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Title: 00 Poker

Project Summary: A modified Poker Game, specifically Texas Hold 'em, where users are only given three opportunities to check/fold or bet chips (when dealt cards, after "flop" and after "flip"). We will store player data such as username, winnings, etc. in a database incorporated within our final system.

Project Requirements:

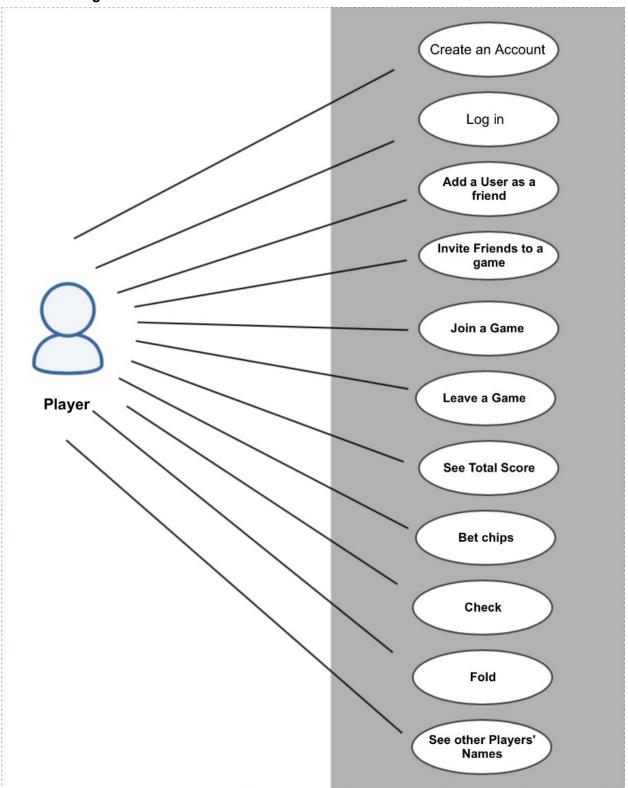
There are no Business requirements.

User Requirements				
ID	Description	Priority		
UR-01	As a player, I want to able to create an account so I can play a game.			
UR-02	As a player, I want to log into my existing account so that I can continue my progress over time.			
UR-03	As a player, I want to be able to add other users as friends so I can easily find their accounts again			
UR-04	As a player, I want to invite friends to a game so that we can play together.			
UR-05	As a player, I want to join games so that I can play without starting my own.			
UR-06	As a player, I want to leave games whenever I want so that I don't have to keep the program running.			
UR-07	As a player, I want my score kept track of so I can see my progress.	Medium		
UR-08	As a player, I want to receive more chips after an hour of running out so that I can continue to play.	Low		
UR-09	As a player, I want to be able to bet during a game to increase the current stakes at the table.	Critical		

UR-10	As a player, I want to be able to check during a game to avoid spending more chips.	Critical
UR-11	As a player, I want to be able to fold during my turn so that I can end my hand.	Critical
UR-12	As a player, I want to be able to see other player's names so I can see who I am playing with.	Medium

Non-Functional Requirements			
ID	Description		
NFR-01	<u>Usability</u> - The player must have a general understanding of Texas Hold'em.		
NFR-02	<u>Usability</u> - The player must have a general understanding of how to use a computer (clicking links, signing up for a user account, etc.)		
NFR-03	Reliability - The system must exit gently in the case of failure.		
NFR-04	Reliability - The system should be able to support at least 100 different games of up to 8 players in size		
NFR-05	Reliability - The system should store credentials securely, not in plain text.		
NFR-06	Reliability - The system must be accessible by player 24/7.		
NFR-07	Reliability - The system must automatically save high scores after each score update.		
NFR-08	Performance - The system will be able to store up to 500,000 users and scores		
NFR-09	Performance - The system must update the game immediately after each interaction by the player.		
NFR-10	Supportability - The system should be maintained on a daily basis by the maintenance group.		
NFR-11	Supportability - The system must be compatible with common operating systems offered by the market		
NFR-12	Implementation - The player must have access to the internet from his/her platform to get complete access to system features.		
NFR-13	Interface - The data must be exported/imported to a server maintained by the maintenance group		
NFR-14	Packaging - The system must be installed by the player		
NFR-15	Legal- The system must be licensed to the implementation team.		
NFR-16	Legal - The development team is not legally responsible for reliability issues with the system		

