

Tech Stack for Connectify (Social Media App)

Category	Technology	Description
Frontend	React	JavaScript library for building user interfaces with components.
	TypeScript	
	Redux Toolkit	
	React Router	For handling navigation and routing between pages in a single-page application.
Backend	Spring Boot	Framework for building Java-based backend APIs, offering scalability and security.
	Java	
Database	MySQL	Relational database management system for storing user data and application data.
	MongoDB	

Chat System	Node.js	JavaScript runtime for building real-time chat functionality with WebSockets.
	Socket.IO	Library for enabling real-time, bidirectional communication between web clients and servers (used for chat).
Authentication	JWT (JSON Web Tokens)	For stateless authentication and secure user login/authorization.
Cache	Redis	In-memory data structure store used as a cache to improve performance.
API Design	RESTful APIs	Design pattern for creating standardized, stateless APIs to communicate between frontend and backend.
Real-time Communication	WebSockets	Protocol for real-time communication between server and client (used for chat).
Testing	Jest / Mocha / Chai	Testing frameworks for unit, integration, and end-to-end tests.
Version Control	Git / GitHub	Version control system for managing code and collaboration.