

## **Project 4: Team # 40**

**Simrah Shaik**

**Huy Truong**

**Maryam Ahmed**

**Mallika Patil**

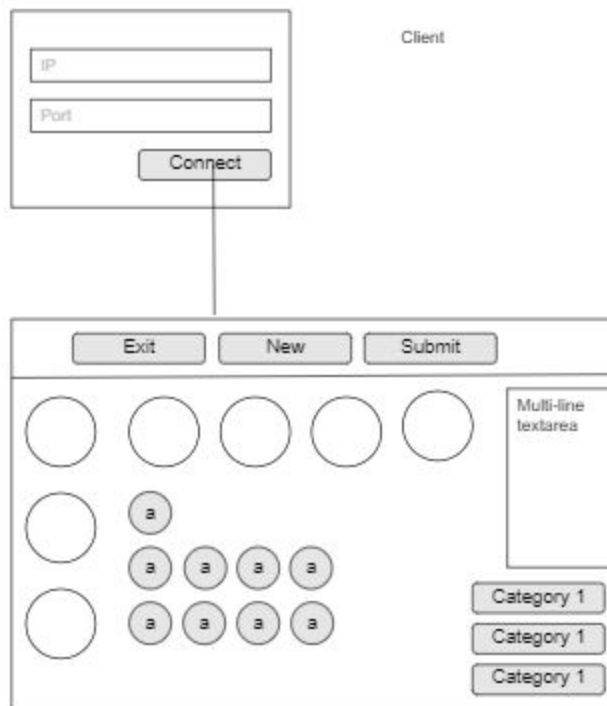
The game is designed so that it closely follows the implementation of Hangman where the player (client) is allowed to make letter guesses and the administrator (in this case the server) lets the player know if that letter is present in the word and where it is present. We decided to implement a letter bank in GUI so that it would make the game more appealing and easier to navigate. You can also pick between Diseases, Mythical Creatures, and Programming Languages. There is also a section that states the number of attempts the player has left so that they can understand the flow of the game better. In the event of communication between the server and the client, there is a text area in the GUI for handling messages from the server.

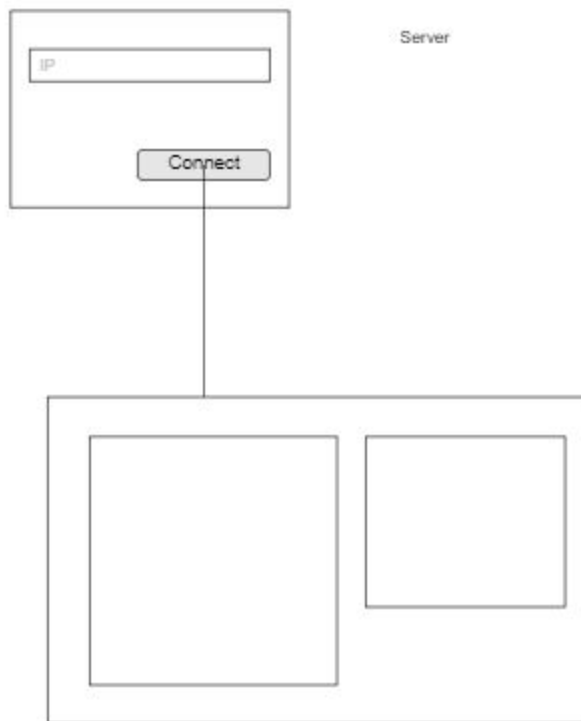
The team chose to collaborate on GitHub as it would be easier to maintain versions of the project and update each other on time. If two members of the team were working on components of the project that were closely related, then they would collaborate separately so that any errors or issues that arise during the development would be handled quickly and accordingly without having to disrupt the work of the team members not associated with that part. We utilized Scene Builder in the making of the GUI to allow for flexibility in the separation of design and logic.

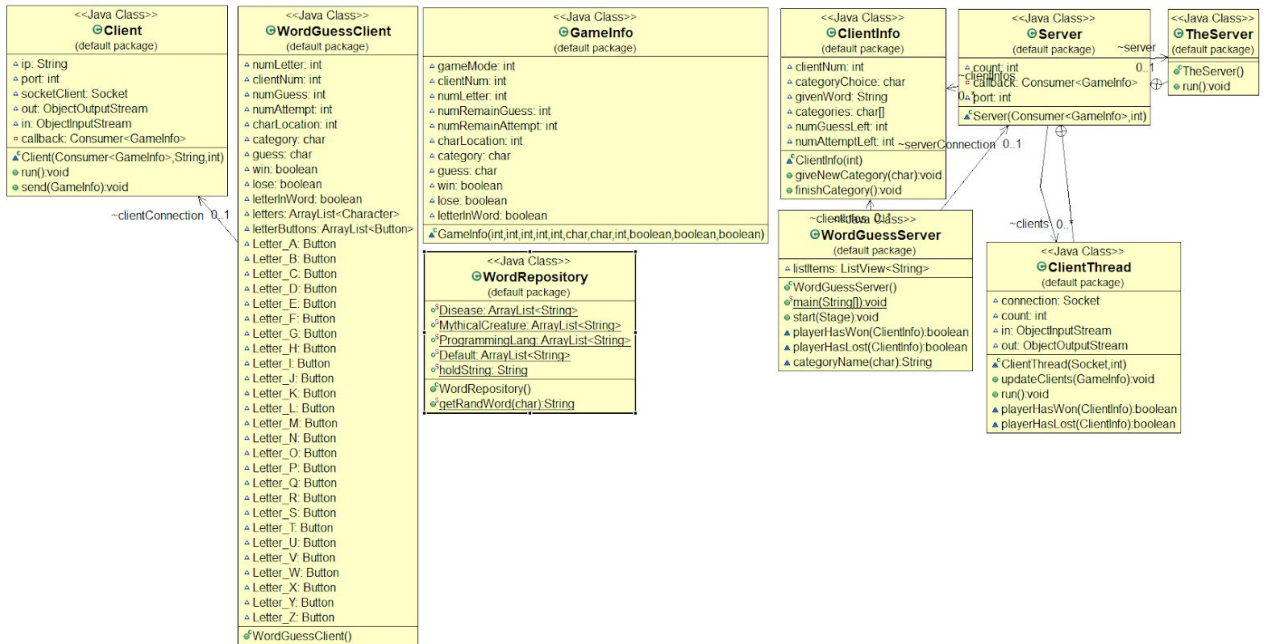
For the individual contributions of each team member, Mallika worked mainly on the graphical user interface and making sure to follow design principles that we utilized in class so that the client can understand and easily follow the progress of the game. Maryam worked on incremental testing of the program and ensuring proper control flow. Huy worked on connectivity between the client and the server and . Simrah worked on designing the logic of the game and how interactions would be handled between the client and the server.