Use Case Diagram

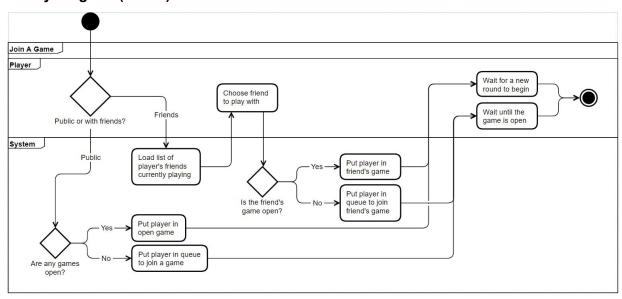


Use Case Documents:

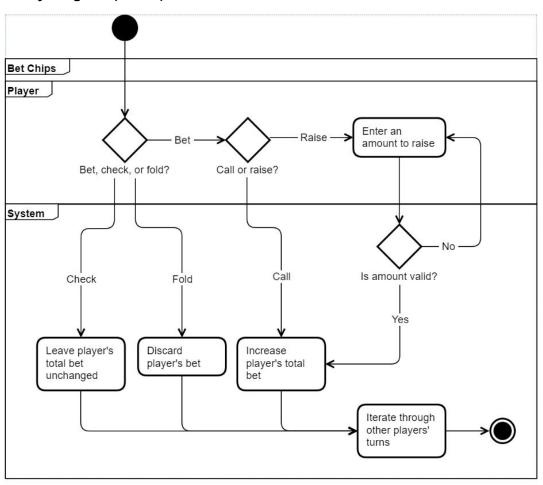
Use Case ID:	UC-05				
Use Case Name:	Join a Game				
Description:	Player joins a table to play cards.				
Actors:	Player.				
Pre-conditions:	Player has an account and is signed in. Player does not start own game.				
Post- Conditions:	Player has spot at table.				
Frequency of Use	Three or more time per week.				
Flow of Events:					
		Actor Action	System Response		
	1	User selects play game option.	System prompts user to join a public game or invite friends.		
	2	User selects join public.	System finds game with less than 8 people already in session via joinGame().		
	3	User waits until a new round starts.			
Variations:	Player is unable to join a game due to no available spots. Player joins a game with friends.				
Exceptions:					
Developer Notes:	If all tables are full then a new table will begin.				

Use Case ID:	UC-08				
Use Case Name:	Bet Chips				
Description:	Player selects amount of chips to bet - amount left is updated.				
Actors:	Player.				
Pre-conditions:	Player is in a game. Player has been dealt cards. Player is either 1. Before "Flop" 2. After "Flop" before "Flip" 3. After "Flip".				
Post- Conditions:	Player selects chip amount to bet - amount remaining is updated. Chips selected are entered into the table's pot.				
Frequency of Use	Between 0 and 3 times per game.				
Flow of Events:					
		Actor Action	System Response		
	1	Player selects bet during their turn.	System calls bet() method in Choice class		
	2	Player enters an amount to bet.	Amount is accepted by bet(), which calls updatePot() in the Poker class, and updates the player's current chip count		
Variations:	Player bets an amount greater than their current holdings. Player checks. Player folds.				
Exceptions:					
Developer Notes:	A conditional to check that player bets an amount equal to or greater than holdings.				

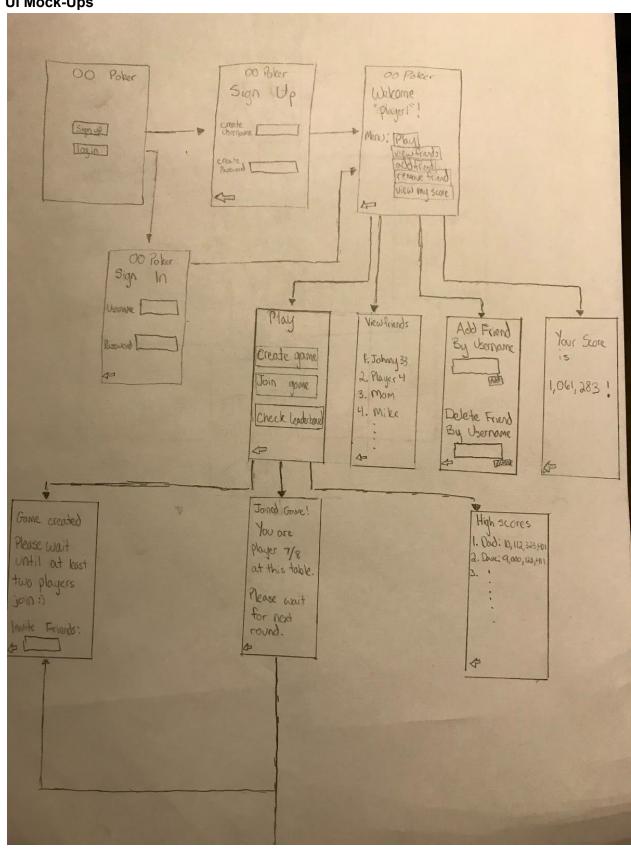
Activity Diagram (UC-05)

