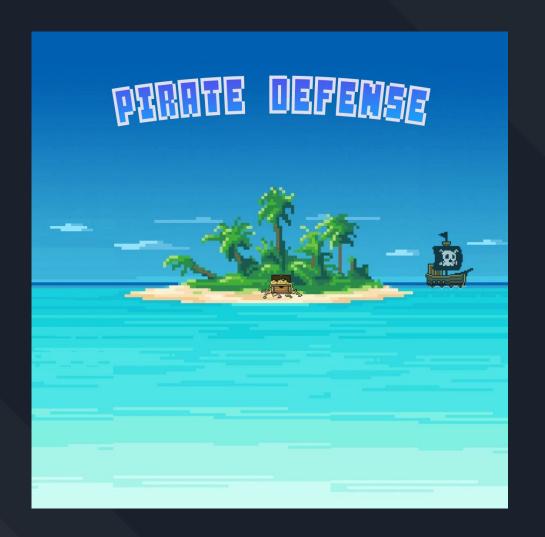


Soutenance de projet LIFAPCD

Pirate Defense



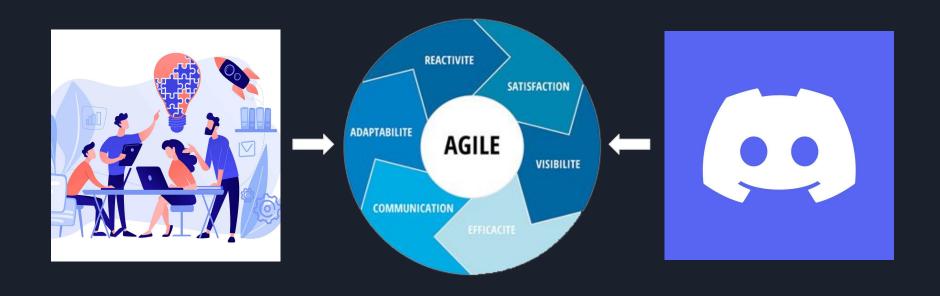
# Diagramme de Gantt :

| Tâches \ Semaines Ser                           | emaine 1 (26/02/2024) | Complete 2 |           |           |           |           |           |                                       |
|---|-----------------------|------------|-----------|-----------|-----------|-----------|-----------|---------------------------------------|
|   |                       | Semaine 2  | Semaine 3 | Semaine 4 | Semaine 5 | Semaine 6 | Semaine 7 | Semaine 8 (16/04/2024)                |
| Création du git                                 |                       |            |           |           |           |           |           |                                       |
| Définition du jeu & règles                      |                       |            |           |           |           |           |           |                                       |
| Définition des classes principales              |                       |            |           |           |           |           |           | e e e e e e e e e e e e e e e e e e e |
| Diagramme UML                                   |                       |            |           |           |           |           | ļ.        | ,                                     |
| Répartition des tâches                          |                       |            |           |           |           |           |           |                                       |
| Implémentation C++ des premières fonctionalités |                       |            |           |           |           |           |           |                                       |
| Tests & Debogages (Valgrind)                    |                       |            |           |           |           |           |           |                                       |
| Affichage sur console                           |                       |            |           |           |           |           |           |                                       |
| Affichage Wintxt                                |                       |            |           |           |           | <u> </u>  | 8         | 8                                     |
| Découverte SFML                                 |                       |            |           |           |           |           |           |                                       |
| Démo mi-parcours                                |                       |            |           |           |           |           |           |                                       |
| Création \ Recherche designs & sons             |                       |            |           |           |           |           |           |                                       |
| Adapter le jeu avec SFML                        |                       |            |           |           |           |           |           |                                       |
| Ajout de fonctionnalités & Améliorations        |                       |            |           |           |           |           |           |                                       |
| Implementation interface Utilisateur (Menus)    |                       |            |           |           |           |           |           |                                       |
| Ajouts et rectifications des derniers détails   |                       |            |           |           |           |           |           |                                       |
| Finalisation                                    |                       |            |           |           |           |           |           |                                       |
| Préparation présentation                        |                       |            |           |           |           |           |           |                                       |
| Soutenance finale                               |                       |            |           |           |           |           |           |                                       |

