# The Project Report

Team Members:
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Ali Mohammed Ali Elkhalifa
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Coding:
I was responsible for the code mainly so I did the fundamentals of the code for the app and I would send the code to my friend to check the algorithm of the structure then to my other friend to do the GUI and finally our friend to test it and give us feedback


PRODUCT: I think finding the general idea of the app was easy but doing it and building it and making it a thing was a bit challenging. If I do it again, I would give the idea of the app and the goal more time to make it easier for us to make it.

TEAM: WE worked well with each other. And I enjoyed it because all the members are my friends. The coding was slightly hard because we are not used to doing such huge project. We divided the work based on our skills some of us good at coding others good in the Network part so based on that.

INDIVIDUAL: I think I'm pretty good with coding and working with my team. I did the coding part so the bases of the code and send them to my friends so they can fix errors and give me feedback. I really enjoyed the project, and I would love to work on similar projects in the future

Yaser Rahmah
220212362
ALGORITHM DESIGN:

Designing algorithms for our project was both challenging and rewarding. The most enjoyable aspect was brainstorming creative solutions, while ensuring efficiency proved to be the toughest part.

PRODUCT:

My experience with algorithm design was a mix of enjoyment and challenge. While conceptualizing was easy, optimizing for efficiency was tough. If I could revisit the project, I'd focus on enhancing algorithm performance.

TEAM:

I'm grateful for the collaborative spirit within our team. We effectively divided tasks based on strengths, resulting in a successful outcome that I'm proud of.

INDIVIDUAL:

In my role, I contributed significantly to our project's success. Despite challenges, I'm satisfied with my contribution and the functionality of the algorithms I designed.

Mutaz wael abdulgani

220212311

I worked on the GUI part of our chat application. This involved creating the user interface where users can enter their usernames, type messages, and view the chat history. I learned a lot about teamwork during this project. Initially, it took some time to get used to working with my teammates, but eventually, we developed a good rhythm.

PRODUCT: Creating the GUI had its challenges. The easiest part was arranging the basic layout with tkinter, as it is straightforward to use. The difficult part was ensuring that the interface was both functional and visually appealing. I didn't expect to spend so much time tweaking the design elements. If I were to do it again, I would focus more on the user experience to make the program more intuitive and attractive.

TEAM: I feel very satisfied with my group. We worked well together, and effectively divided tasks based on our strengths. This collaboration made the coding process smoother and more efficient. Each member contributed their part, which helped us achieve our goals.

INDIVIDUAL: Personally, I think I did a good job. I was responsible for developing the GUI, ensuring that the components like buttons and text boxes worked correctly, and that the layout was user-friendly. I feel proud of my contributions and the overall look of the interface.

A top frame for the username input and connect button.

A middle frame for displaying messages.

A bottom frame for typing and sending messages.

By working on this project, I enhanced my skills in GUI development and learned the importance of good design in user interfaces.

MOHAMMED AHMED

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TESTING:

I did the testing part so my friends will send me the code then I will run them and fix the errors for them. So, I learned a lot when it comes to the teamwork, it takes time at first to get along with my other mates, but I got used to it

PRODUCT: It was not very difficult and not very easy. The easiest thing was to read the code, it was clear, and the most difficult thing was to design the user interface. What I did not expect to work was designing the interface. If I had the opportunity to work on this project again, I would make the program more attractive.

TEAM: I feel satisfied with the group I am with, and I think we did a very good job. As for the code, it was not very difficult and we divided ourselves according to our capabilities, and this is a wonderful thing.

INDIVIDUAL: I think I did a good job, and I am satisfied with it. I was the one responsible for testing the program and the codes to see whether they worked or not.