Product Requirements Document

```
**Product Name:** SpecifAl -- "Say it. Ship it."

**Version:** 1.0 -- July 2 2025
```

1 - Vision

Enable Business Stakeholders to talk their ideas into production: one tap, speak a requirement, confirm an Al-generated spec, and ship it to GitHub as a fully-formed issue.

Developers (or autonomous agents) reply in the same thread, closing the feedback loop in minutes instead of days.

2 - Personas

3 - Goals & KPIs (MVP)

```
| KPI | Target | Measurement |
|-----|-----------|
| Time-to-Issue (voice -> GitHub) | <= 60 s | Timestamps |
| Clarification Rate (>= 1 comment) | -30% vs baseline | Before/after |
| MoM Retention (business users) | >= 40% | Supabase metrics |
```

4 - Functional Scope

- 1. Login / Project Pick -- GitHub OAuth (Supabase Auth), repo list.
- 2. Voice Capture & STT -- PWA mic, <= 2 min; raw audio -> Supabase Storage; Whisper v4 transcription.
- 3. Al Clarify Loop -- GPT-40 drafts issue; user confirms/edits.
- 4. GitHub Sync -- MCP server posts issue/comments; webhooks stream back to chat.
- 5. History & Search -- pgvector embeddings; 30-day audio retention (DSGVO).

5 - Non-functional

6 - Tech Architecture

```
graph TD
A(PWA - React 18) -->|Audio| T(Whisper API)
T --> C(Clarify-Chat)
C -->|Confirm| M(MCP Server - Node)
M -->|GraphQL| G[GitHub]
G -->|Webhooks| R(Supabase Realtime)
C -.-> D[(Supabase DB / Storage)]
T -.-> D
R --> C
| Layer | Tech |
|-----|
UI | React 18 PWA (Vite / Next.js 14) |
| UI-Kit | shadcn/ui + Tailwind |
| State | React-Query |
| Auth/Data | Supabase |
| AI | Whisper v4 + GPT-40 |
| Integrator | Node 18 (fastify) |
| Hosting | Supabase + Vercel Edge |
```

7 - DB Schema (Supabase)

```
create table projects (...);
create table project_members (...);
create table issues (...);
create table messages (...);
create table audio_files (...);
-- RLS policies as shown earlier
```

8 - Wireframes

Textual sketches omitted for brevity (see full design doc).

9 - Roadmap

10 - Risks

```
| Risk | Mitigation |
|-----|
| Whisper cost spikes | Clip limit + local trim |
| PWA background limits | <= 2 min recording, native app v2 |
| GitHub rate limits | Queue + back-off |
```

11 - Name & Claim

```
SpecifAI -- "Say it. Ship it."
```

12 - Open Questions

- 1. Auto-fix PR generation by MCP?
- 2. Roles (Reporter / Reviewer / Admin)?
- 3. On-prem STT for strict compliance?