**File Structure Overview**

mental-health-app/

├── frontend/

│ ├── lib/

│ │ ├── main.dart # App entry point

│ │ ├── screens/

│ │ │ ├── chat\_screen.dart # Anonymous chat UI

│ │ │ ├── ai\_assessment.dart # AI mental health check

│ │ │ └── resources.dart # Self-help guides

│ │ ├── services/

│ │ │ ├── auth.dart # Anonymous login

│ │ │ └── encryption.dart # Signal Protocol implementation

│ └── pubspec.yaml # Flutter dependencies

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├── backend/

│ ├── firebase/

│ │ ├── firestore.rules # Security rules

│ │ └── functions/

│ │ └── index.js # Cloud Functions (AI triage logic)

│ └── README.md # Firebase setup guide

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├── ai-model/

│ ├── train\_model.py # BERT fine-tuning script

│ ├── risk\_assessment.py # AI prediction logic

│ └── sample\_dataset.csv # Anonymized training data

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├── peer-training/

│ ├── guidelines.md # Peer supporter training manual

│ └── quiz.md # Competency assessment

│

├── docs/

│ ├── PRIVACY.md # Data protection policy

│ └── SETUP.md # Installation steps

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├── .gitignore # Files to exclude from Git

├── LICENSE # MIT License

└── README.md # Project overview

NOTES

**Key Features Included**

1. **Frontend (Flutter)**:
   * Anonymous chat with encryption.
   * AI risk assessment screen.
   * Firebase integration for real-time data.
2. **Backend (Firebase)**:
   * Firestore security rules to protect user data.
   * Cloud Functions for AI triage and emergency alerts.
3. **AI Model (Python)**:
   * Pre-trained BERT model for text analysis.
   * Sample dataset for testing.
4. **Documentation**:
   * Step-by-step setup guide.
   * Privacy compliance checklist.