Poker game

(Project Charter)

Team 3

So Mi Choi, Bo Heon Jeong, Hanchen Li, Sang Rhee, Yixin Wang, Yuying Wang

Project Charter

Problem Statement:

People need to have fun gambling without losing actual money online. An interactive Texas Hold'em game can be created to satisfy this need.

Project Objectives:

Our project will create an interactive poker game written in Java that can support up to 8 players by the end of the semester. It will have the following features.

- GUI:
    - 2D graphics, accomplished with a Java 2D graphics library.
    - 2D sprites for each of the 52 cards in a deck.
    - Simple animations for the cards during dealing, folding, showdowns, etc.
    - On-screen buttons for user actions such as raise, fold, check, etc.
    - Add sounds for the animations.
- Networking:
    - One player can host a game and wait for other players to join. Then the host can start the game as long as there are at least 2 players.
    - Spectators can join/leave games to watch the game.
    - Players can exit, but not join, an ongoing game.
- Game:
    - Program backend will manage the game state in accordance with Texas Hold'em rules.
    - Deck will be properly shuffled each hand.
    - Will keep track of game statistics such as number of hands played, how many hands won, best hand, etc.
    - Time limit for player actions, with countdown on the GUI.
- Possible extras:
    - Calculate and display probabilities of winning for each player for the spectators.
    - Ability to have multiple games hosted and allow new players to search for and join one they choose.

Stakeholders:

- Users: Casual gamers
- Customers: Casual games companies or gambling websites
- Software developers: Sang Rhee, Somi Choi, Yixin Wang, Hanchen Li, Yuying Wang, Boheon Jeong
- Development managers: State Farm, Project coordinator

Project Deliverables:

- A full-featured Texas Hold'em game written <u>in Java</u> that can be played locally between up to 8 players <u>with a GUI for desktops/laptops</u> will be delivered.
- A functional and intuitive GUI with smooth animations
- A reliable networking module that allows users to create games or join another game.