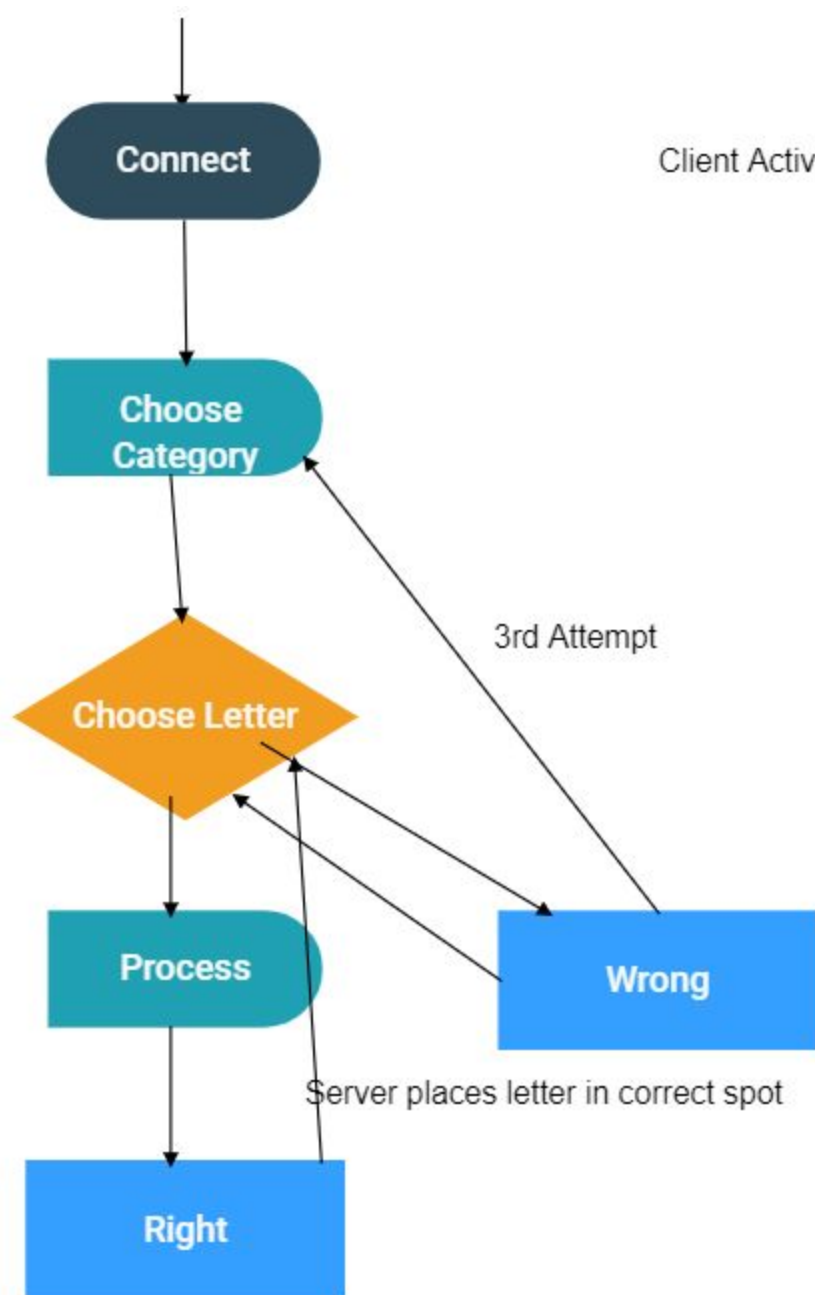
Some of the issues that the team ran into during development began with the initial design of the program itself. It was difficult to figure out some of the logistics concerning the

flow of the game, and it took a significant amount of time to get that working. Another issue was overlapping between team members. Sometimes we would have to wait for one member to finish a certain component before we could make additions/changes to the program.









Client Activity Diagram