

# THE VIRTUE OF A SOLDIER IS IN THE SHINE OF ITS HEARTH

# Normanda Production Plan

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# 1. Game Introduction

#### 1.1 Theme

Action and Adventure, being a Dungeon Crawler.

### 1.2 Setting

The game takes place in a town named Normanda, a fictional city. There are 3 neighborhoods in the city, each neighbor has a portal to the other world that will work as a dungeon level to the player. If the Final Enemy of the dungeon is defeated, the portal for the human world appears.

#### 1.3 Art/Camera Style

Top-down view with a pixel art style.

### 1.4 Music Style

#### 1.4.1 City Music Style

24 bits Calm violin music, creating a happy and calm atmosphere.

#### 1.4.2 Dungeon Music Style

24 bits Bass Piano music, increasing the feeling of tension.

#### 1.5 Sound Effect

24 bits sound effect.

#### 1.6 Platforms

Windows computers and Android smartphones.

# 2. Project Concept

# 2.1 Game Concept

The game is a dungeon crawler with exploration. You play as "Adventurer", your goal is to clean the dungeons and save the city before the monsters discover a way through the portal, while cleaning them, the player can talk with NPCs in the city to understand the world that he is in. When the player kills a monster, he gains gold, being able to buy new items and become stronger. The rarity of the item influences the price of it. The exploration is in the city map, where NPCs will work as comedy relief and stores to purchase items.

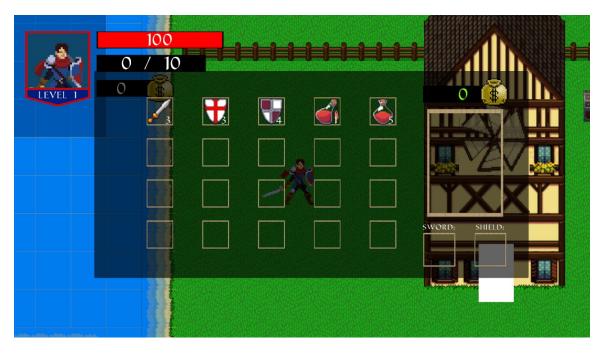
#### 2.2 Companion App Concept

The Companion app is an extension of the Windows version of the game. The companion app has the features of "Stats", "Maps", "Wiki", and "Challenge".

- Stats Show in real time the Life, Gold, Experience, and Level of the player.
- Maps Work as a treasure hunt. In the game the player can find maps that will be only visible in the Companion app. The treasures will be in the form of specific items that will be randomized.
- Wiki Wiki will show all the items of the game, with its photo, name, price, lore, and stats
- Challenge A timer that the player can set (In minutes), that creates a challenge in the game. If the player kills the specific number of enemies that appears in the app, he gets extra Experience, and Gold.

# 3. Game Features List

# 3.1 Inventory Popup



The player items will be shown in a form of a grid, the items will appear by the order that the player gets it. The storage of items in the inventory doesn't have a limit.

## 3.2 Item Store Popup



Items can be bought inside the store, the player must select the item that he wants, and press click on it, if the amount of gold is enough, the item will appear in the inventory.

# 4. Game Backlogs

| ID | Task                           | Time Needed | Responsable | Tested? | Priority | Stage       |
|----|--------------------------------|-------------|-------------|---------|----------|-------------|
| 1  | Documentation                  | X Hour      | Both        | N/A     | High     | Not Started |
| 2  | Camera                         | X Hour      | Gabriel     | N/A     | High     | Not Started |
| 2  | Basic UI                       | X Hour      | Gabriel     | N/A     | High     | Not Started |
| 2  | Player Movement                | X Hour      | Gabriel     | N/A     | High     | Not Started |
| 3  | Player Animation               | X Hour      | Gabriel     | N/A     | Low      | Not Started |
| 3  | Player Basic Attack            | X Hour      | N/A         | N/A     | High     | Not Started |
| 3  | Player Strong<br>Attack        | X Hour      | N/A         | N/A     | High     | Not Started |
| 3  | Player Shield                  | X Hour      | N/A         | N/A     | High     | Not Started |
| 3  | Static UI                      | X Hour      | N/A         | N/A     | High     | Not Started |
| 4  | Dynamic UI                     | X Hour      | N/A         | N/A     | Low      | Not Started |
| 4  | Melee Attack<br>Enemy          | X Hour      | N/A         | N/A     | High     | Not Started |
| 4  | Archer Attack<br>Enemy         | X Hour      | N/A         | N/A     | High     | Not Started |
| 4  | NPC's ChatBox                  | X Hour      | N/A         | N/A     | Low      | Not Started |
| 5  | Item Constructor               | X Hour      | N/A         | N/A     | Medium   | Not Started |
| 5  | Level Design                   | X Hour      | N/A         | N/A     | Medium   | Not Started |
| 5  | Level Collision &<br>Tales     | X Hour      | N/A         | N/A     | Medium   | Not Started |
| 6  | Enemy Formulas <sup>1</sup>    | X Hour      | N/A         | N/A     | High     | Not Started |
| 7  | Music<br>Implementation        | X Hour      | N/A         | N/A     | Low      | Not Started |
| 7  | Sound Effect<br>Implementation | X Hour      | N/A         | N/A     | Low      | Not Started |
| 7  | Login Verification             | X Hour      | N/A         | N/A     | High     | Not Started |

