**Elaboration Deliverable #1:** Black Queen Card Game

**Cast**

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| **Human Character** | **Program Character Name** | **Role** | **Brief** |
| Catherine | Manager | Coordinator | Coordinates the play between players and other chief operators like controller. |
| Jack | Player1 | Highest bidder | Player who bids maximum points |
| Greg | Player2 | Player2 |  |
| Mary | Player3 | Player3 | Undisclosed partner |
| Sally | Player4 | Player4 | Undisclosed partner |
| Jay | Player5 | Player5 |  |
| Cherry | Player6 | Player6 |  |
| Steve | Commander | Controller |  |
| Wendy | Abacus | Calculator | Math Calculations. |
| Ashley | Clerk | Database Administrator | Stores and maintains data. |

**Human play script**

Player3: Admin, I want to host a game of Black Queen for 6 players.

Manager: Controller, please start a game of 6 players.

Commander: Manager, game table is ready. Please, ask the host to start bidding round.

Manager: Player3, please start the bidding process.

Player3: Manager, I want to pass my bid.

Player2: Manager, I want to bid 75 points.

Player1(Highest bidder): Manager, I want to bid 150 points.

Player4: Manager, I want to bid 90 points.

Player5: Manager, I want to pass my bid.

Player6: Manager, I want to bid 75 points.

Manager: Commander, please save the bidding points for each player.

(Player3:0, Player2:75, Player1:150, Player4:90, Player5:0, Player6:75)

Commander: Manager, the scoreboard is ready. Please start the game.

Manager: Player1, as you are the highest bidder, it is your turn. Please announce the trump and two

cards for declaring partners.

Player1: Manager, the trump is ‘Spade’ and players with ‘Ace of spade’ and ‘King of heart’ are my

partners.

Manager: Commander, please record the trump as ‘spade’ and partner’s card as ‘Ace of spade’ and ‘King

of heart’.

Commander: Manager, please ask Player1 to play the card.

Manager: Player1, please play the card.

Player1: Manager, I have played ‘5 of spade’.

Manager: Player2, your turn please play the card.

Player2: Manager, I have played ‘King of spade’.

Manager: Player3, your turn please play the card.

Player3 (Undisclosed partner): Manager, I have played ‘Ace of spade’.

Manager: Player4, your turn please play the card.

Player4(Undisclosed partner): Manager, I have played ‘Queen of spade’.

Manager: Player5, your turn please play the card.

Player5: Manager, I have played ‘3 of spade’.

Manager: Player6, your turn please play the card.

Player6: Manager, I have played ‘King of spade’.

Manager: Player1 you win this round and this hand is yours.

Manager: Commander, one round is finished. Please calculate and store the number of points for

each player.

Commander: Calculator, please calculate the number of points for each player and return.

Abacus: The number of points for each player are these

[Player1:55,Player2:0,Player3:0,Player4:0,Player5:0,Player6:0]

Commander: Clerk, please store the number of points for each player for the last pass

and display them on scoreboard.

[Player1:55,Player2:0,Player3:0,Player4:0,Player5:0,Player6:0]

Clerk: Commander, the points are stored and displayed on scoreboard for the last pass.

Commander: Manager, please continue with the next round.

Manager: Player1, your turn please play the card.

Player1: Manager, I have played ‘5 of hearts’.

Manager: Player2, your turn please play the card.

Player2: Manager, I have played ‘Ace of hearts’.

\*\*\*\*\*\*\*\*\*\*This story continues for another 4 rounds\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Manager: Commander, all rounds are finished. Please calculate the points for each player, store them, and display them on scoreboard.

Commander: Abacus, please calculate the total number of points for each player and return.

Abacus: The total number of points for each player are these

[Player1:150,Player2:-75,Player3:150,Player4:150,Player5:0,Player6:0,Player7:-75]

Commander: Clerk, please store the number of points for each player after the final round and display

them on scoreboard.

[Player1:150,Player2:-75,Player3:150,Player4:150,Player5:0,Player6:0,Player7:-75]

Clerk: Commander, the total points are stored and displayed on scoreboard for this

game.

Commander: Manager, Player1 is the winner of this game with 150 points.

Manager: Player1, you win this game with 150 points. Congratulations!!!