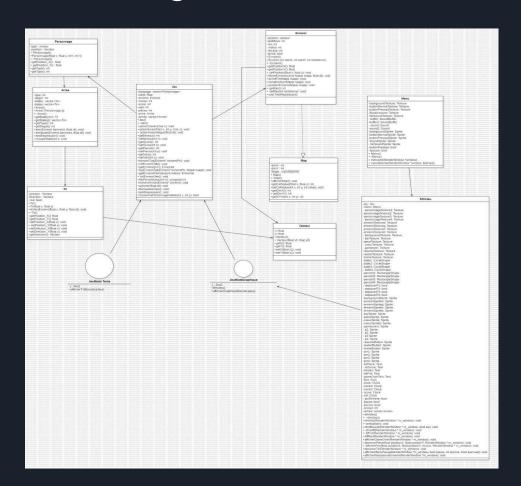
Partie Organisation

Partie programmation

# Organisation et répartition des tâches :

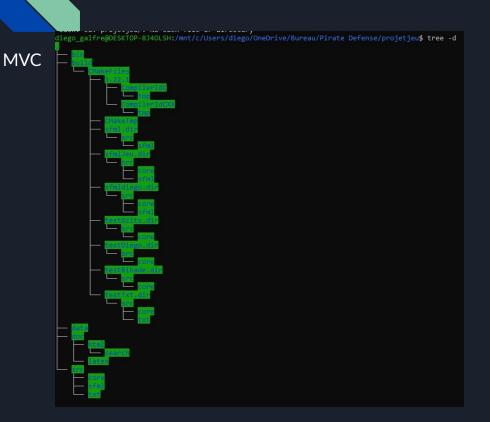


## Diagramme UML:



**──** Voir pdf

### Organisation des fichiers & Doxygene :





## Classes et fonctions importantes :

#### Map:



{{0,0,0,0,0,0,0,0,0}, {1,1,4,0,0,0,0,0}, {0,0,4,0,0,1,1,1}, {0,0,4,0,0,3,0,0}, {0,0,1,1,1,3,0,0}, {0,0,0,0,0,0,0,0,0}}

#### **Ennemi:**

-> void Ennemi::MoveEnnemi(Map& mapp);

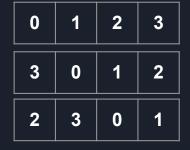
2
-> int lastmove: -1 1
-2
-2

• Déplacements en fonction de la case sur laquelle il se trouve.



#### Jeu:

-> void tueEnnemiTab(Ennemi\*e\_ptr,
Map& mapp)



- -> (ennemis[i].getIndice -1) mod NBEnnemis
- -> getEnnemiParIndice(0);
- -> void actionAutomatique();
- -> void Jeu::testRegression();

## Affichage textuel:

```
Ennemi 0 Position (x;y) = (2;7) Indice = 0 Resistance = 1 arrive? false
Ennemi 1 Position (x;y) = (2;6) Indice = 1 Resistance = 8 arrive? false
Ennemi 2 Position (x;y) = (2;5) Indice = 2 Resistance = 8 arrive? false
Ennemi 3 Position (x;y) = (2;4) Indice = 3 Resistance = 8 arrive? false
Ennemi 4 Position (x;v) = (2:3) Indice = 4 Resistance = 8 arrive? false
Pieces: 0
Vies restantes: 5
60000000
11001110
08001011
08001000
08001000
08001000
01111000
00000000
Ennemi mort
Ennemi 0 Position (x;y) = (0;0) Indice = 4 Resistance = 8 arrive? false
Ennemi 1 Position (x;y) = (2;7) Indice = 0 Resistance = 8 arrive? false
Ennemi 2 Position (x;y) = (2;6) Indice = 1 Resistance = 8 arrive? false
Ennemi 3 Position (x;y) = (2;5) Indice = 2 Resistance = 8 arrive? false
Ennemi 4 Position (x:v) = (2:4) Indice = 3 Resistance = 8 arrive? false
Pieces: 5
Vies restantes: 5
60000000
11001110
01001011
08001000
08001000
08001000
08111000
00000000
Ennemi 0 Position (x;y) = (1;2) Indice = 4 Resistance = 8 arrive? false
Ennemi 1 Position (x;y) = (3;7) Indice = 0 Resistance = 7 arrive? false
Ennemi 2 Position (x;y) = (2;7) Indice = 1 Resistance = 8 arrive? false
Ennemi 3 Position (x;y) = (2;6) Indice = 2 Resistance = 8 arrive? false
Ennemi 4 Position (x;y) = (2;5) Indice = 3 Resistance = 8 arrive? false
```

```
Version Terminal -> Test Regression
```

```
ow diego galfre@DESKTOP-8J4OLSH: /mnt/c/Users/diego/OneDrive/Bureau/Pirate Defense/projetieu
Ennemi 0 Position (x;y) = (2;4) Indice = 4 Resistance = 8
Ennemi 1 Position (x;y) = (5;6) Indice = 0 Resistance = 4
Ennemi 2 Position (x;y) = (5;7) Indice = 1 Resistance = 8
Ennemi 3 Position (x;y) = (4;7) Indice = 2 Resistance = 8
Ennemi 4 Position (x;y) = (3;7) Indice = 3 Resistance = 8
Score: 13
Pieces: 0
Vies restantes: 5
Nb personnage niveau 1 :1
Nb personnage niveau 2:0
```

Version WinTxt



- Gestion d'entrée de l'utilisateur
- Gestion du son/musique
- Portabilité (Window,linux .....)
- sfmlJeu.h/sfmlJeu.c pp (843 ligne de code)

# Qt

- Complet
- Lourd
- Optimiser pour dev Application

## Graphismes & Assets:











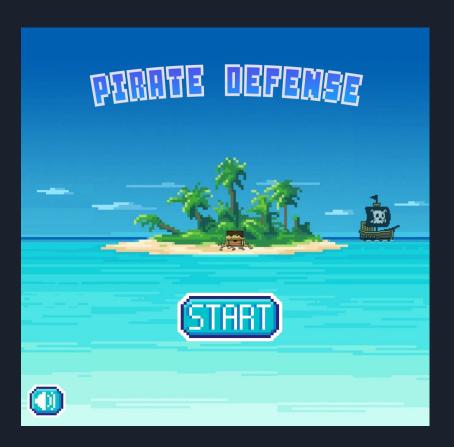








## Démonstration et conclusion :





# Conclusion: