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CSCI 5448  
11/9/2015

**Use Case needed for selected use case**

<b>Use Case ID:</b>	UC-011
<b>Use Case Name:</b>	Select game
<b>Description:</b>	The user can select either any game in the arcade.

<b>Actors:</b>	User		
<b>Pre-condition:</b>	User launched the application. User is logged in.		
<b>Post-condition:</b>	The user is start playing the selected game.		
<b>Frequency of use:</b>	Each instance of the application.		
<b>Flow of events:</b>			
	<b>#</b>	<b>Actor action</b>	<b>System response</b>
	1	Select game	Game name is stored and game interface is launched
<b>Variations:</b>	None.		
<b>Notes and issues:</b>			
<b>Developer notes:</b>			

<b>Use Case ID:</b>	UC-011
<b>Use Case Name:</b>	Select player mode
<b>Description:</b>	The user can select either single player mode or two player mode.

Actors:	User		
Pre-condition:	The user launched the application.		
Post-condition:	The user is either in single player mode or in two player mode.		
Frequency of use:	Each instance of the application.		
Flow of events:			
	#	Actor action	System response
	1	User login in the application	Set up of arcade interface
	2	Select game	Game name is stored and game interface is launched
	3	Select mode	Set up platform response of the selected game depending on selection made
Variations:	None.		
Notes and issues:			
Developer notes:			

<b>Use Case ID:</b>	UC-021
<b>Use Case Name:</b>	Single Player Mode
<b>Description:</b>	The user can play any game in the arcade in single player mode (against the AI).

Actors:	User		
Pre-condition:	Application is started. User is logged in.		
Post-condition:	The user can play any game against the AI.		
Frequency of use:	Each instance the user selects single player mode and selects a game to play.		
Flow of events:			
	#	Actor action	System response
	1	Select game	Game name is stored and game interface is launched
	2	Select mode single player	AI is set up for the game selected
Variations:	None.		
Notes and issues:			
Developer notes:			

<b>Use Case ID:</b>	UC-022
<b>Use Case Name:</b>	Two Player Mode
<b>Description:</b>	The users can play any game in the arcade in two player mode (against each other).

