

# **Loom-like Screen Recording App – Development Roadmap**

Goal: Build a web-based app to record screen with audio, preview recordings, upload videos, and share via links.

## **Tech Stack**

Frontend: React (Vite), MediaRecorder API

Backend: Spring Boot

Storage: Local (MVP), AWS S3 (Production)

Database: PostgreSQL / MySQL

## **Phase 0 – Planning & Setup**

Finalize MVP, setup Git repo, initialize frontend and backend projects.

## **Phase 1 – Core Screen Recording**

Screen capture, mic capture, MediaRecorder integration, preview recording.

## **Phase 2 – Recording Controls & UX**

Start/Stop/Pause controls, timer, permission handling.

## **Phase 3 – Backend Upload & Storage**

Upload API, save files, generate video ID, store metadata.

## **Phase 4 – Video Playback & Sharing**

Public playback page, stream video, shareable link.

## **Phase 5 – Webcam Bubble (Advanced)**

Webcam capture, canvas overlay, record composed stream.

## **Phase 6 – Video Processing (Optional)**

Trim video, generate thumbnails, convert WebM to MP4.

## **Phase 7 – Authentication & Permissions**

User login/signup, JWT auth, public/private videos.

## **Phase 8 – Cloud & Scalability**

AWS S3 storage, CDN, chunked uploads.

## **Final Note**

If the app can demo: Record → Upload → Share → Watch, it is a strong portfolio project.