver kernel sous Windows, ce qui nous permet de proposer une meilleure intégration avec l'environnement Windows, de garantir des pertes de performances minimales et une plus grande facilité de déploiement sur les machines utilisateurs.

Grâce à cela, nous avons pu produire un premier prototype bloquant le fameux ransomware WannaCry.

Sprint #1 (05-04-2021)

#### Sprint Planification

Diagram

Legende

En cours ce sprint

```
graph TD; Lycanite --> Website; Lycanite --> Solution; Website --> Frontend; Website --> Backend; Solution --> Application; Solution --> VFS[Virtual File System]; Solution --> Service; Solution --> KernelDriver[Kernel Driver];
```

Features Progression Status

Website

Feature	Progress
Landing page mockup	0%
FAQ page mockup	0%
Download page mockup	0%
Contact page mockup	0%
Website technologies	0%
Development of the landing page	0%
Development of the download page	0%
Development of the FAQ page	0%
Development of the contact page	0%

Driver

Feature	Progress
Stack Library	0%
Queue Library	0%
Vector Library	27%
Memory management library	0%

Application

Feature	Progress
Mockup of the Application	0%
Application Architecture	0%
Mockup of the Application - UX	0%
Application Technology	0%

Tools

Feature	Progress
Convert github issues/cards to text	0%
PDF Generation tool	0%

#### Website

1 Landing page mockup

As I want

developper a mockup of the landing page

Description

Have a mockup of the landing page that suits the entire group so we have a streamlined view of what the website should look like

Working Day(s)	Working People(s)
2	1

Definition of Done

☐ A basic mockup of the landing page

0%

1 FAQ page mockup

As I want

developper a mockup of the FAQ page

Description

Have a mockup of the FAQ page that suits the entire group so we have a streamlined view of what the website should look like

Working Day(s)	Working People(s)
2	1

Definition of Done

☐ A basic mockup of the FAQ page

0%

1 Download page mockup

As I want

developper a mockup of the download page

Description

Have a mockup of the download page that suits the entire group so we have a streamlined view of what the website should look like

Working Day(s)	Working People(s)
2	1

Definition of Done

☐ A basic mockup of the download page

0%

1 Contact page mockup

As I want

developper a mockup of the contact page

Description

Have a mockup of the contact page that suits the entire group so we have a streamlined view of what the website should look like

Working Day(s)	Working People(s)
2	1

Definition of Done

☐ A basic mockup of the contact page

0%

1 Website technologies

As I want

web developper a global view of all of the web technologies available to use

Description

Before starting development on the website, we need to choose technologies adapted to our needs based on their features. Keep in mind, the website is just a showcase one and not an app

Working Day(s)	Working People(s)
2	3

Definition of Done

☐ Look for different technologies

☐ Test the different technologies

☐ Getting used to them

0%

1 Development of the landing page

As I want

developper to program the landing page

Description

Development of the landing page based on it's mockup

Working Day(s)	Working People(s)
2	1

Definition of Done

☐ Development of the landing page

0%

1 Development of the download page

As I want

developper to program the download page

Description

Development of the download page based on it's mockup

Working Day(s)	Working People(s)
2	1

Definition of Done

☐ Development of the download page

0%

1 Development of the FAQ page

As I want

developper to program the FAQ page

Description

Development of the FAQ page based on it's mockup

Working Day(s)	Working People(s)
2	1

Definition of Done

☐ Development of the FAQ page

0%

1 Development of the contact page

As I want

developper to program the contact page

Description

Development of the contact page based on it's mockup

Working Day(s)	Working People(s)
2	1

Definition of Done

☐ Development of the contact page

0%

#### Driver

1 Stack Library

As I want

Lycanite Developer Have a Stack library ready to use

Description

A stack is an abstract data type that serves as a collection of elements, with two main principal operations:

- Push, which adds an element to the collection, and
- Pop, which removes the most recently added element that was not yet removed.

We have to recreate a new stack because there is none natively in the kernel.

