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| USER REQUIREMENTS SPECIFICATIONS | April 21  2015 | |
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# 1. INTRODUCTION

The goal of this project is to build a Ludo Application. Ludo is a board game for 2-4 players. Every player is assigned 4 pieces, a dice and one of 4 possible starting areas. The goal is to get all your pieces around the game board to the finish line. Players take turn at throwing the dice, which decides how for a piece can be moved. If you get a 6 you get an extra turn or you may enter another staged token to its starting square. When a player lands a piece on top on an opponent’s piece, the opponent’s piece is sent to the starting area. The general strategy is to make sure that your own pieces are not send to your starting area, and at the same time try to send the pieces of your opponents to their starting area. The rolls of a die control the swiftness of the tokens, and entry to the finishing square requires a precise roll from the player. The first to bring all their tokens to the finish wins the game.

# 2. FUNCTIONAL REQUIREMENTS AND USE CASES

# 2.1 REQUIREMENTS

|  |  |
| --- | --- |
| NBR | DESCRIPTION |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |

# 2.2 USE CASES

# Registration in the game

|  |  |
| --- | --- |
| Goal- level | Registering in the game |
| Pre-condition | The user is not registered in the game yet |
| Trigger |  |
| Actor | User |
| MSS | 1.The User fills the registering blank with his data  2. The User chooses an username and a password  3. The User clicks on the button “register”  4. System notifies User if his register was successfully |
| Extension | 2.1 If the username already exist, the system notifies the user to choose another username |
| Rule |  |
| Post Condition | The user successfully registered. |

# Log into the game

|  |  |
| --- | --- |
| Goal- level | To log in the game |
| Pre – condition | The user has to be already registered in the game |
| Trigger |  |
| Actor | User |
| MSS | 1. The User types the username 2. The User types the password |
| Extension | * 1. If the User has typed the username wrong, the system will notify the User with a message to retype it   2. If the User has typed the password wrong, the system will notify the User with a message to retype it |
| Rule |  |
| Post Condition | The user successfully logged in the game |

# Chat during the game

|  |  |
| --- | --- |
| Goal- level | To chat with opponent during the game |
| Pre – condition | 1.The game has already started |
| Trigger |  |
| Actor | User |
| MSS | 1.The User type a message in the chat box  2.The User receives a message in the chat box |
| Extension |  |
| Rule |  |
| Post Condition |  |

# 2.3. NON-FUNCTIONAL REQUIREMENTS

|  |  |
| --- | --- |
| **Nr** | Description |
| **1** | GUI should be easy to use |
| **2** | System should display outputs from one user to the others users within the same session |
| **3** | System should respond fast to user inputs |
| **4** | System should have stable connectivity in order to provide stable user interaction |
| **5** | System should relay information from one user to the other |
| **6** | System should display the output of the session to all current users within the session before ending the session |

# 2.4 MOSCOW

|  |  |  |
| --- | --- | --- |
| Nr | Description | MOSCOW |
| 1 | A player rolls a dice | M |
| 2 | A player moves his piece to the starting square | M |
| 3 | System notifies players of their opponents rolls | M |
| 4 | System updates to show opponents piece movements | M |
| 5 | A players chooses his color | S |
| 6 | When a player’s piece lands on an opponent’s piece, the opponents piece is then removed from its position and returned to the rest area | M |
| 7 | When a player’s piece lands on his own piece, the system will display both piece as being next to each other | W |
| 8 | A player can communicate with other players through the chat window | S |
| 9 | A player moves the number of squares he rolls | M |
| 10 | The system allows players to move his piece towards the victory area only when the roll equal to or smaller than the amount of squares between the players piece and the last unoccupied square of the victory area | M |
| 11 | A player can choose which piece he wishes to move | M |
| 12 | A player rerolls when rolling a six | M |
| 13 | System removes a player’s piece when an opponent’s piece lands on him | M |
| 14 | A player can only move his own piece | M |
| 15 | System displays the winner of the game | M |
| 16 | Players are able to join an ongoing game | C |
| 17 | Players are able to spectate ongoing games | W |
| 18 | When a room is full, players can no longer join | W |
| 19 | When starting a game, players are allowed to make private rooms | W |

# 3. GUI