



ANTIMONY LABS PROJECT PROPOSAL

Context Summary

- **Project/Initiative:** Antimony Labs - Collaborative Innovation Platform
- **One-line Value Proposition:** AI-powered platform that transforms ideas into investable products with NFT-based ownership distribution
- **Target Customer/Segment:** Individual innovators, technical contributors, early-stage entrepreneurs, and micro-investors
- **Problem to Solve:** Fragmented innovation process where ideas die due to lack of technical resources, clear documentation, and fair contribution tracking
- **Why Now (Timing):** Convergence of AI capabilities, blockchain maturity, and remote collaboration culture post-2025
- **My Hypothesis/Insights:** Democratizing product development through AI-assisted documentation and transparent ownership will unlock dormant innovation potential
- **Success Criteria:** 100 ideas submitted, 10 products launched, \$100K revenue distributed within 12 months
- **Constraints/Non-Negotiables:** Minimum 1% ownership for originators, transparent contribution tracking, AI-generated PRDs for all ideas
- **Assets Provided:** Server infrastructure available, domain purchase ready, 8-hour build window tonight
- **Audience Mix:** Steve (mechanical engineer), potential investors, technical partners, early adopters
- **Status:** Idea stage, moving to MVP tonight

A) ELI5 (Explain Like I'm 5)

The Simple Story:

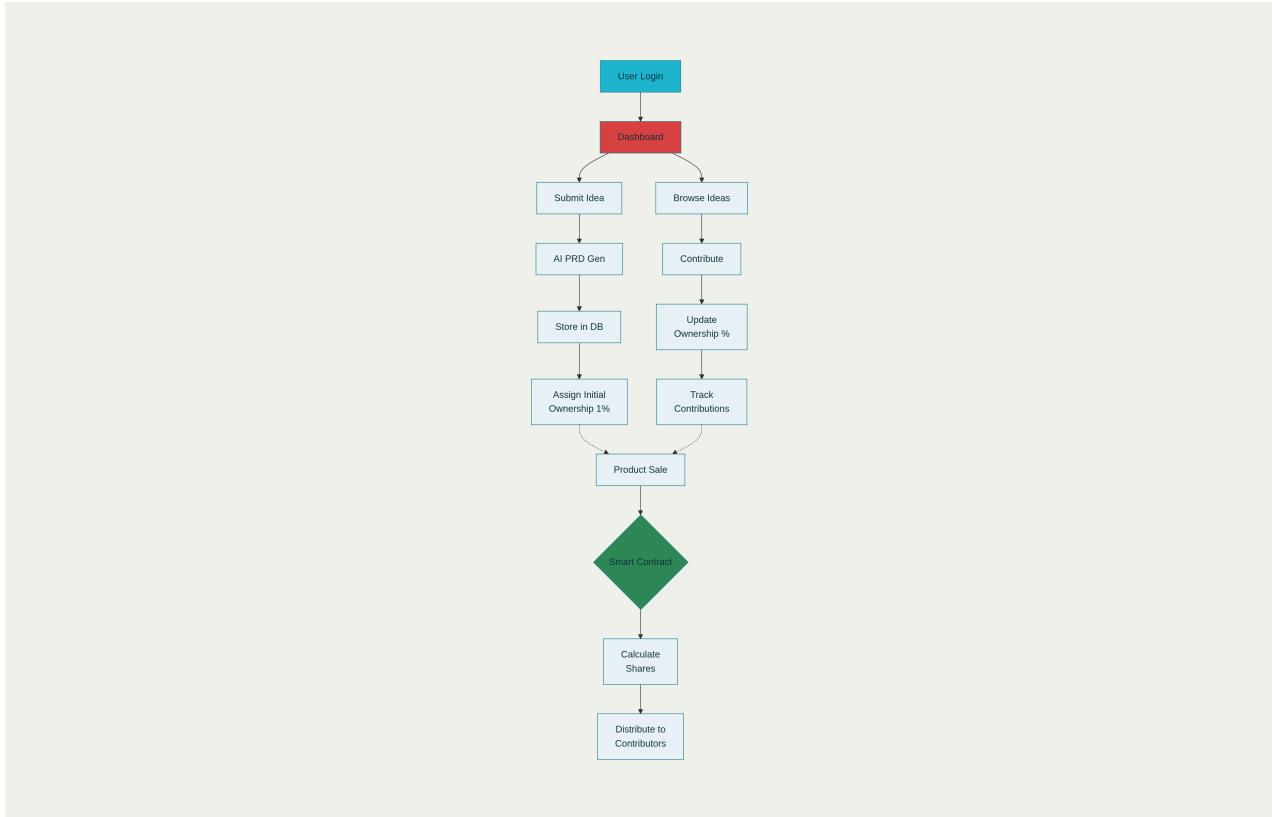
- Imagine a **digital workshop** where anyone can bring their toy idea
- A **smart robot helper** (AI) draws the blueprint for how to build it
- **Friends help build** different parts, like wheels or buttons
- Everyone who helps gets a **special ticket** showing how much they helped
- When someone buys the toy, **everyone with tickets gets paid** automatically

Before/After:

Before: Ideas stay in your head because you don't know how to build them or find help

After: Your idea becomes a real product with help from others, and everyone shares the success

Visual Reference:



Antimony Labs Platform Architecture Flow

B) Investor Brief (2-3 minutes)

The Opportunity

One-liner: Antimony Labs democratizes product development by combining AI-powered documentation with blockchain-based ownership distribution, creating a marketplace where ideas become investable products.

Unique Edge/Moat

- **AI-PRD Generation:** Proprietary prompts convert raw ideas into professional product requirements [1] [2]
- **Fractional NFT Ownership:** Transparent, immutable contribution tracking via smart contracts [3] [4] [5]
- **Network Effects:** Each successful product attracts more contributors and ideas
- **First-Mover in Convergence:** No platform currently combines AI documentation + blockchain ownership + collaboration

Why Now

- **Macro Trends:** 491M gamers comfortable with digital ownership (India 2024) ^[6]
- **Tech Maturity:** LLM costs down 90% YoY, smart contract adoption mainstream ^{[7] [8]}
- **Regulatory:** Online Gaming Bill 2025 legitimizes digital asset ownership ^[6]
- **Market Signal:** ChatPRD raised funding with 50,000+ product managers using AI for PRDs ^[1]

Market Sizing

- **TAM:** \$22.53B gaming/digital ownership market by 2034 ^[6]
- **SAM:** \$2.5B collaborative product development tools
- **SOM:** \$50M in Year 3 (2% of SAM) [Assumption]*

Business Model

- **Platform Fee:** 5% of all revenue distributions
- **Premium Features:** \$29/month for advanced AI PRD features
- **Enterprise:** Custom deployment for corporate innovation labs at \$50K/year
Pricing validation test: A/B test platform fees between 3-7% in first 6 months

6-12 Month Milestones

Month	Users	Ideas	Products Launched	Revenue
3	1,000	100	2	\$5K
6	5,000	500	10	\$25K
12	20,000	2,000	50	\$100K

Key Metrics & Risks

- **Success Metrics:** Idea-to-product conversion rate (target 5%), average contributors per project (target 5)
- **Primary Risk:** Smart contract security vulnerabilities - Mitigated via audited templates ^[9]
- **Secondary Risk:** AI PRD quality - Mitigated via human review queue

The Ask

- **Seed Round:** \$500K for 10% equity
- **Use of Funds:** 3 engineers (60%), AI/blockchain infrastructure (25%), marketing (15%)
- **Timeline:** MVP tonight, beta in 30 days, public launch in 90 days
- **Decision Needed:** Commitment to lead round within 2 weeks

