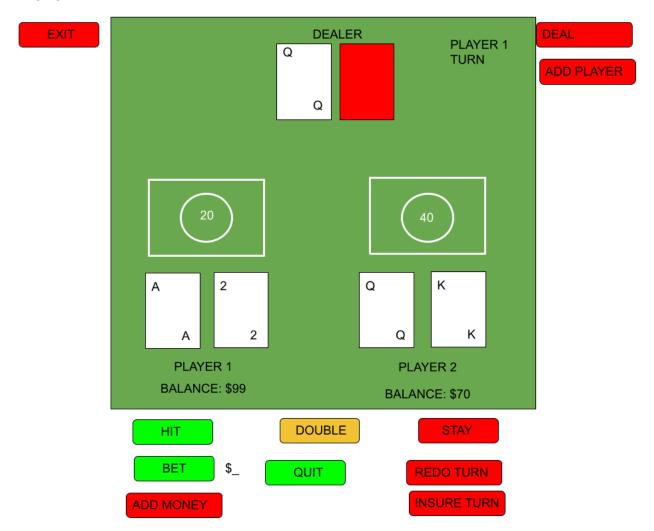
## PROTOTYPE:



## **USER FEEDBACK:**

- Feedback: Gabe Arias
  - Hit, Double, Stay Buttons
    - Great location
    - Good colors
    - Other buttons need to follow this
  - Deal Button
    - Cards should have faces on them
    - Buttons that can't be used should be different
  - Start Game
    - Buttons are in weird places
    - Graphic view is very clean + informative

- Need to make buttons more organized + color coordinated
- Need a total card count button (for ace for example)
- Need to know when to quit
- Hit, Double, Stay Buttons great location easy for use

## **GAME FLOW:**

- ADD PLAYER
  - Adds a new player to the view
  - Can only add inbetween deals
- DEAL
  - Starts the round by prompting each player to bet or quit
  - If they guit it moves to the next player or stops if no players
  - If they want bet they will be able to buy a redo turn or insure turn before they place their bet, then once they bet it moves to next player
  - Once all players bets are in, it rotates back to the first player to hit, double(if they have enough money), or stay. This also goes to each player.
  - If a player busts they can use a redo turn.
  - Then the dealer goes and hits until 17 or higher.
  - Once the dealer is finished money is distributed accordingly
  - If a player lost but bought insurance they get their money back
  - The round is now over
- BET
  - Takes money out of balance and put it on table in front of the player
  - Not available to players with no money
  - Moves to next player up
- QUIT
  - Pays out player
  - Removes player and goes to next player
- REDO TURN
  - Adds power up for the player for this turn
  - Then blocks it out so they can't buy it twice
- INSURE TURN
  - Adds power up for the player for this turn
  - Then blocks it out so they can't buy it twice
- HIT
  - Deals the current player another card
  - If a player has a redo gives them an option to use it
  - If player busts and has a redo turn it automatically uses it
  - If player busts and doesn't have a redo turn goes to next player
  - If they don't bust they have the option to hit again or stay
  - Then goes to next player
- DOUBLE
  - A player can double down on their first hit but they don't get another hit after that no matter what, moves to the next player

- STAY
  - Moves to the next player
- ADD MONEY
  - When a player is up they always have the option to add more money to their account
- EXIT
  - Ends game board

```
CLASSES(Not including dialog classes and graphic items):
```

```
Struct Chip{
       QColor color_;
       Int value_;
}
Enum class Suit (hearts, diamonds, spade, club)
Struct Card{
       Int card value;
       Suit suit_;
       Int deck;
       Bool dealt_;
}
Class Player{
       Private:
              String name_;
              Int money_;
              vector<Card> cards_;
       Public:
              Int get_money();
              Void add_money(int m);
              Void remove_money(int m);
              vector<Card> get_cards();
              Void add_card(Card c);
              Void clear_cards();
}
Class Board{
       Private:
              vector<Card> dealers_cards_;
              Int num of decks;
              vector<Card> cards_;
              Card top_card_;
              Int count_;
```

```
Public:
              vector<Card> get_dealers_cards();
              Void clear_dealer_cards();
              vector<Card> get_cards();
              Card deal_next_card();
              Void shuffle_cards();
              Int get_count();
}
Class Game{
       Private:
              vector<Player*> players_;
              Board *board_;
       Public:
              vector<Player*> get_players();
              Void add_player(Player* p);
              Void remove_player(Player* p);
              Void deal();
              Void takeTurn(Player *p);
              Void hit(Player *p)
              Void double(Player* p)
              Void Stay(Player* p);
              Void quit(Player* p)
              Void addMoney(Player* p);
              Void exit();
}
```