Working Day(s)	Working People(s)
10	1

Definition of Done

☐ Insert element at the beginning

☐ Take out the first element

☐ Sort the Stack

☐ Automatic expansion before overflow

☐ Memory Efficient and Safe

☐ Works in the Kernel

☐ Be able to reserve the size of a Stack

☐ Documentation

☐ Tests

0%

1 Queue Library

As I want

Lycanite Developer Have a Queue library ready to use

Description

A queue is a data structure in which elements are removed in the same order they were entered. We have to recreate a new queue because there is none natively in the kernel.

Working Day(s)	Working People(s)
10	1

Definition of Done

☐ Inserting elements at the end

☐ Take out the first element

☐ Sorted the Tail

☐ Automatic enlargement before overflow

☐ Memory Efficient and Safe

☐ Works in the Kernel

☐ Be able to reserve the size of a Queue

☐ Documentation

☐ Tests

0%

1 Vector Library

As I want

Lycanite Developer Have a Queue library ready to use

Description

We have to recreate a new vector because there is none natively in the kernel.

Working Day(s)	Working People(s)
10	1

Definition of Done

☒ Inserting elements

☐ Deleting elements

☒ Access to an element from an index

☒ Vector sorting

☒ Automatic enlargement before overflow

☐ Ability to reserve the size of a Vector

☐ Memory Efficient and Safe

☐ Binary search

☐ Works in the Kernel

☐ Documentation

☐ Tests

27%

#### Memory management library

As I want

Lycanite developer a cross-platform memory management library that allows me to manage memory easily.

Description

We need to have a cross platform memory management library in order to easily manage the memory on the kernel driver side.

Working Day(s)	Working People(s)
6	1

Definition of Done

☐ Allocations, frees

☐ Reallocations

☐ Memory copies

☐ Memory moves

☐ Memory monitoring

☐ Tests

0%

#### Application

1 Mockup of the Application

As I want

Lycanite Developer A model of the application to facilitate development

Description

This model must be as User Friendly as possible to make its use simple and fast without disturbing the user. It will allow a faster use.

Working Day(s)	Working People(s)
3	3

Definition of Done

☐ Have the Lycanite color chart

☐ Find a simple, smooth and interactive style with the chosen technology

0%

Application Architecture

AsI want

Lycanite DeveloperHave an architecture allowing the creation of the application according to the model with the chosen technologies.

Description

Once the technology has been found, an architecture is needed to facilitate the development of the application so that, over time, it is easy to find its way around. The architecture must allow the efficient implementation of new features not originally planned

Working Day(s)Working People(s)

103

Definition of Done

- Take into account the needs of the technologies chosen for our architecture.
- Creation of schematics and documentation detailing the architecture of the application and allowing other developers to understand its logic.

0%

Mockup of the Application - UX

AsI want

Lycanite DeveloperA model of the application to facilitate development

Description

This model must be as User Friendly as possible to make its use simple and fast without disturbing the user, for that, a good UX will be very important

Working Day(s)Working People(s)

93

Definition of Done

- UX File permissions
- UX Opening applications in Lycanite
- UX Opening and writing permissions

0%

Application Technology

AsI want

Lycanite DeveloperHave an overview of the different technologies available to develop the application

Description

To start the development of the Application from the mock-up in the most efficient way we need to be able to choose between the different existing technologies knowing their proposed features

Working Day(s)Working People(s)

63

Definition of Done

- Research of existing technologies.
- Testing the technologies to see if they allow us to achieve our objectives.
- Acclimatisation to the technology

0%

Tools

Convert github issues/cards to text

AsI want

Lycanite DeveloperI want to generate text from github issues and cards I created

Description

I want to have a tool that converts github issues/cards into a text file format that can be easily understood and edited by team members

Working Day(s)Working People(s)

51

Definition of Done

- Retrieve open and closed issues from github
- Convert issues to proprietary text format

0%

PDF Generation tool

AsI want

DeveloperA tool capable of generating a PDF file based on the PLD

Description

A tool capable of reading a text and generate a PDF file

Working Day(s)Working People(s)

51

Definition of Done

- Parse document and generate PDF

0%

