**Project : BlackJack Game**

**Date :**

**Tester : P Leanca**

**Testing Type : Black Box Testing**

1. **Objective**

To verify the functionality of the Python code for BlackJack game without inspecting or alter the code. The focus is on input – output behaviour, game rules and user interaction.

1. **Test Environment**

Operating System : Windows

Python Version : 3.12.2

IDE : Visual Studio Code

1. **Test Scenarios**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test case ID** | **Scenarios description** | **Input / Action** | **Expected** **output** | **Status** |
| TC\_01 | Game start-up | Run the program | Game starts by loading boot image, background image then places two cards for dealer and player | Pass |
| TC\_02 | Player decides if wants to hit or stand | Player choose “Hit” | Player receives one card | Pass |
| TC\_03 | Player decides if wants to hit or stand | Player choose “Stand” | No card issued for the player.  Dealer plays | Pass |
| TC\_04 | Player wins | Player reaches 21 without busting | Winning message is displayed | Pass |
| TC\_05 | Dealer wins | Dealer reaches 21 or player busts | Winning message is displayed | Pass |
| TC\_06 | Tie Condition | Both player a dealer have equal value | Tie message displayed | Pass |
| TC\_07 | Player loses | If player busts or dealer wins | Player loses | Pass |
| TC\_08 | Dealer loses | If dealer bust or player wins | Dealer loses | Pass |
| TC\_09 | Betting system | Place bets for each hand played | Bet placed | Pass |
| TC\_10 | Bust condition | Player or dealer goes over 21 | Player or dealer busts | Pass |
| TC\_11 | Blackjack condition | If player or dealer get to 21 | Player or dealer wins if get to 21 | Pass |
| TC\_12 | Dealer draw logic | Dealer gets 2 cards to start. One hidden | Two cards  One hidden | Pass |
| TC\_13 | Credit handling | Credit sored and adjusted according to game output | Credit is adjusted | Pass |
| TC\_14 | Play again/exit | Play again and exit button | Buttons for play again and exit working | Pass |
|  |  |  |  |  |

1. **Defect Tracking**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Defect ID | Test case | Description of issue | Severity | Status |
| D\_01 | Bet handling | Bet can be adjusted during game | High | Fail  Not rectified |
| D\_02 | Multiple cards | When more than 4 cards drawn they overlap the betting info | Low | Fail  Not rectified |
|  |  |  |  |  |

1. **Conclusion**

All major functionalities of the BlackJack Game were successfully tested.

The game starts and runs as intended.

The rules for the BlackJack game are followed.

An issue with handling the bet was found but not rectified.

1. **Recommendations**

Fix highlighted issues.

Improve UI for better game experience.