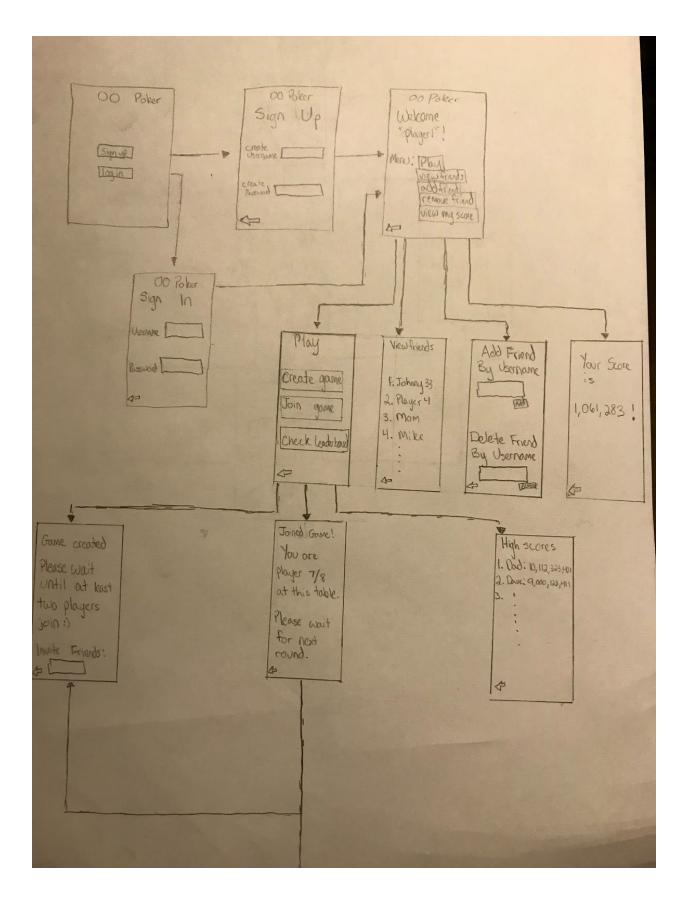


Activity Diagram (UC-08)

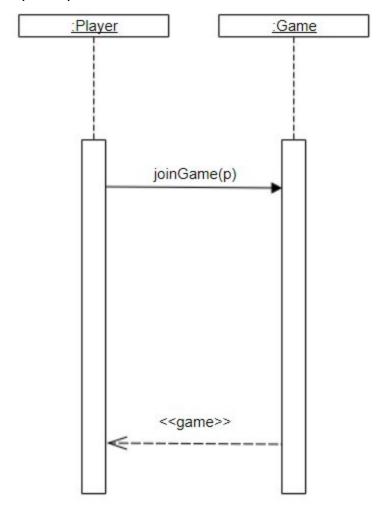


UI Mock-Ups

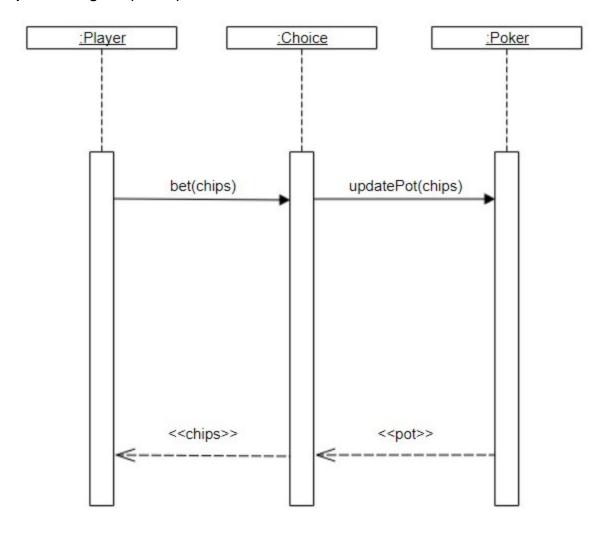




Sequence Diagram (UC-05)



Sequence Diagram (UC-08)



Class Diagram