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<sup>&</sup>lt;sup>1</sup> Formula for Damage, Health, Attack Speed, and Gold

| ID | Limit Date |
|----|------------|
| 1  | 2020/11/13 |
| 2  | 2020/11/20 |
| 3  | 2020/11/27 |
| 4  | 2020/12/04 |
| 5  | 2020/12/11 |
| 6  | 2020/12/18 |
| 7  | 2020/12/25 |

# 5. Companion App Backlogs

| ID | Task                        | Time Needed | Responsable | Tested? | Priority | Stage       |
|----|-----------------------------|-------------|-------------|---------|----------|-------------|
| 1  | Blueprints                  | X Hour      | Gabriel     | N/A     | High     | Not Started |
| 2  | UI Shown In App             | X Hour      | Gabriel     | N/A     | High     | Not Started |
| 2  | Connection<br>Between Pages | X Hour      | Gabriel     | N/A     | High     | Not Started |
| 2  | Linear Grid &<br>Buttons    | X Hour      | Gabriel     | N/A     | High     | Not Started |
| 3  | Item Creation               | X Hour      | Nuno        | N/A     | High     | Not Started |
| 3  | Draw of the Item            | X Hour      | Nuno        | N/A     | High     | Not Started |
| 3  | Wiki                        | X Hour      | Gabriel     | N/A     | High     | Not Started |
| 4  | Map<br>Implementation       | X Hour      | Nuno        | N/A     | High     | Not Started |
| 5  | Stats                       | X Hour      | Gabriel     | N/A     | High     | Not Started |
| 6  | Training System             | X Hour      | Gabriel     | N/A     | High     | Not Started |
| 7  | Login Verification          | X Hour      | Nuno        | N/A     | High     | Not Started |

| ID | Limit Date |
|----|------------|
| 1  | 2020/11/13 |
| 2  | 2020/11/20 |
| 3  | 2020/11/27 |
| 4  | 2020/12/04 |
| 5  | 2020/12/11 |
| 6  | 2020/12/18 |
| 7  | 2020/12/25 |

# 6. Server Backlogs

| ID | Task               | Time Needed | Responsable | Tested? | Priority | Stage       |
|----|--------------------|-------------|-------------|---------|----------|-------------|
| 1  | Database Sketch    | X Hour      | Gabriel     | N/A     | High     | Not Started |
| 4  | Database           | X Hour      | Gabriel     | N/A     | High     | Not Started |
| 7  | Login Verification | X Hour      | Nuno        | N/A     | High     | Not Started |
| 8  | Exchange of Info   | X Hour      | Gabriel     | N/A     | High     | Not Started |

| ID | Limit Date |
|----|------------|
| 1  | 2020/11/13 |
| 2  | 2020/11/20 |
| 3  | 2020/11/27 |
| 4  | 2020/12/04 |
| 5  | 2020/12/11 |
| 6  | 2020/12/18 |
| 7  | 2020/12/25 |
| 8  | 2020/01/05 |

# 7. First Sprint

# 7.1 Review And Retrospective

The group worked in the presentation week to have as already some functionalities in the game, as simple as they could.

