

PRD - Product Requirements Document

Prodexa AI v1.0

1. Product Overview

Prodexa AI is an end-to-end autonomous assistant that converts raw product discovery inputs into structured product documentation and prioritization artifacts using AI.

The PRD specifies detailed product behavior and expected UX flow.

2. Problem Statement

Product teams deal with overwhelming volumes of raw qualitative data. Converting this into actionable insights and requirements is slow, repetitive, and error-prone.

This slows roadmap creation, leads to inconsistent documentation quality, and hinders alignment across teams.

Prodexa AI solves this by automating the early stages of the product lifecycle.

3. Product Goals

- Provide a single, unified tool to convert raw text → product documentation.
 - Generate high-quality artifacts with minimal human intervention.
 - Create a structured discovery → requirements → prioritization → roadmap pipeline.
 - Offer agentic automation for recurring processes (weekly digests, auto-updates).
 - Produce output consistent with PM/BA industry standards.
-

4. Features & Requirements

4.1 Input Module

Description:

User uploads or pastes:

- Meeting notes
- Customer complaints

- Sales transcripts
- Support tickets
- Feature requests
- Competitor notes

Requirements:

- UI supports text box & file upload (.txt, .md, .csv).
 - Maximum input size: 10,000 words.
 - OCR for image screenshots (phase 2 optional).
-

4.2 Discovery & Insights Module

AI Outputs:

- Summary
- Key themes
- Sentiment score
- Clusters (Pain point groupings)
- Opportunity areas

Requirements:

- Must return results within 10 seconds via Llama 3.1 Groq API.
 - Must support multiline text.
-

4.3 Root Cause Analysis Module

AI performs:

- 5 Whys analysis
 - Cause-effect chain
 - Dependencies
 - Risks
-

4.4 Requirements Generator

BRD Output Sections:

- Purpose
- Background
- Business Problem
- Business Requirements
- Goals & Objectives
- Success Metrics
- Assumptions
- Stakeholders
- Constraints
- Out-of-scope

PRD Output Sections:

- Vision & strategy
- Functional requirements
- Non-functional requirements
- Release criteria
- KPIs
- Future enhancements

4.5 User Stories + Acceptance Criteria

AI generates:

- Epics
- User stories
- Gherkin-style acceptance criteria
- Edge cases

4.6 Prioritization Engine

Must support:

- RICE scoring
- MoSCoW classification
- Impact-effort matrix

Output:

- Ranked feature backlog
 - Top 3 MVP recommendations
-

4.7 Roadmap Generator

AI must produce:

- MVP Sprint Plan
 - 30–60–90 day roadmap
 - Long-term roadmap
-

4.8 UI Requirements (Streamlit)

- Clean dashboard layout
- Left panel navigation
- Export outputs to Markdown or PDF
- Loading spinners for AI calls
- Tab layout:
 - Input
 - Insights
 - BRD
 - PRD
 - User Stories
 - Prioritization

- Roadmap
-

4.9 Agentic Automation (n8n)

Workflow 1 — Continuous Feedback Watcher

Trigger: Google Sheet / Notion DB

Action:

- Analyze new feedback
- Update BRD/PRD sections
- Store insights

Workflow 2 — Weekly Digest

Trigger: Cron

Action:

- Extract themes
- Summaries
- Send email

Workflow 3 — Backlog Auto-Updater (Optional)

Trigger: New feature detected

Action:

- Create Jira issue