**Product Specifications**

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# Modification History

2/26/2016 - Use Case Diagram modified to accommodate guest user specifications and history record.

2/26/2016 – Edited for consistency and clarity

# Major Milestones

|  |  |
| --- | --- |
| **Date** | **Milestone** |
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# Abstract

# Document References

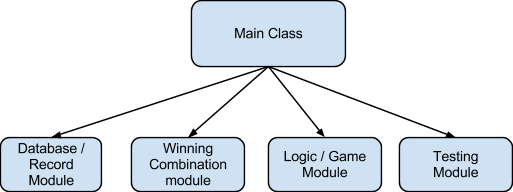
|  |  |
| --- | --- |
| **Document** | **Location** |
| Requirements | GitHub |
| Software Management Plan | GitHub |
| Specifications | GitHub |
| Minutes and Time Log | GitHub |

# Glossary

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| --- | --- |
| **Term** | **Definition** |
| Graphical User Interface | A graphical user interface is a human-computer interface (i.e., a way for humans to interact with computers) that uses [windows](http://www.linfo.org/window.html), [icons](http://www.linfo.org/icon.html) and menus and which can be manipulated by a mouse (and often to a limited extent by a keyboard as well). |
| 6x6x4 grid | A grid with 6 boxes on each side (6x6), consisting of 36 total units. The winner is the player with the most 4 stones(x4) in a horizontal, vertical, or diagonal row. |
| Tic tac toe | A game for two players who take turns marking the spaces in a grid. The player who succeeds in placing three respective marks in a horizontal, vertical, or diagonal row wins the game. |
| Single Player | A single-player video game is a video game where input from only one player is expected throughout the course of the gaming session. "Single-player game" usually refers to a game that can only be played by one person, while "single-player mode" usually refers to a particular [game mode](http://en.wikipedia.org/wiki/Game_mode) that is designed to be played by a single player, though the game also contains modes that can be played by several players simultaneously. |
| Multi-player | A multi-player video game is a video game in which more than one person can play in the same game environment at the same time. Computer and video games are often [single-player](http://en.wikipedia.org/wiki/Single-player_video_game) activities that put the player against pre-programmed challenges and/or [AI-controlled opponents](http://en.wikipedia.org/wiki/Non-player_character), which often lack the flexibility and ingenuity of regular human thinking. |
| User | A user is an [agent](http://en.wikipedia.org/wiki/Intelligent_agent), either a human agent (end-user) or [software agent](http://en.wikipedia.org/wiki/Software_agent), who uses a [computer](http://en.wikipedia.org/wiki/Computer) or [network](http://en.wikipedia.org/wiki/Computer_network) [service](http://en.wikipedia.org/wiki/Service_(systems_architecture)). A user often has a user account and is identified by a username (also user name). Other terms for username include login name, screen name (also screenname), [nickname](http://en.wikipedia.org/wiki/Nickname#Computing), or handle |
| Password | A password is a secret [word](http://en.wikipedia.org/wiki/Word) or [string](http://en.wikipedia.org/wiki/String_(computer_science)) of [characters](http://en.wikipedia.org/wiki/Character_(computing)) that is used for user [authentication](http://en.wikipedia.org/wiki/Authentication) to prove identity, or for [access approval](http://en.wikipedia.org/wiki/Authorization) to gain access to a resource. |

|  |  |
| --- | --- |
| **Acronym** | **Meaning** |
| GUI | Graphical User Interface |
| AI | Artificial Intelligence |

# Class Diagram



# Use Case Sequence Diagram

## Use case 1

### General Description

### Sequence Diagram

## Use case 2

### General Description

### Sequence Diagram

# User Interface

# Others