

# Queen's Poker

## *Ver 1.0*

Developed by Queen Studios  
*In affiliation with UCI*

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## Glossary

**Hand Rankings** - The value system that determines which players hands wins the pot

**Royal Flush** - A straight flush including ace, king, queen, jack, and ten all in the same suit, which is the hand of the highest possible value when wild cards are not in use.

**Straight Flush** - Any straight with all five cards of the same suit. A straight has all 5 cards in a sequence.

**Four of a Kind** - Four of a kind, also known as quads, is a hand that contains four cards of one rank and one card of another rank

**Full House** - Any three cards of the same rank together with any two cards of the same rank.

**Flush** - A flush is a hand of playing cards where all cards are of the same suit.

**Straight** - A straight is a hand that contains five cards of sequential rank, not all of the same suit

**Three of a Kind** - Three of a kind, also known as trips or a set, is a hand that contains three cards of one rank and two cards of two other ranks.

**Two Pair** - Two pair is a hand that contains two cards of one rank, two cards of another rank and one card of a third rank.

**Pair** - A pair is a hand with two cards of equal rank and three other cards which do not match these or each other.

**High Card** - High card, also known as no pair or simply nothing, is a hand that does not fall into any other category.

**Pot** - Sum of money players bet in a single game

**Community Cards** - Cards that are placed face up on the table that all players can utilize for their own hands. Dealt out in stages.

**Pre-Flop** - The stage before the flop, first round of betting

**The Flop** - 3 cards are dealt face up, this is the second round of betting in poker

**The Turn** - The second to last stage, one card is put face up on the table, this is the third round of betting in poker

**The River** - The last stage, one last card is put face up on the table, this is the last round of betting in poker

**Big Blind** - Forced amount a player must put in the pot to start the betting, usually twice the amount of the small blind, player to the left of the player who paid small blind has to pay.

**Small Blind** - Forced amount a player must put in the pot to start the betting, usually half the amount of the big blind, player to the left of the dealer has to pay.

**Fold** - Act of ending participation in a particular hand

**Call** - Player's action to match another player's bet or raise

**Raise** - Player's action of making a bet towards the pot

**Check** - Action to pass to the player on the left without any betting

## Overview

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Introduction: Our app will be an online enabled poker game that will run on a remote server that handles user game data from multiple devices. The game handling will take place mainly on the server, however there will be checks in place on the client side to reduce traffic.

Our goal is to build a multiplayer poker game.

GUI Demonstration: Our application will have a simple GUI utilizing the GTK library.



(Made by Neel)

Main Features:

The main features of the game will include:

- Client and server side rule checking to reduce visual inconsistencies in allowed player moves
- Tutorial for new users
- Individual player balances
- Auto logout lobby option
- Turn timer
- Massively Multiplayer, you can choose from an onscreen of what IP you would like to play against.

Furthermore, our app will include a menu in which the player will be able to configure the settings or their lobby, or alternatively, join an existing lobby given a lobby code. The lobby options are outlined in the “User Input” section.

## Installation

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### System Requirements:

| System Characteristic | Recommended specification                         |
|-----------------------|---|
| Processor             | 64-bit Opteron, EM64T                             |
| RAM                   | 1 GB or Higher                                    |
| Swap space            | 1 GB or Higher                                    |
| Disk space            | 500 MB of Free Space                              |
| Operating System      | Linux Kernel Stable Release 5.0+ (Latest: 5.17.1) |

### Installation:

To run the program, simply unzip the directory with “tar -xvf poker.tar.gz”, then navigate to the bin folder of the user package, and run the program with “./poker”. To build from source using the source package, follow the same step to unzip, then execute “make” in the project directory, and follow the same instructions to run.

### Uninstallation:

Simply delete the binary and supporting files. To do this, open a terminal window, navigate to the directory containing the unzipped directory, and remove it with “rm -rf poker”.

## Documentation of functionality

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### Menu:

- Game Settings:
  - Enable big blind small blind
  - Select player count
  - Set turn time limit
  - Host a game vs. join a game
- Tutorial Page
  - We will have a mini tutorial page. This prints the rules of the game to the console so that the user can understand how the game works.
- Multiplayer page
  - This page will have options to select who you would like to play against. Computer or massively online.

### User Input/Output:



- All Input will be handled via gui buttons. There will be an action bar for each game phase that consists of the viable moves for that phase. These include fold, check, raise and call. There will also be a disconnect button that closes the socket to the remote server.

## Copyright and Licensing

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## Contact Information

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## Error

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Error Code 3: Corresponds to unable to make a network connection

Error Code 1: Illegal Move Made

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