# Milestone 3 - Revised

## Concurrent Poker Player Team

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#### **Operation Contracts**

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- CO3: raise
- CO4: check
- CO5: fold

#### TO BE ADDED:

#### Package Diagram

## System Diagrams

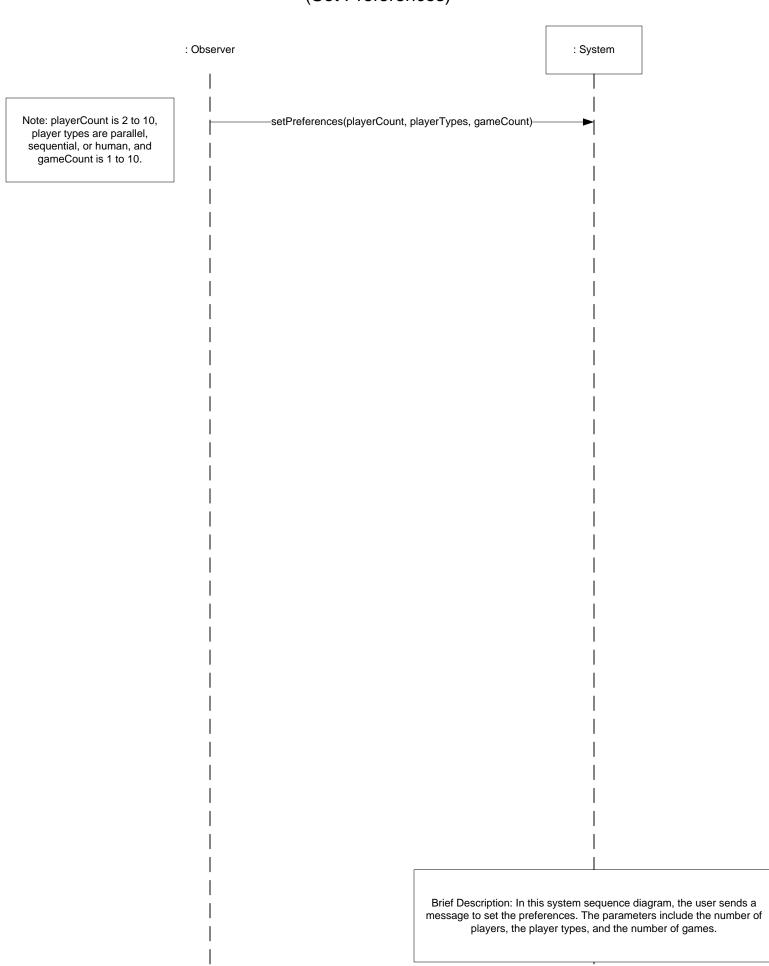
- Set Preferences
- Begin Game
- Make Move
- Display Round Statistics
- Display Game Statistics

Class Diagram

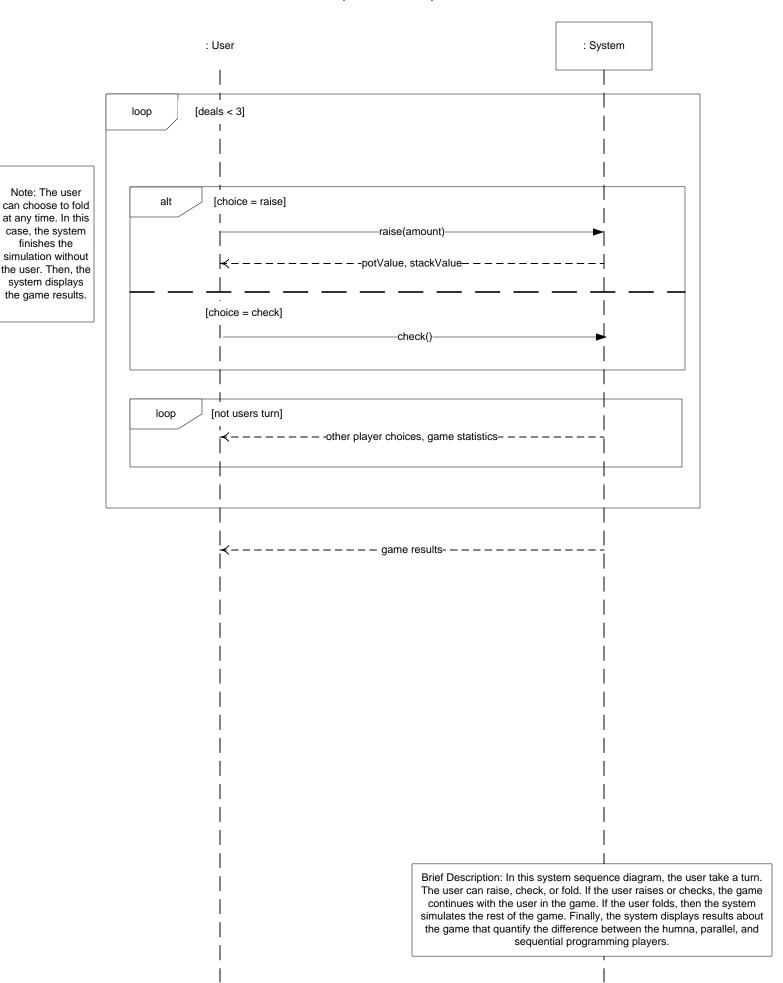
## SSD – Use Case 1 (Start Game)



## SSD – Use Case 2 (Set Preferences)



## SSD – Use Case 3 (Take Turn)



### **Contract CO1: startGame**

**Operation:** startGame()

Cross References: Use Cases: Start Game

**Preconditions:** The system is set to create a game with two players – one sequential

and one parallel.

**Postconditions:** An instance of Game, *game*, was created

An instance of gameStatistics, gameStats, was created Attributes of gameStats were set based on simulation

## **Contract CO2: setPreferences**

**Operation:** setPreferences(playerCount, playerTypes{List}, gameCount)

**Cross References:** Use Cases: Set Preferences

**Preconditions:** The application has initialized properly

Parameter menus are functioning properly
An instance of Game, game, was created

**Postconditions:** game.playerCount was set to playerCount

game.gameCount was set to gameCount

player, an instance of HumanPlayer, was created

Instances of other Players were created corresponding to each

playerType

#### Contract CO3: raise

Operation:raise(amount)Cross References:Use Cases: Take TurnPreconditions:The game is in play

It is the user's turn in the game

An instance of Game, game, was created

player, an instance of HumanPlayer, was created

Instances of other Players were created

**Postconditions:** game.pot was increased by amount

player.stack was decreased by amount

## **Contract CO4: check**

check() Operation:

**Cross References:** Use Cases: Take Turn **Preconditions:** The game is in play

> players{list} are playing game player[i] is currentPlayer player[i+1] is nextPlayer

**Postconditions:** player[i]'s turn ended

player[i+1]'s turn began

## **Contract CO5: fold**

Operation: fold()

**Cross References:** Use Cases: Take Turn **Preconditions:** The game is in play

> players{list} are playing game player[i] is currentPlayer player[i+1] is nextPlayer player[i]'s turn ended

**Postconditions:** player[i+1]'s turn began

player[i] was removed from players{list}