

# ECE 6122 Final Project Report (Statement of Work)

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## **Introduction**

Buzz Net emerges as a convenient and innovative application designed specifically for the vibrant student community at Georgia Tech. This application is conceptualized to serve as a dynamic platform where students can effortlessly share their academic and personal lives, fostering a sense of community and connection. Whether it's discussing complex academic concepts, coordinating study groups, or sharing fun and memorable moments from campus life, Buzz Net stands as a versatile tool that encapsulates the spirit of Georgia Tech.

## **Project Description**


Buzz Net is an campus communication app that allows users to:

- Log into their personal accounts.
- Send and receive messages and images.
- Post photos and text in a public home space.
- Conduct video chats, tailored for Mac computers with a Linux system.
- The user interface of Buzz Net is designed to be intuitive, facilitating easy navigation and a seamless user experience.
- **The technique we use is Sockets**

## **Video Instructions**

To assist users, Buzz Net comes with a set of video instructions that guide them through the setup, features, and functionalities of the app. These tutorials are designed to be user-friendly, catering to both tech-savvy individuals and those new to such applications.

1. Log in with [user@gatech.edu](mailto:user@gatech.edu), [Lucky@gatech.edu](mailto:Lucky@gatech.edu), or [Winnie@gatech.edu](mailto:Winnie@gatech.edu)  
Password is anything longer than 6 digits



# Login

user@gatech.edu

\*\*\*\*\*


Login

## 2. Post Image and text on the public homepage

# BuzzNet

Home Discussion Board Friends Privacy Policy Advertising Push Mechanism Logout

## Home



**User**  
Major: League of Legends  
Year: Phd

123123 Choose File Q3.png Post

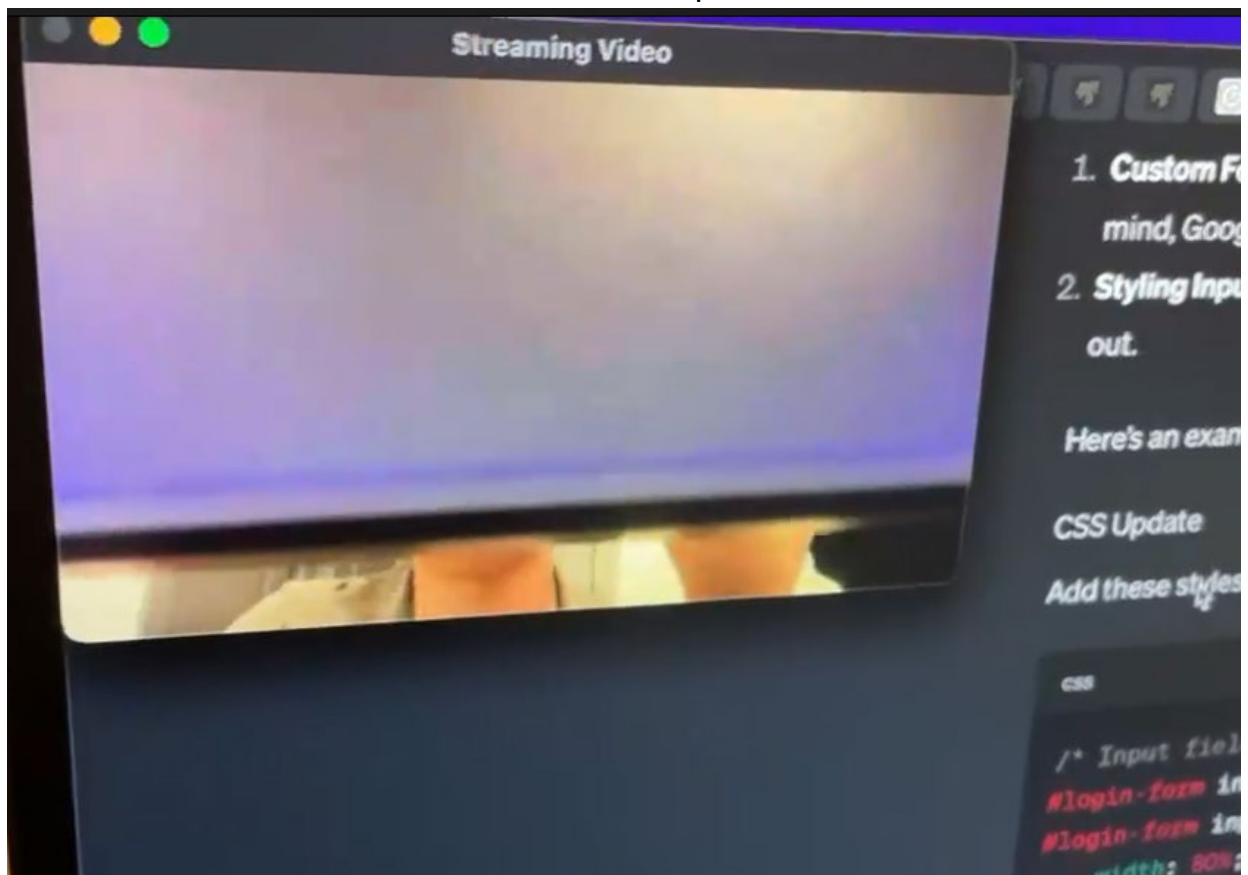
123123

$$ETX(x, y) = \frac{\# \text{ of total transmissions from } x \text{ to } y}{\# \text{ of successful transmissions from } x \text{ to } y} \quad (3)$$

3. Real time Chat between users, sending pictures and texts to each other, able to restore chatting history



4. Able to do Video Chat Between two mac computers



## Objectives and Deliverables

The primary objectives of Buzz Net, along with their corresponding deliverables, are as follows:

Objective: Develop a user-friendly and engaging interface.

Deliverable: A functional and visually appealing user interface for Buzz Net.

Objective: Implement robust privacy and security protocols.

Deliverable: A comprehensive set of privacy policies and security features integrated into the app.

Objective: Provide a high-quality video chatting experience.

Deliverable: A reliable and efficient video chat function, compatible with two Mac computers using Linux OS.

### Grading

Element	Percentage Deduction	Details
Project Functions as expected.	Up to 50%	The project produces the results stated in the preliminary project statement of work.
Custom Class(es) were used.	Up to 50%	You create custom class(es) as part of your project.
One of the special topics was used. a. Multi-threading std::thread or OpenMP b. OpenGL c. Sockets d. MPI e. GPU (CUDA)	Up to 50%	You must use at least one of the 5 topics covered this semester
Clear Self-Documenting Coding Styles	10%-25%	This can include incorrect indentation, using unclear variable names, unclear/missing comments, or compiling with warnings. (See Appendix A)

1. Our project function well
2. Used Database, HTML, CSS, Sockets
3. Topic: Socket
4. Coding style very good, with lots of comments

## **Privacy Policies**

Buzz Net is committed to user privacy and data security. The app includes end-to-end encryption for all communications, ensuring that messages and calls are secured. Our privacy policy is transparent, informing users about data collection and usage. Users have complete control over their personal data and can choose their privacy settings.

## **Conclusion**

Buzz Net is poised to make a significant impact in Georgia Tech Campus. By focusing on user experience, security, and innovative features, Buzz Net is not just a communication tool but a comprehensive platform for personal and professional interaction.