

Team Roles & Workflow for Mental Health AI Assistant Project

1. Team Roles

Product Owner / Project Lead

- Define vision: advisor app, not treatment
- Write SRS, manage timeline, align team
- Coordinate with psychology advisors

Data & Knowledge Engineer (RAG Manager)

- Collect reliable mental health resources (WHO, APA, DOH Thailand)
- Preprocess, chunk, and embed documents
- Maintain vector database and retrieval pipeline

AI Engineer / Backend Developer

- Integrate LLM with RAG
- Implement safety filter (self-harm detection)
- Build APIs, logging, monitoring

Frontend Developer / UX Designer

- Design calming UI/UX for chat interface
- Implement mobile/web app
- Show citations and hotline button

Clinical Advisor (part-time/consultant)

- Review conversation flow for accuracy and safety
- Ensure alignment with ethical and psychological standards

2. Suggested Team Sizes

3 Members:

- Person 1: Product + Data
- Person 2: AI/Backend
- Person 3: Frontend/UX

4–5 Members:

- Product Owner (1)
- Data Engineer (1)
- Backend/AI (1–2)
- Frontend/UX (1)

3. Workflow (Sprint-based)

Sprint 1 (MVP)

- Finalize SRS & UX flow
- Collect initial dataset (anxiety/depression)
- Build basic RAG pipeline (LLM + retrieval)
- Prototype chat UI

Sprint 2

- Expand corpus and add citations
- Implement safety filters
- Add mood check-in & hotline feature
- Refine UI

Sprint 3

- Beta testing with small group
- Optimize retrieval and performance
- Polish UI/UX
- Prepare monitoring & scaling

4. Tools & Collaboration Tips

- GitHub/GitLab → issue tracking & kanban
- Notion/Google Docs → share requirements & references
- Figma → UI mockups
- Standups (15 min) → 2–3 times a week
- Sprint retrospective → improve each cycle