

# Privacy Policy

Yapper Project  
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## 1 Introduction

Welcome to **Yapper** (the “Project”). This Privacy Policy explains how we collect, use, and protect your information when you use the Yapper chat application, its associated API, or interact with the project repository at <https://github.com/Zain-Khoso/Yapper>.

**Important Note:** This is a non-commercial portfolio project intended for demonstration and recruitment purposes. It is not intended for mission-critical or highly sensitive communications.

## 2 Information We Collect

To provide the functionality of the Project, we collect and process the following data:

### 2.1 Account Information

- **Registration Data:** When you create an account, we collect a username, email address, and a password. Passwords are salted and hashed before storage in our MySQL database.
- **Authentication Tokens:** We use session tokens (JWT or similar) to maintain your login state.

### 2.2 Communication Data

- **Messages:** We store chat messages to enable asynchronous communication. **Encryption Notice:** Messages are encrypted using the **X3DH (Extended Triple Diffie-Hellman)** algorithm. The server stores the encrypted ciphertext; however, we do not guarantee protection against sophisticated attacks on this demonstration environment.
- **Voice and Video Calls:** The Project supports real-time voice and video calling. These streams are generally established via WebRTC (Peer-to-Peer). The Project server handles signaling data (SDP offers/answers and ICE candidates) to establish the connection, but the audio/video media is not stored on our servers.

### 2.3 Technical Data

- **Logs:** Server logs may capture IP addresses, API request times, and user agent strings for debugging and stability monitoring.

### 3 How We Use Your Information

We use the collected data solely for the following purposes:

- To demonstrate the technical capabilities of the Node.js, Express.js, and MySQL stack.
- To facilitate real-time messaging and call routing between users.
- To showcase the implementation of the X3DH encryption algorithm.
- To allow third-party developers to test the Headless Backend API.

### 4 Data Security

We employ industry-standard security measures appropriate for a portfolio project:

- **Transport Security:** Data in transit is protected via standard web protocols.
- **Message Encryption:** The X3DH implementation ensures that key agreement occurs securely between clients.
- **Database Security:** We utilize parameterized queries to prevent SQL injection attacks.

### 5 Data Retention

As this is a showcase environment, the database may be purged or reset at any time without prior notice. We make no guarantees regarding the long-term preservation of your account or chat history.

### 6 Third-Party Services

The Project may utilize third-party hosting providers (e.g., cloud platforms) and signaling servers (STUN/TURN) to facilitate connectivity. These providers process data according to their own privacy policies.

### 7 Contact Information

For inquiries regarding this project or its code, please refer to the GitHub repository:

<https://github.com/Zain-Khoso/Yapper>