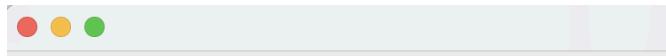


For UI testing we were unable to use an automated tool because the program is inherently random. Everytime you roll a dice, where you end up could be different so there is no good way to utilize something like Selenium. We opted to manually test and document expected results and actual results in this document.

Case 1:

Input:



Monopoly

Sign In

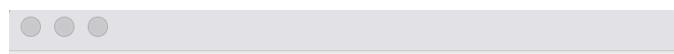
A screenshot of a sign-in form. The form has a light gray background and contains two input fields: "User name:" followed by an empty text input, and "Password:" followed by an empty text input. Below the inputs is a blue "Enter" button. The entire form is contained within a rounded rectangular border.

Don't have an account? [sign up](#)

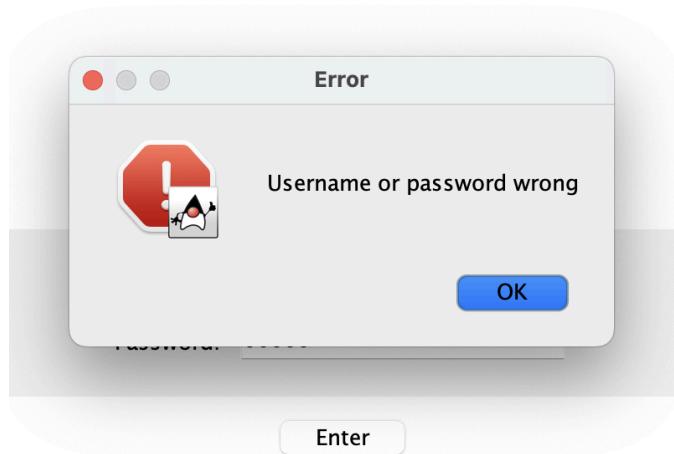
Action: enter wrong username and password

Expected output: error message for wrong username or password

Actual output:



Monopoly

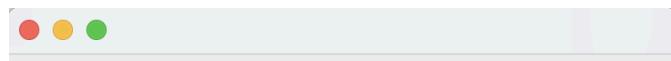


Don't have an account? [sign up](#)

Test Result: Successful

Case 2:

Input:



Monopoly

Sign In

User name:

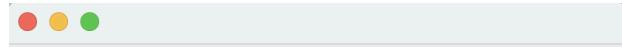
Password:

Don't have an account? [sign up](#)

Action: enter correct username and password

Expected output: main screen

Actual output:



Monopoly

New Game

Join

Change Password

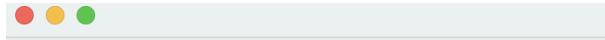
Game Rules

Sign Out

Test Result: Successful

Case 3:

Input:



Monopoly

New Game

Join

Change Passwo...

Game Rules

Sign Out

Click Game Rules

Expected Output: Show game rule screen

Actual Output:

GameRules.pdf
Page 1 of 4

MONOPOLY®

THE MONOPOLY GAME RULES: STANDARD OR LONG RULES

Object The object of the game is become the wealthiest player through buying, renting and selling property.

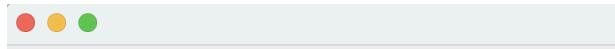
Equipment The equipment consists of a board, 2 dice, tokens, 32 houses and 12 hotels. There are 16 Chance and 16 Community Chest cards, a Title Deed card for each property (28 total) and play money (7 denominations, 30+ copies of each).

Preparation Place the board on a table and put the Chance and Community Chest cards shuffled & face down on their allotted spaces on the board. Each player chooses one token to represent him/her on his/her travels around the board. Each player is given \$1,500 divided as follows: 2x \$500's; 4x \$100's; 1x \$50; 1x \$20; 2x \$10's; 1x \$5; and 5x \$1's. All remaining money and other equipment go to the Banker.

Banker Select as Banker a player/volunteer who will also make a good Auctioneer. If the Banker

Test Result: **Successful**

Case 4:



Monopoly

New Game

Join

Change Passwo...

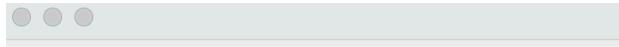
Game Rules

Sign Out

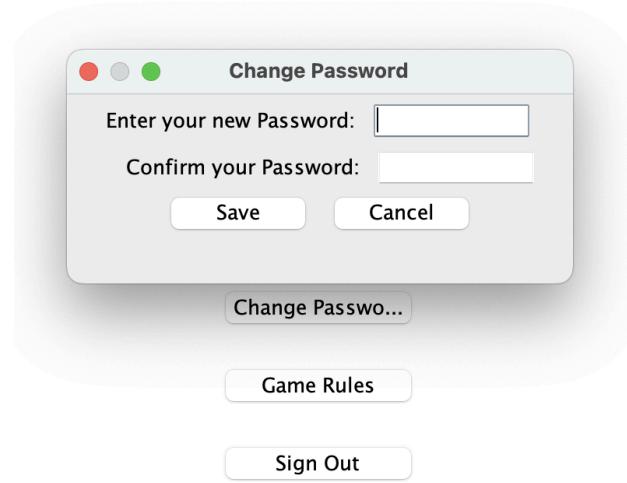
Input: Click Change Password

Expected Output: Display panel to change password

Actual Output:



Monopoly



Input: Enter new Password

Expected Output: Go back to homescreen

Actual Output:

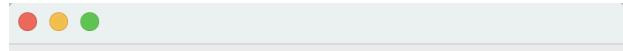


Test Result: Failed

Clicking Save is stuck on the change password page

Case 3:

Input:



Monopoly

New Game

Join

Change Passwo...

Game Rules

Sign Out

Action: New Game, enter available port and player number as 1, then select “start game”

Expected output: game screen

Actual output:

User Name: john
Your Balance: 1500 M
Players:
john

Send New Request

Estates you own:

Toss dice

Buy a House/Hotel **Sell a House/Hotel** **mortgage** **unmortgage**

Exit

Case 4:

User Name: john
Your Balance: 1500 M
Players:
john

Send New Request

Estates you own:

Toss dice

Buy a House/Hotel **Sell a House/Hotel** **mortgage** **unmortgage**

Exit

Input: Toss Dice

Scenario: Dice lands on a House location

Expected Output: Prompt that asks if the user wishes to buy a house. Player chess piece moved from the starting spot

Actual Output:



Input:

User Name: john
Your Balance: 1500 M
Players:
john

Send New Request

Estates you own:

Toss dice

Buy Street
Do you want to buy this street?
Yes **No**

Properties shown on the board include: Park Lane, Chance, India Avenue, Illinois Avenue, Atlantic Avenue, Vermont Avenue, Water Works, Marine Gardens, Go To Jail, Pacific Avenue, North Carolina Avenue, Community Chest, Pennsylvania Avenue, Short Line, Park Place, Luxury Tax, Boardwalk, Income Tax, Baltic Avenue, Community Chest, Mediterranean Avenue, and a Chance card.

Select No on "Buy Street" prompt

Expected Output: No address added to "estates you own" and player balance is not reduced
Actual Output:

User Name: john
Your Balance: 1500 M

Players:
john

Send New Request

Estates you own:

Toss dice

The "Estates you own" section is highlighted with a red border.

Properties shown on the board include: Park Lane, Chance, India Avenue, Illinois Avenue, Atlantic Avenue, Vermont Avenue, Water Works, Marine Gardens, Go To Jail, Pacific Avenue, North Carolina Avenue, Community Chest, Pennsylvania Avenue, Short Line, Park Place, Luxury Tax, Boardwalk, Income Tax, Baltic Avenue, Community Chest, Mediterranean Avenue, and a Chance card.

Test Result: Successful

Case 5:

Input:

Online Monopoly!