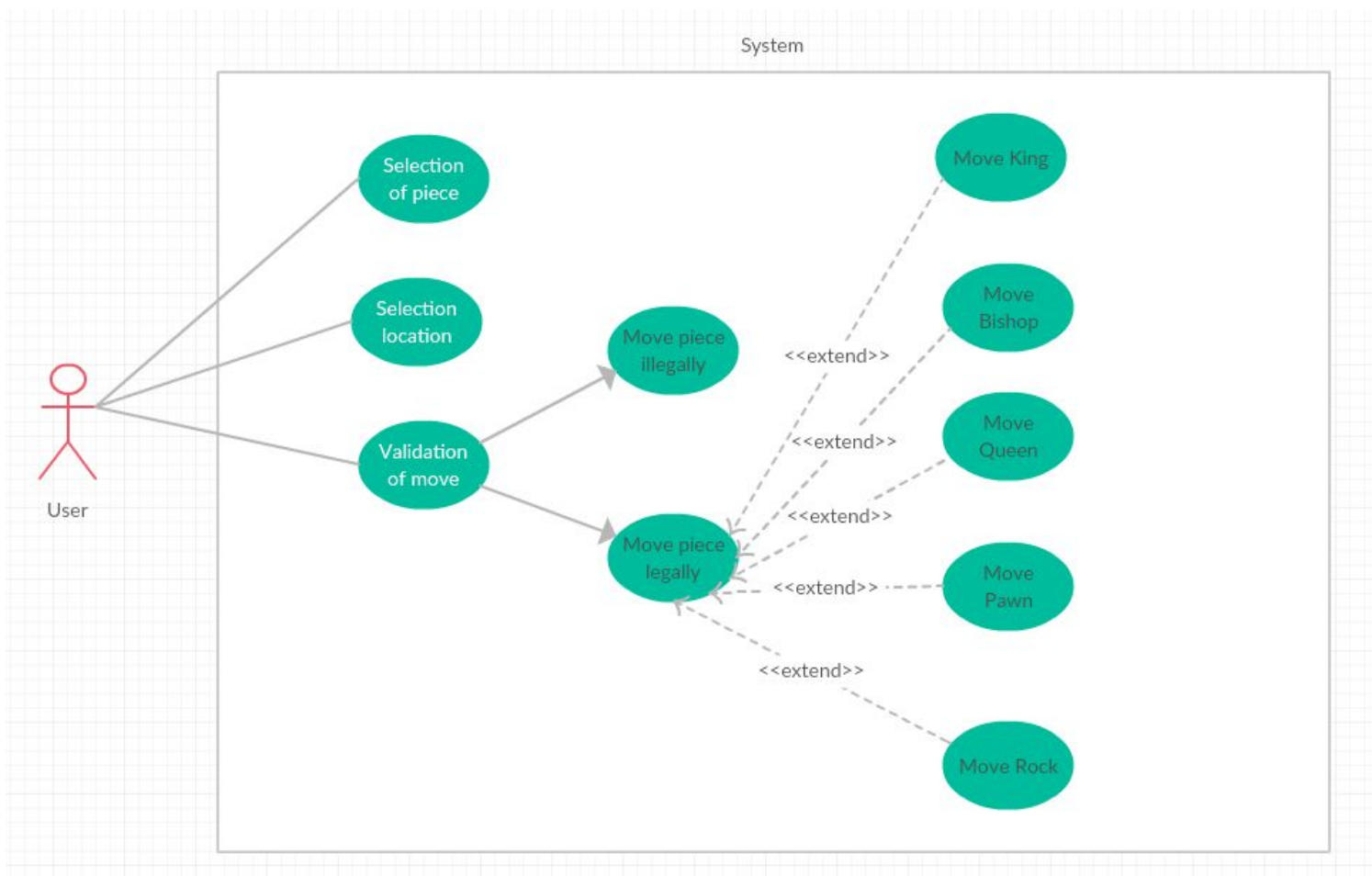
Actors:	User											
Pre-condition:	Application is started. User is logged in.											
Post-condition:	The users can play any game in the arcade in two player mode (against each other).											
Frequency of use:	Each instance the user selects two player mode and selects a game to play.											
Flow of events:	<table><tr><th>#</th><th>Actor action</th><th>System response</th></tr><tr><td>1</td><td>Select game</td><td>Game name is stored and game interface is launched</td></tr><tr><td>2</td><td>Select mode dual player</td><td>Interface is setup and system awaits a player to execute a move</td></tr></table>			#	Actor action	System response	1	Select game	Game name is stored and game interface is launched	2	Select mode dual player	Interface is setup and system awaits a player to execute a move
#	Actor action	System response										
1	Select game	Game name is stored and game interface is launched										
2	Select mode dual player	Interface is setup and system awaits a player to execute a move										
Variations:	None.											
Notes and issues:												
Developer notes:												

### Use case to be analyzed: Execute Move in Chess Game

<b>Use Case ID:</b>	UC-041
<b>Use Case Name:</b>	Execute Move Chess
<b>Description:</b>	The user executes a move in the game of chess.

