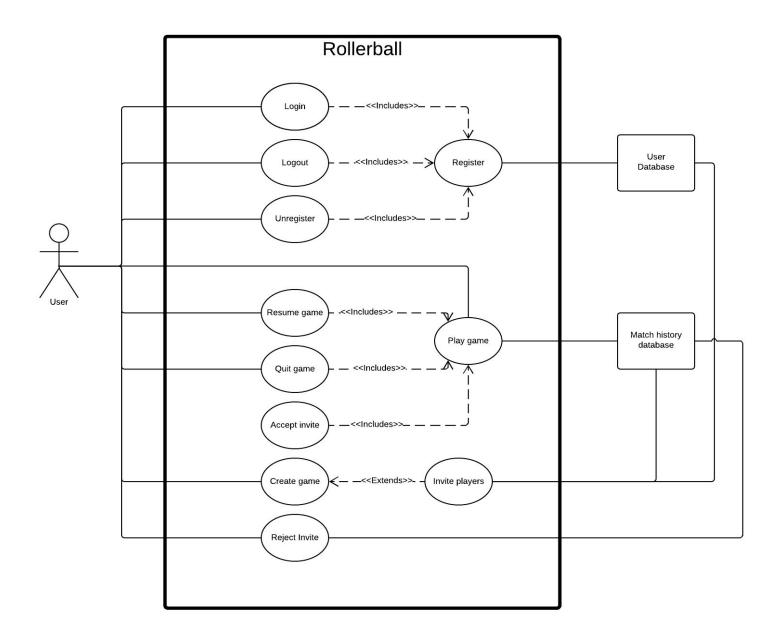
Rollerball Use Case Document

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Use case diagram



Logging in

Use case id:	1
Use case name:	Login
Brief description:	The player logs into the system.
Туре:	User Goal
Primary actors:	Player
Secondary actors:	User database
Pre-conditions:	1. Must be registered
Main flow:	Player enters username and password.
Alternate flow:	1.a Player does not exist in database 1. Extension point Register 1.b Player enters incorrect username or password 1. Restart Login process.
Post-conditions:	1. The player is now logged in

Logging out

Use case id:	2
Use case name:	Logout
Brief description:	The player logs out of the system
Туре:	User Goal
Primary actors:	Player
Secondary actors:	User database
Pre-conditions:	1.The player must be logged in
Main flow:	The player will choose to logout.
Alternate flow:	none
Post-conditions:	The player will be logged out of the system

Unregistering

Use case id:	3
Use case name:	Unregister
Brief description:	The user removes registration from user database
Type:	User Goal
Primary actors:	Player
Secondary actors:	User database
Pre-conditions:	Player is currently registered in the database
Main flow:	Player chooses to unregister account User database is updated removes player details
Alternate flow:	1.a. User declines to unregister during the process b. User database is not updated to remove player details c. Unregister process is cancelled
Post-conditions:	Player is unregistered and account details are no longer in the user database.

Registering

Use case id:	4
Use case name:	Register
Brief description:	The player creates an account with a unique username, email, and password.
Type:	User Goal
Primary actors:	Player
Secondary actors:	User database
Pre-conditions:	Username must be unique. Email must be unique. Password must fulfill requirements TBD at a later time.
Main flow:	 Player provides email, username, and password. System checks for unique username and email. System updates User database. Player is registered
Alternate flow:	2.a. Username/Email is not unique. b. Restart registration process
Post-conditions:	Player is registered Player's login information is stored in the user database.

Resuming a game

Use case id:	5
Use case name:	Resume game
Brief description:	The player may resume a game that has already been started.
Type:	User Goal
Primary actors:	Player
Secondary actors:	Match History Database
Pre-conditions:	A game must already be started A player must be logged in
Main flow:	The player will Resume in the game lobby
Alternate flow:	The game does not exist
Post-conditions:	1. The game will be resumed

Quitting a game

Use case id:	6
Use case name:	Quit game
Brief description:	Quit the game that the player is currently in.
Type:	User Goal
Primary actors:	Player
Secondary actors:	Match history database
Pre-conditions:	1. The player is in a game
Main flow:	 The player chooses to quit the game The match history database is updated to show that the player left The other player is notified that the player quit
Alternate flow:	The player decides not to quit the game
Post-conditions:	The player can no longer play the game The match history database shows that the player quit The other player has been notified that the player quit

Accepting a game invite

Use case id:	7
Use case name:	Accept Invite
Brief description:	A player will be able to accept an invite sent from another player
Type:	User Goal
Primary actors:	Player
Secondary actors:	None
Pre-conditions:	The player must be logged in The invite must not be accepted by anyone else
Main flow:	The player will Accept Invite in the game lobby
Alternate flow:	The game was not accepted by the player a. Use case reject game.
Post-conditions:	The game was accepted The game is started

Playing the game

Use case id:	8
Use case name:	Play game
Brief description:	Two players take turns taking actions. The game ends when a win condition is met for one of the players
Туре:	User Goal
Primary actors:	Player
Secondary actors:	User database, Match history database
Pre-conditions:	Both players have joined a game against each other
Main flow:	 Player takes a move System checks impact of the move Win condition is not met, next players turn, repeat step 1 and 2 Win condition is met Game ends
Alternate flow:	During player's move, player leaves the game During player's move, other player leaves the game
Post-conditions:	The game is over and the Match history database records the results

Creating a new game

Use case id:	9
Use case name:	Create game
Brief description:	Create a new rollerball game that the player can invite others to.
Type:	User Goal
Primary actors:	Player
Secondary actors:	None
Pre-conditions:	Player must be registered.
Main flow:	Player chooses to create game. Extension point Invite players
Alternate flow:	Player cancels creation of game. a. Created game is erased.
Post-conditions:	A new game is created that invited players can join.

Inviting players to a new game

Use case id:	10
Extension use case:	Invite players
Brief description:	When a match is created, player may invite other players to join.
Туре:	User Goal
Primary actors:	Player
Secondary actors:	User database
Pre-conditions:	 Player has created a new game. Player is logged in. Invited player(s) exists.
Main flow:	Player selects one or more players to invite to play. Invite is sent to other players immediately.
Alternate flow:	Player cancels create game. a. Created game is erased.
Post-conditions:	1. A new game has been created with invites sent to other players.

Rejecting a game invite

Use case id:	11
Use case name:	Reject Invite
Brief description:	Player rejects the invite from another user to play the game
Туре:	User Goal
Primary actors:	Player
Secondary actors:	None
Pre-conditions:	Player must have been invited.
Main flow:	 Player gets new game invite notification. Player rejects the invite. Player that sent the invite is notified of rejection.
Alternate flow:	2.a. Player ignores the game invite. 2.b. Player accepts game invite. 1. Use case Accept Invite.
Post-conditions:	1. Invitation has been rejected