#### 7.1.1 Normanda Companion App

| Task             | Time Needed | Responsable | Tested? | Priority | Stage     |
|------------------|-------------|-------------|---------|----------|-----------|
| Camera           | 0.5 Hour    | Gabriel     | Yes     | High     | Completed |
| Player Movement  | 0.5 hour    | Gabriel     | Yes     | High     | Completed |
| Player Animation | 2.5 Hours   | Gabriel     | Yes     | Low      | Completed |

#### 7.1.2 Normanda Companion App

| Task       | Time Needed | Responsable | Tested? | Priority | Stage     |
|------------|-------------|-------------|---------|----------|-----------|
| Blueprints | 3.5 Hour    | Gabriel     | Yes     | High     | Completed |

All the Backlogs were developed by Gabriel, during this week Gabriel rushed to have as most as possible to show to the professors.

### 7.2 Plans For The Nexts Sprints

#### 7.2.1 Plans For The Unity Game

| Task                 | Time Needed | Responsable | Tested? | Priority | Stage       |
|----------------------|-------------|-------------|---------|----------|-------------|
| Player Basic Attack  | X Hour      | Gabriel     | Yes     | High     | Not Started |
| Player Strong Attack | X Hour      | Gabriel     | Yes     | High     | Not Started |
| Player Shield        | X Hour      | Gabriel     | Yes     | High     | Not Started |

#### 7.2.2 Plans For Companion App

| Task                | Time Needed | Responsable | Tested? | Priority | Stage       |
|---------------------|-------------|-------------|---------|----------|-------------|
| App Pages/Connected | X Hour      | Gabriel     | Yes     | High     | Not Started |

#### 7.3 Objectives

In-game character is moving and the camera is working properly for the type of game.

### 7.4 Backlogs

The Task in both game and the app backlogs were done as envisioned them.

# 7.5 Sprints

The Tasks were completely done by their responsable.

# 7.6 Analysis

In this sprint, most of the work was done by brainstorming and having discussions with the teachers about the mechanics. The Database was sketched to simplify future work and the game already has movement and some animations.

### 7.7 Tasks Review

All tasks were completed without any delay or change on the backlogs.

# 8. Second Sprint

### 8.1 Review And Retrospective

During the first sprint the group focused on the documentation, and to start the code with basic code. Trying to implement the simpler codes for the game.

#### 8.1.1 Normanda Companion App

| Task                 | Time Needed | Responsable | Tested? | Priority | Stage     |
|----------------------|-------------|-------------|---------|----------|-----------|
| Player Basic Attack  | 1 Hour      | Gabriel     | Yes     | High     | Completed |
| Player Strong Attack | 1 Hour      | Gabriel     | Yes     | High     | Completed |
| Player Shield        | 0.16 Hour   | Gabriel     | Yes     | High     | Completed |
| Static UI            | 0.5 Hour    | Gabriel     | Yes     | Medium   | Completed |
| Player Animation     | 2.5 Hours   | Gabriel     | Yes     | Low      | Completed |

#### 8.1.2 Normanda Companion App

| Task                | Time Needed | Responsable | Tested? | Priority | Stage |
|---------------------|-------------|-------------|---------|----------|-------|
| App Pages/Connected | 2 Hours     | Gabriel     | Yes     | High     | Not   |

All the Backlogs were developed by Gabriel. The Connections between pages was left behind to learn and work with bottom bar navigation.

# 8.2 Plans For The Nexts Sprints

#### 8.2.1 Plans For The Unity Game

| Task          | Time Needed | Responsable | Tested? | Priority | Stage       |
|---------------|-------------|-------------|---------|----------|-------------|
| NPC's ChatBox | X Hour      | Nuno        | No      | High     | Not Started |
| Soldier Enemy | X Hour      | Gabriel     | No      | High     | Not Started |
| Arch Enemy    | X Hour      | Gabriel     | No      | High     | Not Started |

#### 8.2.2 Plans For Companion App

| Task                 | Time Needed | Responsable | Tested? | Priority | Stage       |
|----------------------|-------------|-------------|---------|----------|-------------|
| Item Creation Kotlin | X Hour      | Nuno        | No      | High     | Not Started |
| Map Implementation   | X Hour      | Gabriel     | No      | High     | Not Started |

# 8.3 Objectives

All the combat mechanics of the player were developed, having attacks and shield working perfectly.

### 8.4 Backlogs

The Task in both game and the app backlogs were done as envisioned them.

### 8.5 Sprints

The Tasks were completely done by their responsable.

# 8.6 Analysis

In this sprint, all the work was done by Gabriel. The group is expecting Nuno to take the initiative to work.