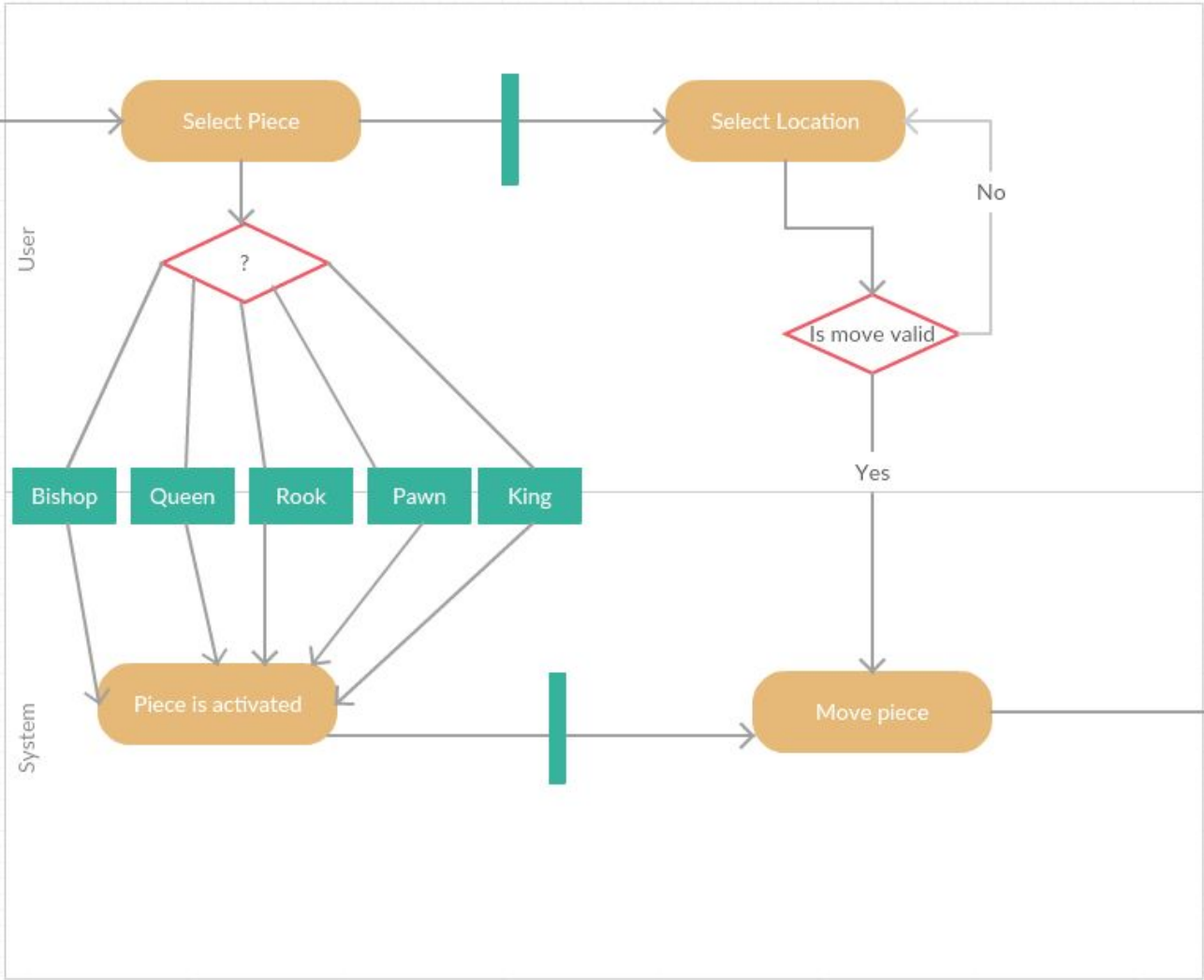
Actors:	User														
Pre-condition:	A game of chess has been launched in either single or two player mode. Player has been switched														
Post-condition:	A user's desired move is executed.														
Frequency of use:	When player is switched and the game has not yet been won or tied.														
Flow of events:	<table><tr><th>#</th><th>Actor action</th><th>System response</th></tr><tr><td>1</td><td>Current player select piece to move</td><td>Piece is selected and returned to user</td></tr><tr><td>2</td><td>Destination of selected piece is chosen</td><td>The location of the piece is identified and stored</td></tr><tr><td>3</td><td>Confirmation of the move of the piece</td><td>Piece is moved to stored location</td></tr></table>			#	Actor action	System response	1	Current player select piece to move	Piece is selected and returned to user	2	Destination of selected piece is chosen	The location of the piece is identified and stored	3	Confirmation of the move of the piece	Piece is moved to stored location
#	Actor action	System response													
1	Current player select piece to move	Piece is selected and returned to user													
2	Destination of selected piece is chosen	The location of the piece is identified and stored													
3	Confirmation of the move of the piece	Piece is moved to stored location													
Variations:	If an invalid move is selected, the move is not executed.														
Notes and issues:															
Developer notes:															

### Use Case Diagram for UC-041



**Class Diagram for UC-041**

Activity Diagram UC-041



Sequence Diagram UC-041