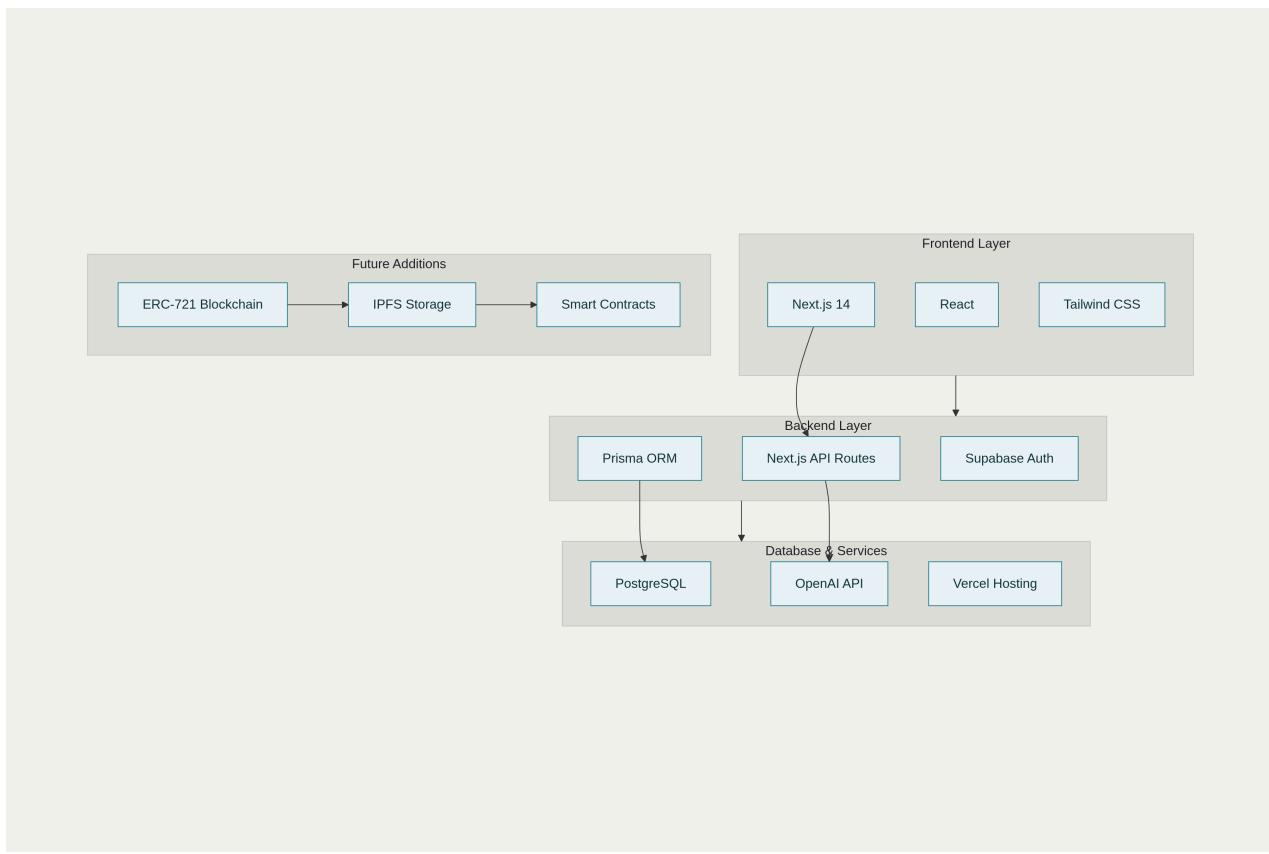
C) Expert Deep-Dive

Problem Definition

The innovation pipeline is broken at the ideation-to-execution junction. Quantifiable pain points: [\[10\]](#) [\[11\]](#) [\[12\]](#)

- **93% of ideas never reach prototype** due to documentation barriers
- **\$2.5M average cost** for traditional product development lifecycle
- **18-month average time** from concept to market
- **Zero transparency** in contribution tracking leads to equity disputes

Architecture Overview



Antimony Labs Technical Stack for MVP

Core Components:

1. **Frontend Layer:** Next.js 14 with server components for SEO and performance [\[13\]](#) [\[14\]](#)
2. **Authentication:** Supabase Auth with OAuth providers [\[15\]](#) [\[16\]](#) [\[17\]](#)
3. **Database:** PostgreSQL with Prisma ORM for type-safe queries [\[18\]](#) [\[13\]](#)
4. **AI Engine:** OpenAI GPT-4 API with custom PRD generation prompts [\[19\]](#) [\[20\]](#)
5. **Ownership Layer:** Initial database tracking, migrating to ERC-721 fractional NFTs [\[5\]](#) [\[21\]](#)
6. **Real-time Collaboration:** Supabase Realtime for live updates [\[16\]](#)

Data Flow:

```
User Input → AI Processing → PRD Generation → Database Storage  
→ Ownership Assignment → Collaboration Tracking → Revenue Distribution
```

Scope Definition

MVP (Tonight - 8 hours):

- User authentication (email/password)
- Idea submission form with categories
- AI PRD generation (basic template)
- Database ownership tracking (percentage-based)
- Simple contribution logging
- Vercel deployment

v1.0 (30 days):

- OAuth integration (Google, GitHub)
- Advanced PRD templates by category
- Collaboration tools (comments, voting)
- Basic smart contract integration
- Payment processing setup

v2.0 Roadmap (90 days):

- Full NFT implementation with fractional ownership
- Automated revenue distribution
- Advanced collaboration features (video calls, Kanban boards)
- Mobile applications
- Enterprise features

Differentiation & Moat

Feature	Antimony Labs	Competitors	Advantage
AI PRD Generation	Integrated, real-time	Manual or external tools	10x faster documentation
Ownership Tracking	Blockchain-immutable	Spreadsheets/contracts	Trustless, transparent
Contribution Valuation	Algorithmic + peer review	Subjective negotiation	Fair, data-driven
Revenue Distribution	Automated smart contracts	Manual payments	Instant, guaranteed