#### 8.7 Tasks Review

All tasks of the game were accomplished without delays. The companion app had a delay of a few hours, this delay didn't affect the overall productivity of the group.

In the table, it's not include the time to study and develop the logic. Just the time used to create the code and fix errors.

# 9. Third Sprint

# 9.1 Review And Retrospective

During the third sprint the group focused on the creation of the enemies and their behaviors.

#### 9.1.1 Normanda Companion App

| Task          | Time Needed | Responsable | Tested? | Priority | Stage        |
|---------------|-------------|-------------|---------|----------|--------------|
| Arch Enemy    | 3 Hours     | Gabriel     | Yes     | High     | Completed    |
| Soldier Enemy | 1 Hour      | Gabriel     | Yes     | High     | Completed    |
| Final Boss    | 2 Hours     | Gabriel     | Yes     | High     | Completed    |
| NPC's ChatBox | 9 Hours     | Nuno        | No      | Low      | Not Finished |

#### 9.1.2 Normanda Companion App

| Task                  | Time Needed | Responsable | Tested? | Priority | Stage     |
|-----------------------|-------------|-------------|---------|----------|-----------|
| Splash Screen         | 0.5 Hour    | Gabriel     | Yes     | High     | Completed |
| Linear Grid & Buttons | 1 Hour      | Gabriel     | Yes     | High     | Completed |
| Page Adaptor          | 2 Hours     | Gabriel     | Yes     | High     | Completed |

- All the effective work was done by Gabriel, Nuno spent his time working in the development of talk boxes, where the NPC will dispose of its sentence.
- In the Companion App, following Bruno's class, everything is going slow but effective.

## 9.2 Plans For The Nexts Sprints

#### 9.2.1 Plans For The Unity Game

| Task                 | Time Needed | Responsable | Tested? | Priority | Stage     |
|----------------------|-------------|-------------|---------|----------|-----------|
| Transition in levels | 1 Hour      | Gabriel     | Yes     | High     | Completed |
| Menus                | 3 Hour      | Gabriel     | Yes     | Low      | Completed |

#### 9.2.2 Plans For Companion App

| Task                 | Time Needed | Responsable | Tested? | Priority | Stage       |
|----------------------|-------------|-------------|---------|----------|-------------|
| Item Creation Kotlin | X Hour      | Nuno        | No      | High     | Not Started |
| Map Implementation   | X Hour      | Gabriel     | No      | High     | Not Started |

# 9.3 Objectives

In-game player attacks, and defense were developed, creating for a few seconds an area of collision that works according to their objectives and after some time destroys them.

# 9.4 Backlogs

The Task in both game and the app backlogs were done as envisioned them.

### 9.5 Sprints

The Tasks were completely done by their responsable.

### 9.6 Analysis

In this sprint, most of the work done was accomplished in 3 days. Having a small period of time, but being able to finish all the work with different tests and optimization.

#### 9.7 Tasks Review

All tasks of the game were accomplished without delays. The companion app had a delay of a few hours, this delay didn't affect the overall productivity of the group.

In the table, it's not include the time to study and develop the logic. Just the time used to create the code and fix errors.

# 10. Fourth Sprint

# 10.1 Review And Retrospective

During the Fourth sprint, the team focused on the Menus and Interactions with NPC's, Transitions, and Menus.

#### 10.1.1 Normanda Companion App

| Task                 | Time Needed | Responsable | Tested? | Priority | Stage     |
|----------------------|-------------|-------------|---------|----------|-----------|
| Inventory            | 25 Hours    | Nuno        | Yes     | High     | Incomple  |
| Transition in levels | 1 Hour      | Gabriel     | Yes     | High     | Completed |
| Menus                | 3 Hour      | Gabriel     | Yes     | Low      | Completed |
| NPC's ChatBox        | 2 Hours     | Gabriel     | Yes     | High     | Completed |

#### 10.1.2 Normanda Companion App

| Task | Time Needed | Responsable | Tested? | Priority | Stage |
|------|-------------|-------------|---------|----------|-------|
| Wiki | X Hour      | Gabriel     | Yes     | High     | NOT   |

- Nuno had a lot of problems with the creation of the NPC's ChatBox. After a week of work, Gabriel took the responsibility and Nuno started working with Inventory as he wanted to do it.
- Gabriel started working in the Wiki, but Bruno asked him to stop and wait for the class he would teach what is needed to do it.
- It came to my knowledge, from other students, that nuno wants to leave college.

