



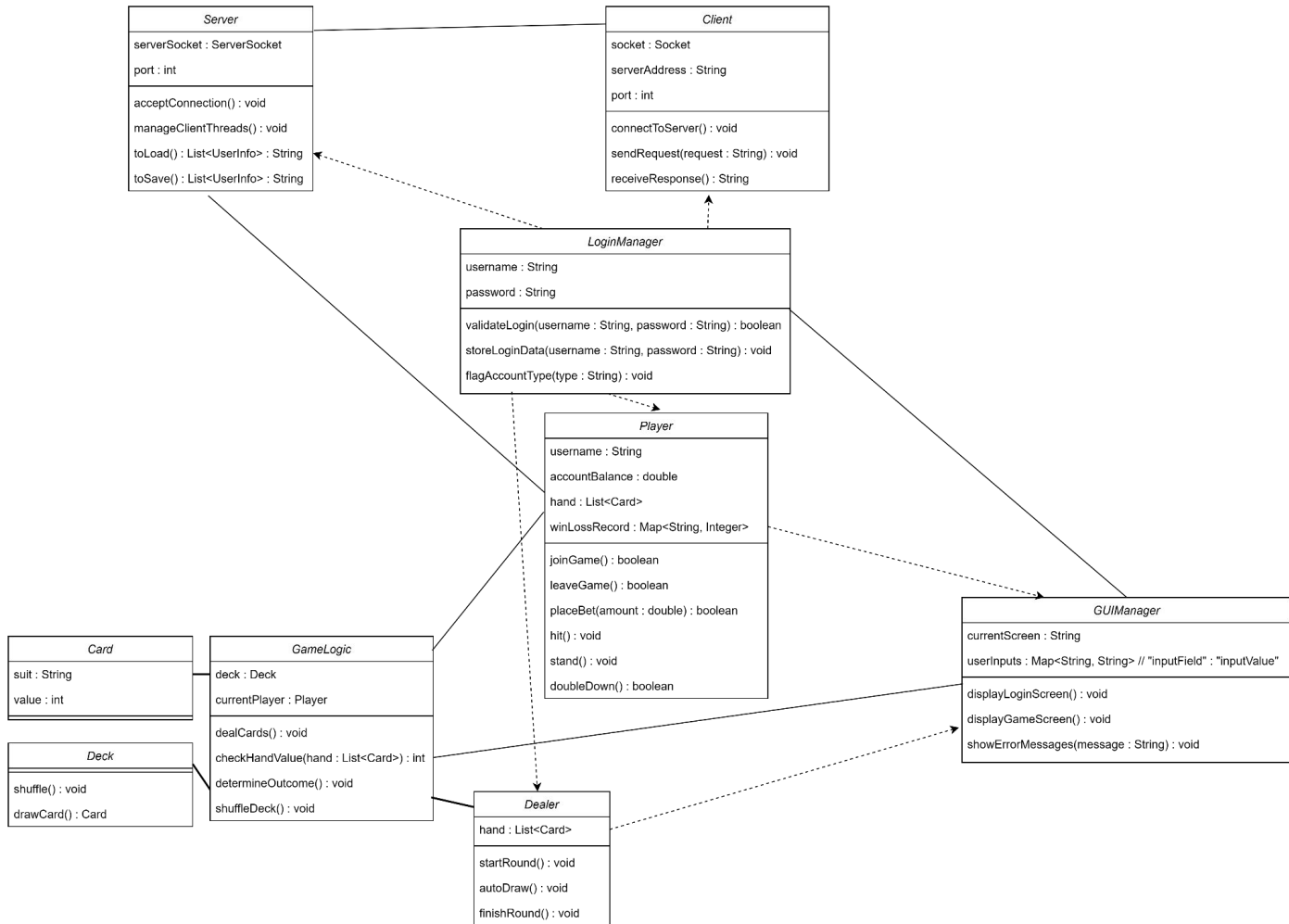
Group 2: BlackJack

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Top 5 Class Candidates

- **Server/Client**
 - Server and Client will have a connection to communicate.
- **LoginManager**
 - This class will initiate user login (w/ password) as well as flag users as Player or Dealer.
- **Player**
 - The Player class will handle all of the actions a player can take.
 - The Player class will also be responsible to send updated data to Server's "database" (file).
- **Dealer**
 - The Dealer Class will control the flow of the round.
- **GameLogic (Card/Deck "subclasses")**
 - Include methods to enforce the rules of the game.
 - Will also be in control of shuffling and dealing cards (not the dealer), requesting actions from players and dealers once certain conditions are met, determine the outcome of rounds, in addition to other maintenance.





Server Requirements

- The server will designate a port for the Client to connect
- A single server will fork threads for single or multiple Clients to connect
 - This feature uses an inbuilt interface which allows multithreaded operation



Client Requirements

- Client will connect to the Server in a designated port
- One or many Clients can connect to the Server
 - Multithreading option helps accomplish this feature



Login Requirements

- Username and password will be validated with contents of the text file containing user data.
- The system will flag the user as a dealer or a player.




Player Requirements

- Since we want to maximize fair play, the player will only be able to bet at the start of the round.
- The player will have the options to hit, stand, or double down during the round.
- The player will be able to deposit funds to their bankroll.
- The player will not be able to bet more than what they have in their bankroll.



Dealer Requirements

- The Dealer will control the flow of the round
- The Dealer will start and end the round



****we presented Sequence Diagram that we
couldn't paste over to the slides****