

Performance*

Game Initialization -

Execution of the game until the starting game screen is displayed will be completed in less than 5 seconds.

The initialization of all game components ready for a blackjack round will be completed in less than 5 seconds.

Game Play -

System prompt for bet amount should be completed within 1 second.

Once bet has been entered, system should deal the cards to the player and dealer within 2 seconds.

Adding a card to hand will be completed within 1 second.

Adding a card to hand and doubling bet will be completed within 1.5 seconds.

Game system reveals dealer's hand within 1 second when player's hand is finalized.

Current round winner will be displayed within 1 second after revealing dealer's hand.

Splitting hand into two separate hands should be completed within 2 seconds.

System prompt displayed to the user for insurance decision within 1 second.

Information Handling -

The system has capacity to support records of up to 10,000 users and their corresponding information.

Every retrieval of game statistics for updates will be completed within 2 seconds.

System prompt for change user will be displayed within 1 second.

Validation and retrieval of user information will be completed within 3 seconds.

Reconfiguration of game after switching users (restarting game) will be completed in less than 5 seconds as above.

Any user credit updates will be done within 2 seconds.

* This section assumes running the game on a workstation with a Windows/Linux/Mac operating system using an Intel(R) Core(TM) 2 Duo CPU E8135 @ 2.40GHz or stronger processor running at under 10% CPU usage, at least 2GB of DDR2 RAM free for use, and at least 1GB of available disk space.

Usability

95 out of 100 average users should be able to come up with and enter a username for registration within 30 seconds.

Only one instance of the entire game system will be supported – and hence only one user may be playing against the dealer at any given time.

At any given time, the game will only support 1 user game play request at a time.

Users must wait until a request is completed before issuing another request to the game.

Users who have had experience with playing the traditional Blackjack card game should require less than 5 minutes to understand the game interface.

In the case that a user does not understand how to play the game, there will be no training provided, however a Help section will be available from the menu bar to ease the understanding of the game.

Security

All user information will be encrypted within the database.

Username, passwords, credit amounts, and respective game statistics for each user will be stored confidentially and will not be shared with other players.