# 10.2 Plans For The Nexts Sprints

#### 10.2.1 Plans For The Unity Game

| Task            | Time Needed | Responsable | Tested? | Priority | Stage       |
|-----------------|-------------|-------------|---------|----------|-------------|
| NPC's Waypoints | X Hour      | Gabriel     | No      | High     | Not Started |
| Item Store      | X Hour      | Gabriel     | No      | High     | Not Started |

#### 10.2.2 Plans For Companion App

| Task | Time Needed | Responsable | Tested? | Priority | Stage |
|------|-------------|-------------|---------|----------|-------|
| ?    | ?           | ?           | ?       | ?        | ?     |

#### 10.3 Objectives

Menus and the communication between player and npc was developed, being able to have sentences, related with the lore or not.

### 10.4 Backlogs

The Task in both game and the app backlogs weren't done as envisioned them. Inventory had a delay of a week, Nuno asked for more time.

### 10.5 Sprints

The majority of the tasks were completely done by their responsable, with the exception of the inventory that will be delayed and finished by it's responsable.

#### 10.6 Analysis

In this sprint, most of the work was accomplished in 4 days. Having problems with the development of the Inventory, Nuno, the responsable asked for more time to finish it.

#### 10.7 Tasks Review

All tasks of the game were accomplished with delays in the Inventory. The companion app had a delay as the group has an absurd difficulty with kotlin and android Studio.

In the table, it's not include the time to study and develop the logic. Just the time used to create the code and fix errors.

# 11. Fifth Sprint

# 11.1 Review And Retrospective

During the fifth sprint, the team focused on the behavior of the NPC's and the level design to illustrate better what the team desires with the game.

#### 11.1.1 Normanda Companion App

| Task  | Time Needed | Responsable | Tested? | Priority | Stage      |
|---|-------------|-------------|---------|----------|------------|
| NPC's Waypoints                             | 3 Hours     | Gabriel     | Yes     | High     | Completed  |
| Meeting With the Artist about the NPC's art | 2.5 Hours   | Gabriel     | N/A     | High     | Completed  |
| Player Level System                         | 1 Hour      | Gabriel     | Yes     | High     | Completed  |
| Inventory                                   | 20 Hours    | Nuno        | No      | High     | Incomplete |
| Neighborhood 1                              | 2 Hours     | Gabriel     | Yes     | Low      | Completed  |
| Dungeon 1                                   | 1 Hour      | Gabriel     | Yes     | Low      | Completed  |

#### 11.1.2 Normanda Companion App

| Task  | Time Needed | Responsable | Tested? | Priority | Stage     |
|-------|-------------|-------------|---------|----------|-----------|
| Stats | 1 Hour      | Gabriel     | Yes     | High     | Completed |

- In the game and in the Companion App, all the tasks were completed with the exception of the Inventory. Nuno asked for one more week to do it.
- During this week, Nuno realized he had made only 0.4% of the project and started talking about leaving college.

### 11.2 Plans For The Nexts Sprints

# 11.2.1 Plans For The Unity Game

| Task              | Time Needed | Responsable | Tested? | Priority | Stage       |
|-------------------|-------------|-------------|---------|----------|-------------|
| Item Store        | X Hour      | Gabriel     | No      | High     | Not Started |
| Slime King        | X Hour      | Gabriel     | No      | High     | Not Started |
| Enemies Animation | X Hours     | Gabriel     | No      | High     | Not Started |

#### 11.2.2 Plans For Companion App

| Task | Time Needed | Responsable | Tested? | Priority | Stage |
|------|-------------|-------------|---------|----------|-------|
| ?    | ?           | ?           | ?       | ?        | ?     |

### 11.3 Objectives

During the fifth sprint, the team focused on the creation of a full playable game level with enemies and their animations. Gabriel had a meeting with an artist that will help in creating art

#### 11.4 Backlogs

The Task in both game and the app backlogs were done as envisioned them.

### 11.5 Sprints

All the tasks by Gabriel were finished in 4 days. Nuno hasn't finished the inventory yet, asking more one week to finish it, if nuno doesn't finish the inventory by the end of the Sixth Sprint, Gabriel will be responsible for it.

# 11.6 Analysis

In this sprint, most of the work was accomplished in 4 days, Nuno still had a lot of difficulty with the inventory, and did not accept help from Gabriel.

