Monopoly Simulator

Description:

We are going to create a simulator for a very well know game Monopoly where the players roll the dice, get a chance to buy and sell properties, and eventually try to become the wealthiest investor with the most monopolies. Part of our simulator will be player join screen, chance cards and community cards that can both benefit and hurt the investor's plans, jail screen, and a personal bank account screen that will monitor each investor's cash flow.

Key for Diagrams

Input Areas - Text is Gray

Output Areas - Text is Red

Player Join Screen

Name   Player

Choose Token Shape

Choose Token Color

Functionality

In this screen, one can choose from the following of his or her choice:

- Player Name
- Token Shape
- Token Color

The screen will create a new character based on each players' preferences

Game board

Players roll
the dice

Players move
the tokens X
spaces

Functionality

This is where players roll dice to move their tokens, land
on properties, get chances to receive chance or
community cards, and get into jail.
When a player buys a property, the space that property
is on will turn the player's token color.

Cards

<table>
<tr><td>Chance Card</td></tr>
</table>

<table>
<tr><td>Community Card</td></tr>
</table>
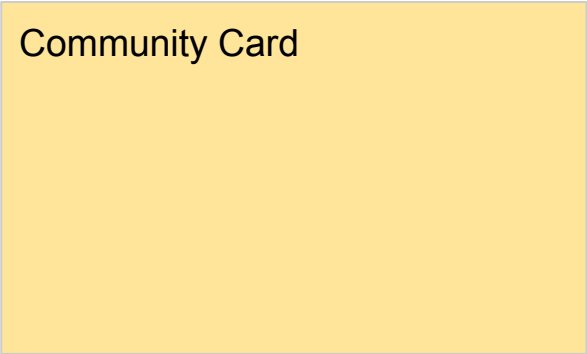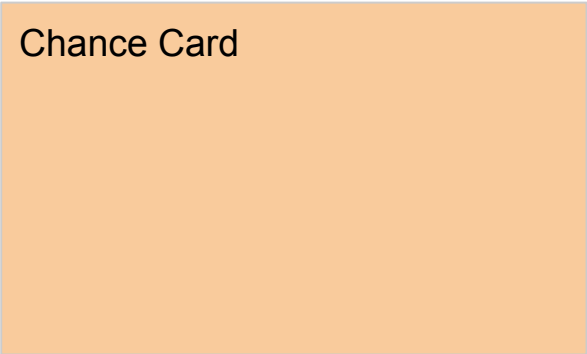
Functionality

In this screen, the player receives either a Chance Card or the Community Card based on what space the player landed on. This screen will also keep track of the player's cards and display them to each player.

Pick Card:

Chance   Community

Choose Player	You Have These Cards:
Player 1	Card 1
Player 2	Card 2
Player 3	Card 3
Player 4	Card 4

You're in Jail! Roll to Get Out!

Functionality

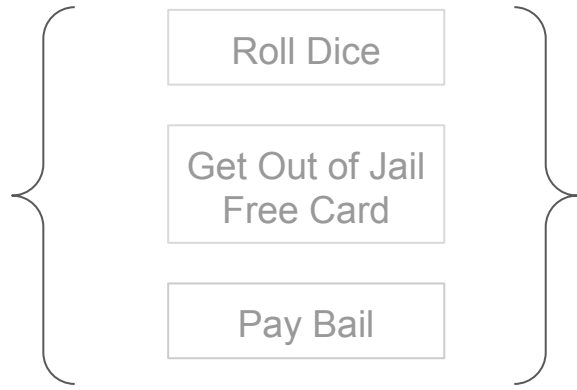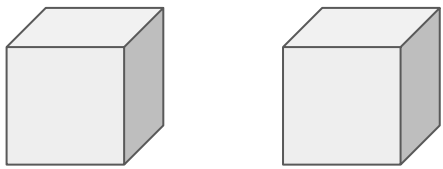In this screen, the player lands on the space that makes him to go to the jail. The player gets a chance to roll the dice for a chance to get out of the jail.

Roll Dice

Get Out of Jail Free Card

Pay Bail

If the player rolls doubles, has a get out of jail free card, or has enough money to pay for bail, this screen will get them out of jail. If they fail to roll doubles, don't have enough money for bail, or don't have a get out of jail free card this screen will tell them they failed to get out of jail.

Get out of Jail

Stay in Jail

Bank

500	
100	
50	
20	
10	
5	
1	

Pay Rent/Service
To: Player Name
Amount: 0.00

Buy Property
Property Name: Name
Amount: 0.00

You Currently
Have:
$0.00
0 Properties
0 Services

Functionality

In this screen, we can see each player's personal bank account. This is where players can access their total money, pay for rent or services, or buy properties from the bank.