Product Brief: Life Review Conversational AI (MVP / Beta)

Purpose

Create a **conversational Al companion** that guides older adults through structured life review sessions. The system captures their stories, processes transcripts, and generates a **psychographic profile** that summarizes values, motivations, archetypes, and potential behavioral barriers. This profile becomes the foundation for future therapeutic personalization (med adherence, wellness engagement, behavior change).

Core User Flow

1. Welcome / Onboarding

- Senior user is greeted warmly via voice or chat.
- They are told: "I'll ask you questions about your life and capture your stories so your family (and care team) can understand you better."

2. Life Review Sessions

- 5–10 minute guided sessions with story prompts (e.g., "Tell me about a time you overcame a challenge," "What was your proudest accomplishment at work?").
- Conversational AI follows up naturally: "That sounds meaningful how did you feel in that moment?"

3. Capture & Processing

- Voice → Speech-to-text transcription.
- Transcripts stored securely.
- Basic NLP extracts: key entities (people, places, events), sentiment/emotion, recurring values, motivational language.

4. Psychographic Profile Generation

- After 3–5 sessions, system generates a structured profile:
 - Values (e.g., independence, family, faith, achievement).
 - Motivation style (approach vs. avoidance).
 - Archetype weighting (e.g., caregiver 0.7, explorer 0.4).
 - **Behavioral barriers** (e.g., forgetfulness, low self-efficacy, tech anxiety).
- Profile is shown in human-readable summary ("Mary is motivated by family duty, values independence, and prefers collaborative guidance.").

5. Output / Reporting

- User receives a **story digest** (short narrative summary of what they shared).
- Developers deliver an API-accessible psychographic profile object (JSON) that downstream apps can use to personalize interventions.

Key Features

Conversational Al Front-End

- Simple, warm, voice-enabled chatbot (phone, smart speaker, or mobile app).
- Scripted but flexible life-review prompts (10–20 starter prompts).

Story Capture

Audio recording + transcription (via ASR API).

• Profile Engine

- NLP pipeline for:
 - Topic detection

- Sentiment/emotion tagging
- Value/motivation/archetype extraction (rules-based + ML)

Profile Output

- o JSON object with psychographic scores.
- o Human-readable one-page "Whole-Person Snapshot."

Technical Requirements

• **Frontend**: Simple conversational interface (Twilio for phone, WebRTC for web, or mobile app prototype).

• Backend:

- ASR (e.g., Whisper, AssemblyAI, Google Speech-to-Text).
- NLP layer (OpenAI/GPT API for extraction + Python rules engine).
- Database (Postgres, Firebase, or DynamoDB) for transcript + profile storage.

Output:

- JSON profile object.
- PDF/HTML snapshot report.

MVP Deliverables

- Functional conversational prototype that:
 - o Greets a user.
 - Asks 3–5 life review questions.

- Records and transcribes answers.
- Runs NLP extraction.
- o Generates a basic psychographic profile (JSON + human-readable summary).
- Developer handoff should include:
 - o API endpoints for "start session," "submit transcript," "generate profile."
 - Demo app (web or mobile) where flow can be tested end-to-end.

Success Criteria (MVP)

- Can complete a 10-min guided life review session without failure.
- Produces transcripts with ≥85% accuracy.
- Generates a psychographic profile with at least 5 dimensions (values, motivation, archetypes, barriers, tone preference).
- Outputs both a JSON object and a summary report for human review.