**EECE 350 PROJECT:**

**YALLACHAT**

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**Task distribution**

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| Feature | Description | Who mainly implemented it |
| Client Connection Setup | Establishing connection to the server. | Amir |
| Data Transmission | Sending and receiving data between client and server. | Amir |
| Concurrency Handling | Server can handle multiple clients simultaneously. | Mahmoud |
| Data Integrity Checks | Ensuring data sent is the data received (no corruption). | Mahmoud |
| User Authentication | The server performs authentication by verifying the username and password | Omar |
| Error Handling | Managing connection losses, timeouts, etc. | All of us each one for his part |
| Logging | Keeping records of server or client activity. | Omar |
| Graphical User Interface (GUI) | Graphical interface for client interactions. | Bassam |
| Database Integration | Backend database for storing data. | Amir |
| Session Management | Handling user sessions securely and efficiently. | Amir |
| List Of Chats | Showing a list of chats the client made with friends | Mahmoud |
| Add Friends/View Friends Status | The user can add friends and view whether they are online or offline | Omar |
| Start Chat | The user can initiate communication with a selected friend and exchange text messages through the server. | Mahmoud |
| Offline Receiver | If a user sends messages to an offline friend, the server keeps these messages in its repository and delivers them immediately once the friend goes online | Bassam |

**PART 2:**

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| --- | --- | --- |
| Feature | Description | Who implemented it |
| Groups | Users can create group of friends and communicate with them | Amir |
| Sending Files | Did not fully work but provided the code that includes them. | Mahmoud |
| Peer-to-Peer Architecture | Did not fully work but provided the code that includes them. | Omar |
| Chat History | Display all the chats between two users | Mahmoud |
| Searching In Chats | Searching efficiently for a specific word | Omar |
| Notifications | If received a message while offline, a notification pops up once the user logs into his account | Bassam |