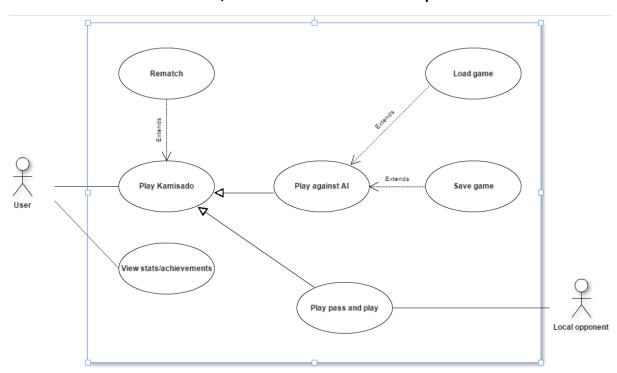
Niklavs Meiers, Ben Hubbard CS207 task 1 requirements



Use cases description

Use case: Play Kamisado

Brief description: Lets user play a game of Kamisado

Primary actor: User

Precondition: The user has selected that they wish to play Kamisado.

Main Flow:

1) The user selects to play a game of kamisado.

2) The user is then presented with options to either play local multiplayer or single player

3) (For Flows on either, see below)

Postcondition: user is brought to another menu

Use case: Play against Al

Brief description: Play against AI (Inherits from play Kamisado as it is extra functionality)

Primary actor: User

Precondition The user has selected that they wish to play Kamisado.

Main Flow:

- 1) The user then selects that they wish to play Against an Al opponent.
- 2) User now sets the game configurations

- a) They choose which game mode (either speed mode and standard 1 point game)
- b) What difficulty of AI
- c) Decide if they want to be player 1 or 2
- 3) The game then starts
 - a) When it is the users turn, they select desired move
 - b) If move is valid, piece is moved and board updated
 - c) Next player's turn
- 4) The game is either saved for later play, or they have finished and the game has exited.
- 5) Stats update.

Postcondition: The user has concluded their game or saved it, stats have been updated.

Use case: Play pass and play

Brief description: Play against another player on the same machine (Inherits from play Kamisado as

it is extra functionality)

Primary actor: User

Precondition: The user has selected that they wish to play Kamisado.

Main Flow:

- 1) The user then selects that they wish to play a pass and play game (local multiplayer).
- 2) User now sets the game configurations
 - a) They choose which game mode (including speed mode and standard 1 point game)
- 3) The game then starts
 - a) When it is the users turn, they select desired move
 - b) If move is valid, piece is moved and board updated
 - c) Next player's turn
- 4) The users have finished and the game has exited.
- 5) Stats update.

Postcondition: The user has concluded or exited their local two player game, stats have been updated.

Use case: View user stats

Brief description: View win/loss ratios for games against AI as well as achievements and match

history

Primary actor: User

Precondition: The user has entered their username.

Main Flow:

- 1) User selects view stats from main menu
- 2) Stat file is checked to not be empty

- 3) Stats are displayed to the user
- 4) User then returns to the main menu when finished

Alternative Flow:

- 3.1) Message displayed to user indicating no stats to display
- 4) user is returned to the main menu

Postcondition: The stats are displayed to the user.

Use case: Save game

Brief description: Saves the current board state (extends play against AI)

Primary actor: User

Precondition: The user is currently playing against an AI opponent.

Main Flow:

- 1) User selects save game option when it is their turn
- 2) User then names the save
- 3) Checks if name has already been taken
- 4) Displays message that it has been successfully saved
- 5) The game then resumes on their turn and the user has the option to exit

Alternative Flow:

- 4.1) Name has already been taken, appropriate message displayed.
- 5) Allows user to retry or return to game

Postcondition: The current board state has been saved to a new file.

Use case: Load game

Brief description: Loads previously saved board state (extends play against AI)

Primary actor: User

Precondition: The user has selected a valid saved game in which to load.

Main Flow:

- 1) The user selects a save file name to load
- 2) The user is then put into the game where they left off
- 3) Game is played out with the saved games settings and modes

Alternative Flow:

- 2.1) no saved game to load
- 3) displays message

Postcondition: The selected file has been correctly loaded and ready for user interaction.

Use case: Rematch

Brief description: Allows you to play with the same settings as the previous game (keeps a tally for

best of n)

Primary actor: User

Precondition: The user has just finished a game.

Main Flow:

1) After the game is over the user selects button rematch

- 2) They are then presented with a settings screen so they can choose how many single point matches they would like to play
- 3) A game then starts with settings supplied by user in previous stage
 - a) A counter of player 1 and 2s win/loss is displayed
- 4) The number of games specified in the settings is then played

Alternative Flow:

4.1) Or saved partial way through (only in games against the AI)

Postcondition: The win/loss is then displayed for the user after completion, stats are updated

Features:

- 1. Multiple different difficulty levels for AI(easy and hard)
- 2. Game mode where players must make their move within a set amount of time
- 3. Al must make its move within 5 seconds
- 4. Present user stats and achievements
- 5. Player can pick its team colour
- 6. Player should be able to use keyboard to navigate
- 7. Available hints for single player game
- 8. Rematch button to replay the same opponent (Best of ..)
- 9. Undo button for single player
- 10. Customise username
- 11. A game menu
- 12. Save board state to a file
- 13. Load game from a file

	1	2	3	4	5	6	7	8	9	10	11	12	13
Play Kamisado		*				*				*	*		
Play against AI	*		*		*		*		*				
Play pass and play					*								
View user stats				*		*							
Save game												*	
Load game													*
Rematch								*					