User Name: john

Your Balance: 1500 M

Players:

john

Send New Request

Estates you own:

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|------|-------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| GO TO JAIL | M150 | WATER WORKS | GO TO JAIL | M150 |
| JAIL | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 |
| PARK PLACE | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 |
| BALTIC AVENUE | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 |
| MEDITERANEAN AVENUE | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | |
| LUXURY TAX | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | |
| ELECTRIC COMPANY | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | |
| ST. CHARLES AVENUE | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | |
| NEW YORK AVENUE | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | |
| TENNESSEE AVENUE | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | |
| COMMUNITY CHEST | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | |
| PENNSYLVANIA AVENUE | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | |
| SHORT LINE | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | |
| COMMUNITY CHEST | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | |
| PARK PLACE | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | |
| JAIL | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | M150 | |

Buy a House/Hotel

Sell a House/Hotel

mortgage

unmortgage

Toss dice

CONNECTION AVENUE



VERMONT AVENUE



ORIENTAL AVENUE



INCOME TAX



COMMUNITY CHEST



MEDITERRANEAN AVENUE



IRONWORKS



ASYLUM



COLLECT PAY 50 AS IT PASSES



GO TO JAIL



PACIFIC AVENUE



NORTH CAROLINA AVENUE



Short Line

PARK PLACE

LUXURY TAX

ELMWOOD

AVENUE

AVENUE

Input: Toss Dice

Scenario: Dice lands on “luxury tax”

Expected Output: Player piece at Luxury tax panel, and player balance reduced by 100

Actual Output:



Test Result: Successful

Case 6

Input:



Toss Dice

Scenario: Dice lands on “community chest”

Expected output: Prompt shows up displaying the benefit the user gets

Actual output



Input: click ok

Expected output: user balance adds by 10

Actual output:



Test Result: Successful

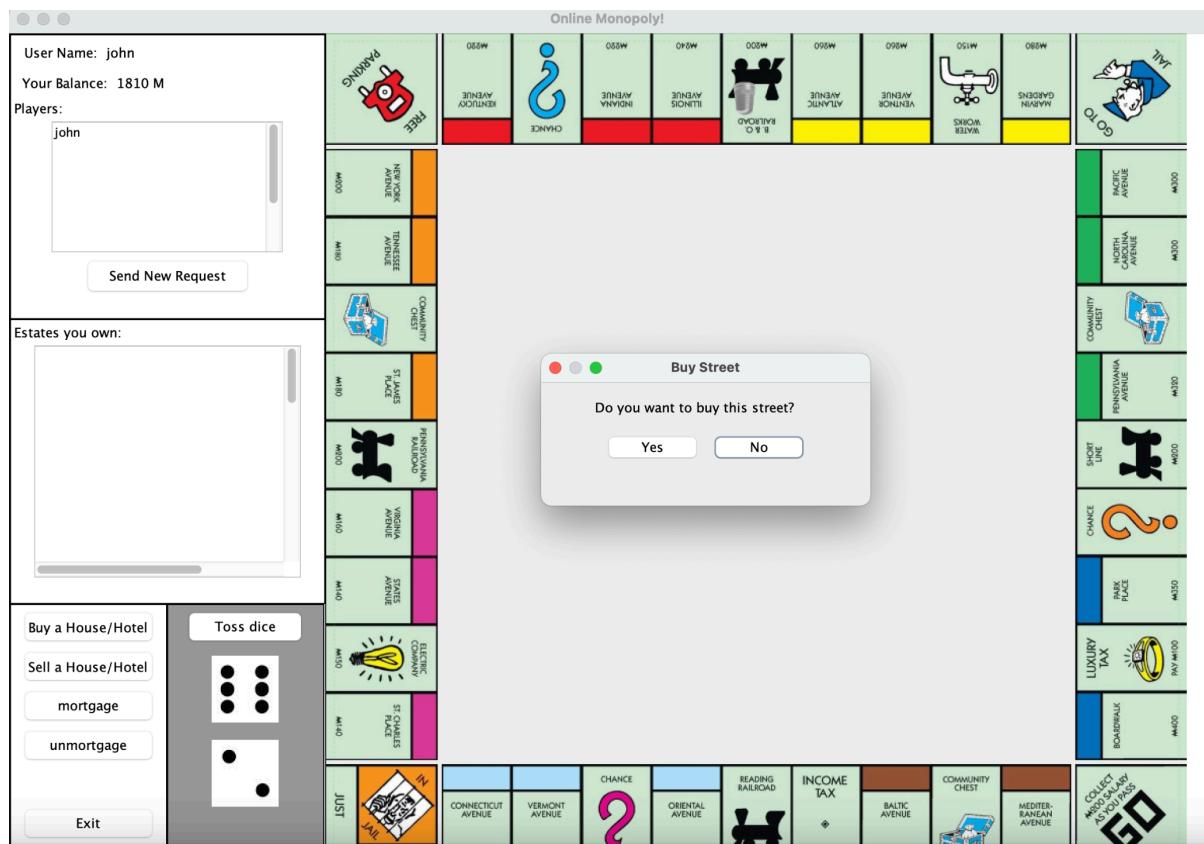
Case 7

Input: Toss Dice

Scenario: User lands on a railroad panel

Expected Output: Prompts if user want to buy street

Actual Output



Input: Click Ok

Expected output: Railroad added to "states you own", balance reduced by price of the property.

Actual output:



Test Result: Successful

Case 8:

Input: Toss Dice

Scenario: Lands on "goto jail"

Expected output: Prompt that the user will goto jail

Actual output:

Online Monopoly!

User Name: john

Your Balance: 1380 M

Players:

Send New Request

Estates you own:

St.JamesPlace
B&ORailroad

Message

you will go to jail

OK

Buy a House/Hotel

Sell a House/Hotel

mortgage

unmortgage

Toss dice

Input: click ok

Expected output user piece moved to “in jail” panel

Actual output:

User Name: john

Your Balance: 1380 M

Players:

john

[Send New Request](#)

Estates you own:

St.JamesPlace
B&ORailroad

[Buy a House/Hotel](#)

[Sell a House/Hotel](#)

[mortgage](#)

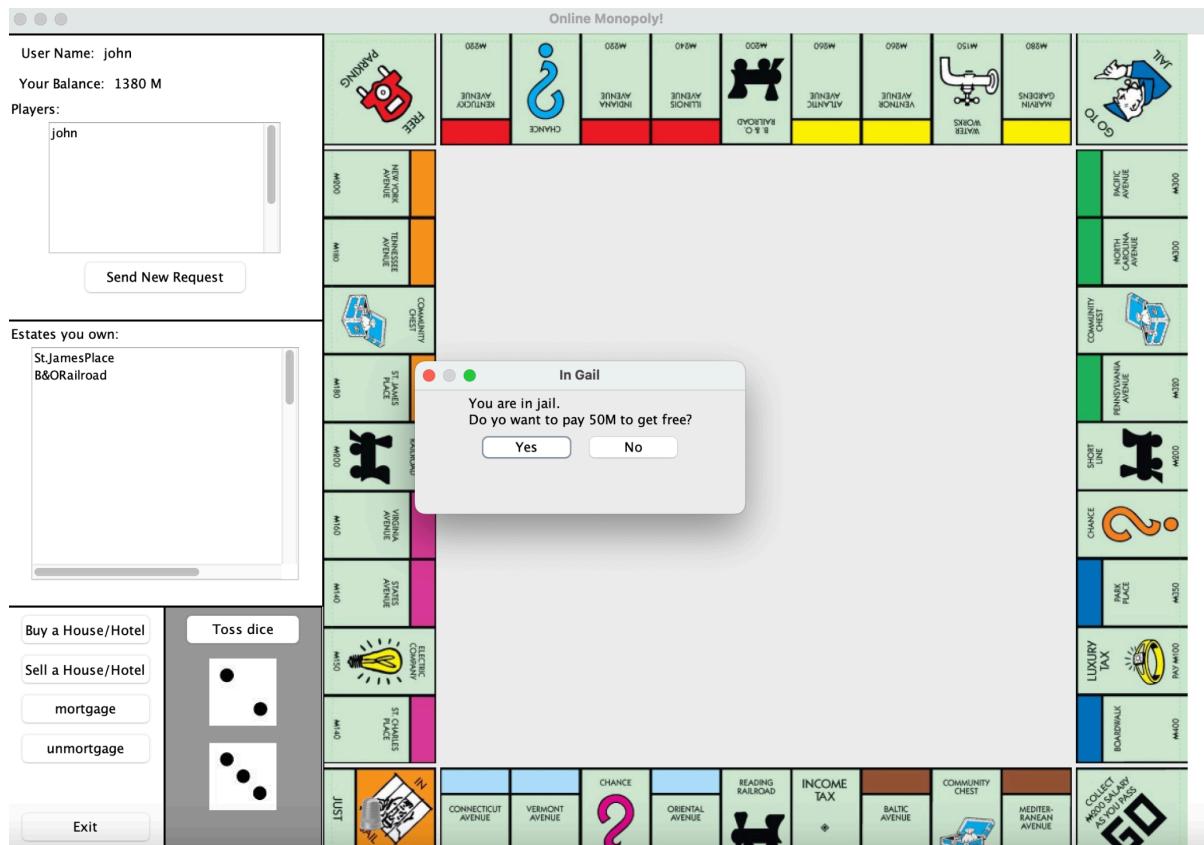
[unmortgage](#)