#### 11.7 Tasks Review

Most of the tasks were accomplished with the delay of the inventory, and a reorganization of the backlogs for the companion app as the old backlog in focus wasn't learned.

# 12. Sixth Sprint

### 12.1 Review And Retrospective

During the sixth sprint, the team focused on the improvement of the Final Boss and correction of animation bugs which cost a lot to the computer process. With all of those jobs done, the average frame per second doubled (to 2100.).

#### 12.1.1 Normanda Companion App

| Task  | Time Needed | Responsable | Tested? | Priority | Stageno   |
|---|-------------|-------------|---------|----------|-----------|
| Bugs Fixed Based in<br>Testers              | 3 Hours     | Gabriel     | Yes     | High     | Completed |
| Meeting With the Artist about the NPC's art | 4 Hours     | Gabriel     | N/A     | High     | Completed |
| Final Boss Interest<br>Time                 | 1 Hour      | Gabriel     | Yes     | High     | Completed |
| Archer Animation                            | 1.5 Hour    | Gabriel     | Yes     | Low      | Completed |
| Archer Projectile<br>Animation              | 0.5 Hour    | Gabriel     | Yes     | Low      | Completed |
| Pause Menu                                  | 2 Hours     | Gabriel     | Yes     | Low      | Completed |
| Inventory                                   | 7 Hours     | Nuno        | No      | High     | Surrender |
| Inventory Done From the ground              | 8 Hours     | Gabriel     | Yes     | High     | Completed |

#### 12.1.2 Normanda Companion App

| Task | Time Needed | Responsable | Tested? | Priority | Stage     |
|------|-------------|-------------|---------|----------|-----------|
| Wiki | 4 Hours     | Gabriel     | Yes     | High     | Completed |

<sup>•</sup> In the game and in the Companion App, all the tasks were completed with the exception of the Inventory. Nuno finally accepts help and surrenders this task.

# 12.2 Plans For The Nexts Sprints

#### 12.2.1 Plans For The Unity Game

| Task                | Time Needed | Responsable | Tested? | Priority | Stage       |
|---------------------|-------------|-------------|---------|----------|-------------|
| Slime King Behavior | X Hours     | Gabriel     | No      | High     | Not Started |

| Soldier Animation | X Hour | Gabriel | No | Low  | Not Started |
|-------------------|--------|---------|----|------|-------------|
| Item Store        | X Hour | Gabriel | No | High | Not Started |

#### 12.2.2 Plans For Companion App

| Task | Time Needed | Responsable | Tested? | Priority | Stage       |
|------|-------------|-------------|---------|----------|-------------|
| Мар  | X Hours     | Gabriel     | No      | High     | Not Started |

#### 12.3 Objectives

The main objective of the Sixth Sprint was to have a full level developed, and everything working for the first Alpha of the game. Gabriel finished solving all the problems found in the game, including the feedback of the testers. Nuno was initially responsible for the inventory, having problems and asking for Gabriel to assume the task.

#### 12.4 Backlogs

The Task in both game and the app backlogs were done by Gabriel, having problems and the changes of responsibility. Nuno couldn't finish his Backlog.

#### 12.5 Sprints

The Tasks were completed by Gabriel during the first days of the sprint. Nuno gave up his task due to problems in the code.

Gabriel Managed to work and finish 90% of the inventory, the only thing that is in need to finish the inventory is to set items active for the player (Swords and Shields), potions are already working.

# 12.6 Analysis

In this sprint, most of the work done was accomplished in 9 days. Due to personal problems and problems inside the group, the inventory hasn't been finished properly, the inventory has an error due to the change of scene.

#### 12.7 Tasks Review

The tasks were accomplished with delays in the game area, something that will be compensated in the following weeks. The companion app has some problems so be solved, but nothing that will create problems in the future.

# 13. Seventh Sprint

### 13.1 Review And Retrospective

During the seventh sprint, the team focused on the change of values as the player has the item, and in the Store. Now, having most of the main features of the game implemented.

