

ZestChat White Paper

Zero-knowledge Encrypted Serverless Transferrable Chat

Abstract

ZestChat is a pseudonymous, browser-native, peer-to-peer chat messenger and file transfer protocol, offering unlimited data transfer without the need for centralized servers. Unlike mainstream messaging platforms, ZestChat prioritizes privacy, security, and freedom by running directly in the browser—installation-free, censorship-resistant, and accessible to everyone.

About the Project

- Browser-native experience: Runs directly in browsers, eliminating downloads or logins.
- Unlimited communication: Encrypted text, file transfer with no data caps.
- Unlimited File Transfer: *Single file transfer size limit of 200 KB applies for each transfer due to minimal infrastructure running the browser-native web application although number of file transfers is unlimited and completely depends on the user's hardware capabilities.*
- Privacy-first: AES-GCM-grade encryption ensures secure, pseudonymous communication.
- Serverless architecture: Free from centralized control, surveillance, or censorship.

This project was conceived by Saptorshi Chakraborty, a seventeen-year-old developer from Kolkata, India. ZestChat invites developers, cybersecurity experts, and contributors to expand and harden the platform.

Why ZestChat Matters

Mainstream communication platforms are plagued by:

- Centralized servers collecting and monetizing data.
- Surveillance and censorship.
- File transfer restrictions.

ZestChat offers a solution for journalists, activists, researchers, creators, and everyday people who value:

- Privacy and anonymity
- Secure, censorship-resistant messaging
- Unlimited file transfers

For many, a safe, pseudonymous, and serverless messenger is essential.

Mission & Vision

ZestChat will evolve into a community-driven, privacy-first communication platform.

Objectives:

- Finalize browser-native app with encrypted messaging and file transfer.
- Test with early contributors and security experts.
- Expand with group messaging, permissions, and scalable file sharing.
- Commission independent audits of zero-knowledge architecture.
- Build a global contributor community.

Funding Goals

Funds will help to:

- Improve the protocol and build group chat/video features.
- Support security audits.
- Maintain bootstrap infrastructure for connectivity.

By supporting ZestChat, you are shaping a future of private, censorship-resistant, limitless communication.

About the Creator

Saptorshi Chakraborty, a 17-year-old developer from Kolkata, India, built ZestChat as a passion project to advance digital privacy and unlimited data transfer. He believes its strength lies in the community of contributors.

Get Involved

ZestChat is a movement toward privacy, freedom, and limitless communication.

Website: www.zestchat.online

E-mail: team.zestchat@gmail.com

Patreon: <https://www.patreon.com/preview/campaign?u=186024233>

YouTube: <https://www.youtube.com/@ZestChat>

By supporting this project, you are helping build a future where secure, unlimited, serverless communication is accessible to all.