[Toss dice](#)

Input: click toss dice

Expected output: Asks user if they want to pay 50 to get out of jail

Actual output:



Input: No

Expected output: Player does not move and remain in jail

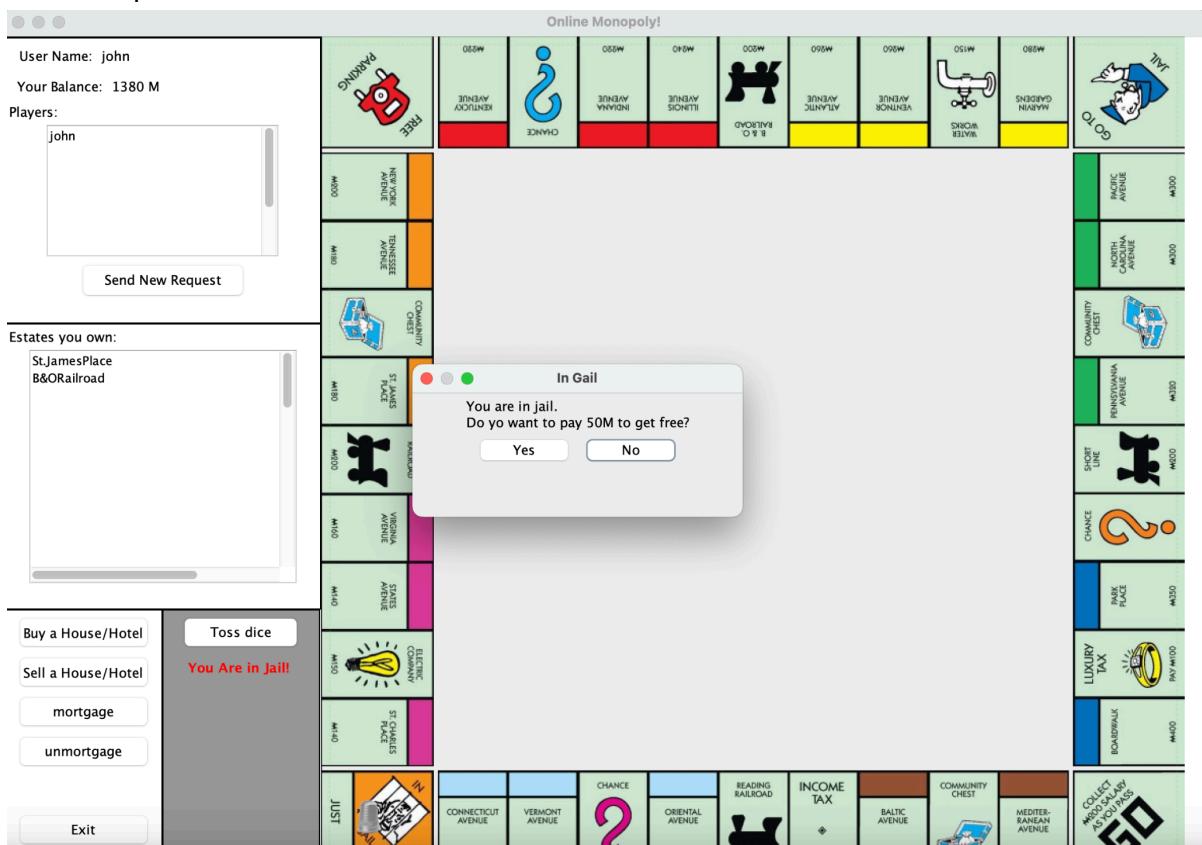
Actual output:



Input: Click toss dice

Expected output: Asks user if they want to pay 50 to get out of jail

Actual output:



Input: Click yes

Expected output: User moved away from in jail panel, user balance reduced by 50, and user receives prompt for the action they landed on

Actual output:



Test Result: Failed

User landed on a house panel, and should be prompted to buy house but the prompt was not received

Case 9:

Scenario: Reached "Chance" panel

Expected Output: User prompted a chance scenario

Actual Output:

User Name: john

Your Balance: 2375 M

Players:

john

[Send New Request](#)

Estates you own:

St.JamesPlace
B&ORailroad

Chance

Make general repairs on all your property Â For each house pay \$25 Â For each hotel \$100
(Consulting a "How to Fix It" brochure, a hammer-wielding Mr. M sits astride a house not much larger than he is; it buckles under his weight)

OK

Toss dice

Buy a House/Hotel

Sell a House/Hotel

mortgage

unmortgage

Exit

Input: Click Ok

Expected Output: User receives the benefit or consequence of the “chance”

Actual output:

Online Monopoly!

User Name: john

Your Balance: 2375 M

Players:

Send New Request

Estates you own:

St.JamesPlace
B&ORailroad

Buy a House/Hotel

Sell a House/Hotel

mortgage

unmortgage

Toss dice

| |
|-----|
| • • |
| • • |
| • • |

| |
|-----|
| • • |
| • • |
| • • |

Test result: Failed

User balance should be reduced however it was not.

Case 10:

Input: User lands on a property they already own

Expected Output: No prompt was shown to the user

Actual Output:



Test Result: Successful

Case 11:



Input: select toss dice

Scenario: user pass “go” panel

Expected Output: user balance increased by 100

Actual output:



Test Result: Successful

Case 12:

User Name: john
Your Balance: 2035 M
Players:
john

Send New Request

Estates you own:
VirginiaAvenue
PennsylvaniaRailroad
VermontAvenue

Buy a House/Hotel
Sell a House/Hotel
mortgage
unmortgage
Exit

Toss dice

The Monopoly board shows the following properties and Chance cards:

- Properties: Park Place (Red), Boardwalk (Blue), Short Line (Blue), Pennsylvania Avenue (Blue), North Carolina Avenue (Green), Baltic Avenue (Red), Mediterranean Avenue (Red), Income Tax (Black), Reading Railroad (Black), Oriental Avenue (Light Blue), Vermont Avenue (Light Blue), Connecticut Avenue (Light Blue), and Chance (Pink).
- Chance Cards: Lamp, American Garage, Short Line, Pennsylvania Avenue, Income Tax, Baltic Avenue, Mediterranean Avenue, Community Chest, and Go To Jail.

Input: Click Toss dice

Scenario: User lands on Income Tax panel

Expected Output: User balance reduced by 100

Actual output:

User Name: john
Your Balance: 2035 M

Players:
john

Send New Request

Estates you own:
VirginiaAvenue
PennsylvaniaRailroad
VermontAvenue

Buy a House/Hotel
Sell a House/Hotel
mortgage
unmortgage
Exit

Toss dice

The Monopoly board shows the following properties and Chance cards:

- Properties: Park Place (Red), Boardwalk (Blue), Short Line (Blue), Pennsylvania Avenue (Blue), North Carolina Avenue (Green), Baltic Avenue (Red), Mediterranean Avenue (Red), Income Tax (Black), Reading Railroad (Black), Oriental Avenue (Light Blue), Vermont Avenue (Light Blue), Connecticut Avenue (Light Blue), and Chance (Pink).
- Chance Cards: Lamp, American Garage, Short Line, Pennsylvania Avenue, Income Tax, Baltic Avenue, Mediterranean Avenue, Community Chest, and Go To Jail.

Test Outcome: Failed
User balance was not changed