#### 13.1.1 Normanda Companion App

| Task                             | Time Needed | Responsable | Tested? | Priority | Stageno    |
|----------------------------------|-------------|-------------|---------|----------|------------|
| New Item? New<br>Values          | 4 Hours     | Gabriel     | Yes     | High     | Completed  |
| Reduction Damage if<br>Shield On | 0.5 Hour    | Gabriel     | Yes     | High     | Completed  |
| Dungeon 1                        | 1 Hour      | Gabriel     | Yes     | High     | Completed  |
| Item Store                       | 8 Hours     | Gabriel     | Yes     | High     | Completed  |
| Music                            | 3 Hours     | Nuno        | Yes     | Low      | Incomplete |
| SFX                              | 2 Hours     | Nuno        | Yes     | Low      | Incomplete |

#### 13.1.2 Normanda Companion App

| Task          | Time Needed | Responsable | Tested? | Priority | Stage      |
|---------------|-------------|-------------|---------|----------|------------|
| Мар           | 4 Hours     | Gabriel     | Yes     | High     | Completed  |
| 50% Challenge | 8 Hours     | Gabriel     | Yes     | High     | Incomplete |

 During this week, Nuno disappeared and wasn't answering any communication method. He came late saying "I'm spending time with my family, I will do 3 tasks and I will send you by github at the end of the holidays.".

# 13.2 Plans For The Nexts Sprints

#### 13.2.1 Plans For The Unity Game

| Task        | Time Needed | Responsable | Tested? | Priority | Stage       |
|-------------|-------------|-------------|---------|----------|-------------|
| Death Menu  | X Hour      | Gabriel     | No      | High     | Not Started |
| Checkpoints | X Hour      | Gabriel     | No      | High     | Not Started |

#### 13.2.2 Plans For Companion App

| Task            | Time Needed | Responsable | Tested? | Priority | Stage       |
|-----------------|-------------|-------------|---------|----------|-------------|
| Finish Training | X Hours     | Gabriel     | No      | High     | Not Started |

### 13.3 Objectives

The main objective of the seventh sprint was to have all the main features for combat done. Fixing problems, and rush with the companion app to have all the features on it.

#### 13.4 Backlogs

The Task in both game and the app backlogs weren't done as envisioned them. Nuno was responsible for the implementation of the music and sound effects, implementing only the music for the neighbourhoods and the walking SFX.

#### 13.5 Sprints

The item Store was finished on the first day of the sprint, having small problems that were solved in the second day (With Feedback of testers). That made the general work of the group faster.

### 13.6 Analysis

In this sprint, most of the work done was accomplished in 5 days. Having all of it done by Gabriel, the team will focus on the work of the next sprint, as we have time, we will improve the game for the delivery.

#### 13.7 Tasks Review

Gabriel worked in the Companion app, working in the logic for the training system, but having problems with the language (Kotlin). Bruno will give help to finish the development of the companion app. The work was mostly done as we envisioned, having delays on Nuno's work.

# 14. Eight Sprint

# 14.1 Review And Retrospective

During the Eight sprint, the team focused on fixing all the known bugs and sending the Build for testes. As soon as they report arrives, everything will be fixed.

The reports of the game came without any news about bugs. So it can be expected no bugs in the second delivery.

The Companion app is finished with all bugs found and possibly fixed.

#### 14.1.1 Normanda Companion App

| Task                          | Time Needed | Responsable | Tested? | Priority | Stageno                 |
|-------------------------------|-------------|-------------|---------|----------|-------------------------|
| Teleportation Bug             | 0.5 Hour    | Gabriel     | Yes     | High     | Completed               |
| NPC's Bug                     | 4 Hours     | Gabriel     | Yes     | High     | Completed               |
| Inventory Fixed and Optimized | 2 Hours     | Gabriel     | Yes     | High     | Completed               |
| Store Fixed and Optimized     | 1 Hour      | Gabriel     | Yes     | High     | Completed               |
| Rework All<br>Neighbourhoods  | 4 Hours     | Gabriel     | Yes     | Low      | Completed               |
| Second Dungeon                | 1 Hour      | Gabriel     | Yes     | Low      | Completed               |
| Presentation                  | 2 Hours     | Gabriel     | Yes     | High     | Completed               |
| Slime King Behavior           | 1 Hour      | Nuno        | No      | Medium   | Incomplete <sup>2</sup> |

- During the Eight Sprint, all the work was done by Gabriel.
- Nuno was questioned about his lack of help, he gave the fault for his broken computer.

#### 14.1.2 Normanda Companion App

| Task      | Time Needed           | Responsable | Tested? | Priority | Stage     |
|-----------|-----------------------|-------------|---------|----------|-----------|
| Challenge | 34 Hours <sup>3</sup> | Gabriel     | Yes     | High     | Completed |

<sup>&</sup>lt;sup>2</sup> The code was copied from Archers/Mages, without any difference. So, it will not be available for the second delivery and it was reported to the professors.

