# **1 Introduction**

## 1.1 Purpose of application

The main goal of the project is to implement a simple but entertaining desktop game where two players can compete against each other. We aim to give the game a high replay value through both good level variety and design, and an interesting competitive aspect.

## 1.2 General characteristics of application

The game will be a desktop, single- or multi-player application with a graphical user interface for the Windows/Mac/Linux platforms.

The game will be in real-time, which means that the application handles input from both players simultaneously. There are no time constraints to the application; a round of the game will be finished when either player has brought the other players health to zero, or when cancelled manually.

## 1.3 Scope of application

In addition to playing the game against another human player, there is also the possibility of playing against an AI-controlled computer-player. The application will not record any data or statistics of previously completed game rounds.

## 1.4 Objectives and success criteria of the project

It should be possible for one or two players to play and finish a round of the game that is both entertaining and runs smoothly. The game does not need to be highly advanced or plastered with functions, but rather characterized by smart design and a high-end graphical appearance.

## 1.5 Definitions, acronyms and abbreviations

# **2 Requirements**

## 2.1 Functional requirements

The player(s) should be able to:

* Start a new game.

1. Select player vs. player or player vs. computer.

* Control their character.

1. Move their character in every direction.
2. Shoot their primary and secondary weapon in the direction the player is facing.

* Exit the application. This will end the ongoing round.

## 2.2 Non-functional requirements

### 2.2.1 Usability

The game should be easy to learn, but difficult to master. More specifically, normal users should be able to pick up the game and, with help from the manual, complete a game-round within a short period of time, while advanced users who are more used to computer gaming should understand the game right from the get-go without having to read the manual, but still be required to play several rounds to figure out the more advanced features and start forming their own strategies.

Tests with multiple users, both normal and advanced, should be performed to verify the usability. Test results should be part of the final documentation.

There should be an English user manual, introducing the game and explaining how to play it.

### 2.2.2 Reliability

### 2.2.3 Performance

### 2.2.4 Supportability

### 2.2.5 Implementation

### 2.2.6 Packaging and installation

### 2.2.7 Legal

## 2.3 Application models