

PDBUILDER AI Based Product development tool (Simplest Starter Model)

Who is it for?

- 1) First time startup founder who has never developed a new product
- 2) Non-technical founders who are concerned about the risks of creating a new product

What problem does it solve for them?

Allows them to go through a step by step process of developing the requirements for their MVP. MVP is what the investors want to see to invest.

STEPS

- 1) What problem do you want to solve? - Ask the user
- 2) Market Research - Ask user or data or approval to search online
- 3) Find the root cause(s) of the problem
- 4) Find existing solutions if available
- 5) Create an ideal customer profile (ICP)
- 6) Create the use case of how the customer would solve the problem
- 7) Create the product requirements for the product that the customer will use to solve the problem
- 8) Use RICE/ICE/MoSCoW technique to create the MVP product configuration/requirements that solve the rootcause of the problem.
- 9) Create a downloadable MVP configuration sheet
- 10) As the user for feedback
 - a) How did the tool help them?
 - b) What can be improved? etc....

Step-by-Step Flow for AI Agent (with Instructions for Replit Agent Implementation)

1. What problem do you want to solve?

User Input Required

- **Prompt Design:** Ask the user to describe a problem they've observed or experienced.
- **AI Function:** Summarize the user's input into a 1–2 sentence clear problem statement using NLP and clarity checks.
- **Validation Option:** Offer AI suggestions to clarify or sharpen vague or overly broad problems.

2. Market Research

User Input Required (or give permission to search)

- **AI Capability:** If approved, use APIs (e.g., SerpAPI or web scraping tools) to search Google, Reddit, or forums to find:
 - Market size
 - Similar existing products
 - Trends or complaints around the problem
- **Fallback:** Ask user if they have any existing market data or competitors in mind.
- **Output:** Short summary of findings + confidence level indicator.

3. Find the root cause(s) of the problem

User Input + AI Analysis

- **Prompt Design:** Ask "Why does this problem happen? What breaks or is missing?"
- **AI Agent Task:** Use iterative "5 Whys" questioning to dig deeper into the root cause.
- **Output:** Structured list of root causes (with the primary one flagged).

4. Find existing solutions (if available)

AI-Led or User-Guided

- **Options:**
 - Search online for existing solutions (web scraping or API-enabled).
 - Or allow the user to describe known solutions.

- **AI Output:** Comparative table listing existing solutions, pros/cons, pricing, target audience.
- **Optional:** Include a gap analysis: What's missing in those solutions?

5. Create an Ideal Customer Profile (ICP)

User Input + AI Suggestions

- **Prompt User:** Who experiences this problem the most?
 - Ask age, job role, income, goals, frustrations.
- **AI Capability:** Suggest 2–3 ICP profiles from similar product databases or templates.
- **Output:** Visual persona card + downloadable version.

6. Create the use case of how the customer would solve the problem

User Input or Select from Template

- **Prompt Design:** “Describe the day-in-the-life or journey of your ICP using the product.”
- **AI Enhancement:** Fill in steps based on best practices (e.g., Jobs-To-Be-Done format).
- **Output:** Use case narrative + optional flowchart.

7. Create the product requirements

AI Draft with Optional User Edits

- **AI Agent Task:** Convert use case into:
 - Features
 - Functions
 - Constraints
- **Format:** Automatically structure into a basic PRD (Product Requirements Document).
- **Optional:** Add user-defined priority tags (e.g., must-have, nice-to-have).

8. Use RICE / ICE / MoSCoW technique to prioritize MVP features

User Input + AI Score Calculator

- **Prompt User:** Define values for Reach, Impact, Confidence, Effort (RICE) or choose ICE/MoSCoW.
- **AI Function:** Auto-calculate scores and produce a sortable priority list.
- **Output:** Final prioritized MVP feature list.

9. Create a downloadable MVP configuration sheet

Auto-Generated

- **AI Output:** Create a visually appealing MVP Configuration PDF or DOCX that includes:
 - Problem
 - Root cause
 - ICP
 - Use case
 - Prioritized product requirements
- **Download Button:** Provide export option.

10. Ask the user for feedback

User Input Required

- **Prompt:** "How useful was this tool? What could be improved?"
- **AI Function:** Summarize and categorize feedback for future versions.
- **Optional:** Trigger survey or Net Promoter Score question (1–10 scale).

Implementation Notes for Replit Agent

- Use Replit's **multimodal tools** to:
 - Collect structured responses (forms, sliders, toggles)
 - Generate formatted documents (e.g., using Python libraries like `reportlab`, `docx`)
 - Store session data for continuity
- Add **checkpoint saving** and **editable cards** for users to revise earlier steps without restarting
- Consider embedding **educational tips/tooltips** along the way to support non-technical users