<sup>&</sup>lt;sup>3</sup> Due to problems in the code, Gabriel asked help for José Graça and João Dia, both of them couldn't understand the problem and assumed it to be a problem with the API. Bruno inverter and make it work properly.

### 13.2 Plans For The Nexts Sprints

#### 13.2.1 Plans For The Unity Game

| Task                                  | Time Needed | Responsable | Tested? | Priority | Stage       |
|---------------------------------------|-------------|-------------|---------|----------|-------------|
| Start the connection with the backend | X Hour      | Gabriel     | No      | High     | Not Started |

#### 13.2.2 Plans For Companion App

| Task                                  | Time Needed | Responsable | Tested? | Priority | Stage       |
|---------------------------------------|-------------|-------------|---------|----------|-------------|
| Start the connection with the backend | X Hours     | Gabriel     | No      | High     | Not Started |

# 14.3 Objectives

The main objective of the eighth sprint was to have everything ready and working for the second delivery with the best optimization possible in both Unity Game and Companion App.

### 14.4 Backlogs

The backlogs weren't done as we envisioned them, with the most of the responsibilities in one person only and the overwork during holidays, some features may not be as optimized as we wanted.

#### 14.5 Sprints

The optimization of the game and fixing bugs was complete and we are waiting for reports from our testers. As soon as new bugs are reported, they will be fixed to deliver the best experience possible.

#### 14.6 Analysis

In this sprint, most of the work done was accomplished in 4 days.

#### 14.7 Tasks Review

Gabriel worked in the Companion App, working in the logic for the training system, and in the Unity Game to optimize, fixing bugs and creating the Build for the testers. The companion app is done

### 12. General Structure

#### 12.1 GitHub Structure

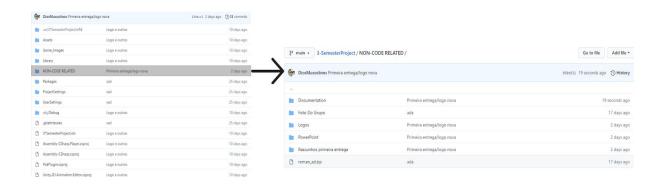


Github works by sharing documents and being able to change them without sharing the document, only the part that was changed is sended to a repository.

On the project, we will use GitHub to transport all the information in all the integrants of the groups. Normanda's GitHub has 10 folders, the Folder "NON-CODE RELATED" will be one of the most important ones, it is divided into 7 folders, "Documentation", "Foto Do Grupo", "Logos", "PowerPoint", "Rascunhos primeira entrega", "Rascunhos segunda entrega", "Rascunhos terceira entrega".

The folder for all the art is on github too. You can find it by "Assets", "Images&Animation". All the files related to art must be delivered there and organized by subject ("Player", "Enemy" or others), for the final division a nested folder for the characteristics of the art ("3D", "Icons", "Pixel" or others).

All the files will be shared by GitHub in a private repository that the team has access to, the public build will be left in a public repository that will mark the team as the creators.



#### 12.2 Slack



Slack is

an application to communicate in text, and share files. All the documents, art and functionalities of the game must be sent to slack to have opinions about it, and reports by professors as they must be in the group Channel.

#### 12.3 Google Docs Structure



All the documentation will be done in google docs, as completed, they will be exported as .pdf files to the GitHub folders. The Google Docs are available in miro to comments, but only the team has the possibility of direct change in the documentation.

# 12.4 Click Up Structure



On the project click up, there is only one folder, with 4 lists. "Unity Game", "Companion App", "Server/Database", and "PROBLEMS TO SOLVE". The responsibilities will be divided according to each folder, and the problems must be communicated in the "PROBLEMS TO

SOLVE" list, this list exists to expose every problem and bug that we have, setting it as "OPEN" the team will know that the problem exists, "IN PROGRESS" the team will know that someone is trying to fix it, and "Closed" the team will know that was solved.

### 12.5 Google Drive Structure



On google drive we have 3 main folders, "Sprint reports", "Documents", "Builds". Where we will leave the documents available to all the professors and others interested in this game.

In "Builds", there is a nested folder with comments about each build. These comments must show the stats of the game inside of the Unity Engine following the current example.