

Sprint Plan — Futuristic ChatApp

(MERN + Socket.IO + WebRTC + AI Features)

Sprint 1 — Core Infrastructure & MVP Chat (2 weeks)

Goals: Have a working secure chat foundation with real-time messaging.

Features:

- MERN stack setup (React + Vite frontend, Express + MongoDB backend)
- Socket.IO real-time messaging & typing indicators
- User authentication (JWT + OAuth for future)
- Basic E2EE message encryption setup
- Minimal UI (one-to-one chat)
- Profile creation & basic settings

Expected Time: 14 days

Reason: Foundational layer; everything else builds on this.

Sprint 2 — Group Chats, Media, and UI Polish (2 weeks)

Goals: Make the chat visually appealing & functional for groups.

Features:

- Group chat creation & management
- Sending images, videos, voice notes
- Online/offline status indicators
- Virtualized message list for performance
- Basic theme support (dark/light mode)

Expected Time: 14 days

Sprint 3 — AI Companion & Fallback Chat Mode (3 weeks)

Goals: Ensure users always have someone to talk to.

Features:

- AI Companion with personality customization
- AI memory (context storage)

- Fun Mode (jokes, quizzes, roleplay)
- Help Mode (productivity tips, personal assistant tasks)
- Emotional greeting & goodbye patterns

Expected Time: 21 days

Sprint 4 — Retention & Reward System Core (2 weeks)

Goals: Introduce gamified loops to hook users.

Features:

- XP & Levels system
- Badges (custom designs & conditions)
- Leaderboards (daily, weekly, monthly)
- Streak tracking (🔥)
- Daily Treasure Chest rewards

Expected Time: 14 days

Sprint 5 — Advanced Dark Psychological Hooks (3 weeks)

Goals: Deeply embed habit-forming & sticky features.

Features:

- Social guilt nudges (“Your friends are waiting!”)
- Rivalry & status display in profile
- Hidden mini-games in chat
- Random reward drops
- Scarcity countdown for special rewards
- Last online teasing (“You missed what X said”)

Expected Time: 21 days

Sprint 6 — Live Speech-to-Speech Translation & Global Mode (3 weeks)

Goals: Deliver the futuristic wow-factor.

Features:

- WebRTC-based voice/video calling

- Real-time speech recognition (ASR)
- Machine translation integration
- AI-generated subtitles in calls
- Global mode: auto-translate all incoming messages

Expected Time: 21 days

Sprint 7 — Infinite Content & Curiosity Layer (2 weeks)

Goals: Ensure there's *always something to do*.

Features:

- Infinite scroll for past chats
- AI-generated hot topics & trending chats
- Story mode for groups (interactive prompts)
- Curiosity gap notifications
- Surprise “loot box” messages

Expected Time: 14 days

Sprint 8 — Final Polish, Scalability & Launch (2 weeks)

Goals: Stabilize, optimize, and prepare for launch.

Features:

- Bug fixes & UI/UX refinements
- Load testing (Socket scaling)
- Security audits (E2EE verification)
- App Store & Play Store packaging (if PWA/Hybrid)
- Marketing launch assets

Expected Time: 14 days