

# TechSprint



Leveraging the power of AI



## Team Details

- a. Team name: Tech Doomers
- b. Problem Statement: Instant, secure, temporary file sharing

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## Brief about your solution and problem statement addressing

### Problem statement

Sharing files quickly and securely is still a challenge in everyday scenarios such as classrooms, meetings, workshops, and cross-device transfers. Existing solutions like messaging apps, email, or cloud storage platforms often require user accounts, impose file size limits, permanently store files, or involve multiple steps such as permission management and link sharing.

### Solution

**QShareX** is a web-based file sharing platform that enables users to upload multiple files, automatically compress them into a ZIP file, and generate a QR code for instant sharing.

Anyone, anywhere can scan the QR code and download the ZIP file within a **10-minute validity window**, after which the files are automatically deleted from the server to ensure privacy and storage efficiency. The solution eliminates the need for user accounts, messaging apps, cables, or cloud permissions, making it ideal for quick and secure file transfers.

## Opportunities

### **How different is it from any of the other existing ideas?**

While most existing solutions focus on storing and managing files, QShareX focuses on instantly sharing files with anyone, anywhere, for a limited time — without accounts, platform restrictions, or permanent storage.

### **How will it be able to solve the problem?**

QShareX solves the problem by turning file sharing into a fast, temporary, and platform-independent action — scan a QR, download the file, and automatically remove access after use.

## List of features offered by the solution

- **Multi-File Upload Support**

Users can upload multiple files in a single session through an intuitive drag-and-drop or file picker interface.

- **Automatic ZIP Compression**

All uploaded files are automatically compressed into a single ZIP file for easy and efficient downloading.

- **QR Code Generation for Sharing**

The system generates a unique QR code that can be scanned to access the downloadable ZIP file instantly.

- **Time-Bound File Access (10-Minute Expiry)**

The generated QR code and download link remain active for only 10 minutes, after which files are automatically deleted.

- **Global Accessibility**

Anyone, anywhere can download the shared files using the QR code, provided they have internet access.

- **No Login or Account Required**

Users can share and download files without creating accounts or providing personal information.

- **Platform-Independent Usage**

Works across all devices and operating systems (mobile, desktop, tablet) through a standard web browser.

- **Privacy-Focused Automatic Cleanup**

Uploaded files and generated ZIP files are automatically removed from the server after expiry to ensure privacy.

- **Light and Dark Mode Support**

Provides theme toggle for better accessibility and user comfort.

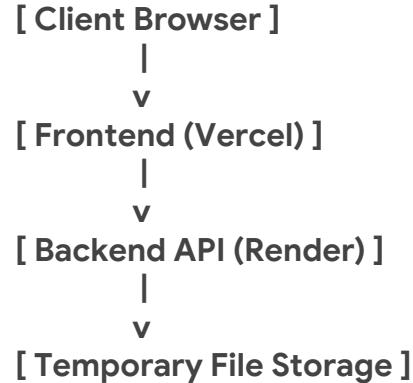
## Google Technologies used in the solution

- Google Chrome – Used for testing, debugging, and cross-device browser compatibility.
- Google Lens – Used to scan and decode the generated QR codes directly from the browser.
- Google Drive – Used for hosting the demo video and project assets.
- YouTube – Used to host the 3-minute solution walkthrough video (unlisted).

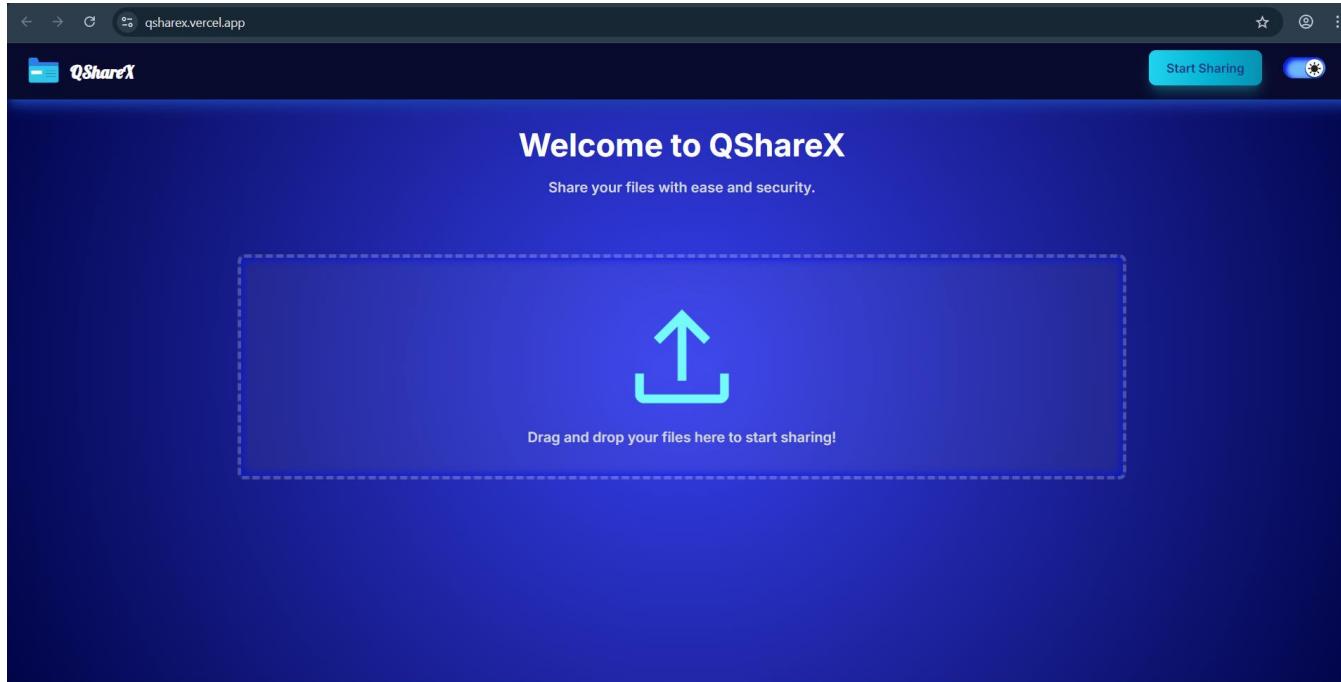
## Process flow diagram or Use-case diagram

```
User opens website
↓
Uploads multiple files
↓
Server stores files temporarily
↓
Files are zipped
↓
QR code is generated
↓
QR shared with others
↓
Anyone scans QR
↓
ZIP file downloaded
↓
10-minute timer expires
↓
Files auto-deleted from server
```

## Architecture diagram of the proposed solution



## Snapshots of the MVP



## Additional Details/Future Development (if any)

The solution uses time-limited QR-based file sharing where all uploaded files are automatically deleted after 10 minutes, ensuring privacy and minimal storage usage. The browser-based design enables seamless cross-platform access without login or installation.

Future enhancements include password-protected QR links, configurable expiry durations, cloud storage integration for scalability, and packaging the web app as a lightweight mobile application.

## Provide links to your:

### GitHub Public Repository

<https://github.com/Aditya-Jaiswar-8796/qsharex>

### Demo Video Link

[https://drive.google.com/file/d/1ebccHN4iRppAkDWca\\_11Tlzxocmzsa07/view?usp=drivesdk](https://drive.google.com/file/d/1ebccHN4iRppAkDWca_11Tlzxocmzsa07/view?usp=drivesdk)

### MVP Link

<https://qsharex.vercel.app/>