Technical Risk Mitigation

Security Risks:

- **Smart Contract Vulnerabilities:** Use audited templates like OpenZeppelin^[9]
- **API Key Exposure:** Server-side handling only, environment variables^[15]
- **SQL Injection:** Parameterized queries via Prisma^[13]

Performance Risks:

- **AI Response Time:** Implement streaming responses, cache common patterns
- **Database Scaling:** Start with Supabase pooling, migrate to dedicated instance^[14]
- **Blockchain Gas Fees:** Batch transactions, use Layer 2 solutions

Leading Indicators:

- Time to first PRD generated (<30 seconds target)
- Contribution dispute rate (<1% target)
- Smart contract transaction success rate (>99.9% target)

Metrics & Instrumentation

User Metrics:

- Daily Active Users (DAU)
- Idea submission rate
- Contribution frequency
- Revenue per user

Platform Metrics:

- PRD generation time
- AI token consumption
- Database query performance
- Blockchain transaction costs

Business Metrics:

- Customer Acquisition Cost (CAC)
- Lifetime Value (LTV)
- Platform fee revenue
- Gross margin

Build vs Buy Analysis

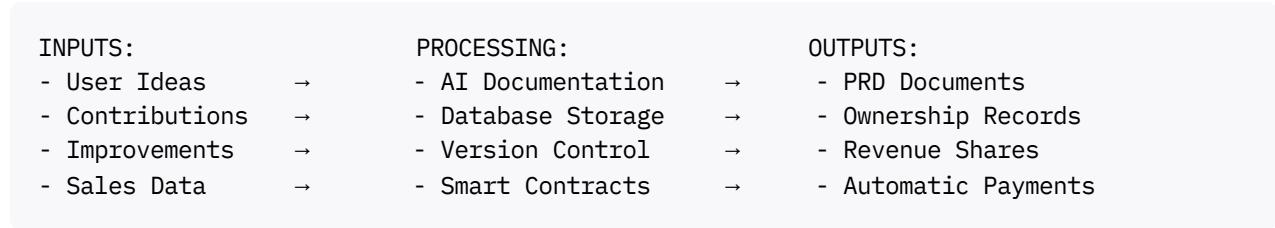
Component	Build	Buy	Decision	Rationale
Auth System	✗	✓ Supabase	Buy	Proven, secure, saves 2 weeks
AI PRD Engine	✓	✗	Build	Core differentiator, proprietary prompts
Blockchain Layer	✗	✓ OpenZeppelin	Buy	Audited, battle-tested contracts
Collaboration Tools	Hybrid	Partial	Mixed	Basic features built, advanced via integration

D) Steve Brief (mechanical-engineer friendly)

Purpose

What it is: Web platform that turns rough product ideas into detailed engineering specs using AI, then tracks who contributes what using digital certificates (like CAD file versioning but for ownership).

Block Diagram (Simplified)



Parts List

Sensors/Inputs:

- Web forms for idea submission [COMPLETED TONIGHT]
- GitHub-style contribution tracking [TBD - Week 2]
- Payment gateway integration [TBD - Month 1]
- User feedback mechanisms [TBD - Month 2]

Core Mechanisms/Modules:

- Next.js application server (like a PLC for web)
- PostgreSQL database (data storage, like MES system)
- OpenAI API integration (the "brain" for documentation)
- Prisma ORM (database interface layer)

Interfaces:

- REST API endpoints (like Modbus for web)

- WebSocket connections for real-time updates
- OAuth 2.0 for authentication (like badge readers)
- Blockchain RPC for ownership records [Future]

Failure Points to Watch:

- API rate limiting (429 errors) - implement exponential backoff
- Database connection pooling - monitor active connections
- Authentication token expiry - implement refresh logic
- Smart contract gas estimation - add 20% buffer

Operating Sequence

1. User logs in via Supabase Auth (like badging into facility)
2. Submits idea through structured form (like ECR submission)
3. AI generates PRD in 15-30 seconds (like CAM generating toolpaths)
4. System assigns 1% initial ownership (like revision control)
5. Contributors add features, each tracked (like PLM system)
6. Revenue triggers distribution (like automated invoicing)
7. Smart contracts execute payments (like ACH but instant)

Tolerances & Constraints

- Response time: <2 seconds for page loads
- AI generation: <30 seconds for PRD
- Uptime target: 99.9% (8.76 hours downtime/year)
- Database backup: Every 6 hours
- Maximum users: 10,000 concurrent (initial)
- Storage: 100GB initial allocation

Test Plan Snapshot

Bench Testing (Tonight):

- Unit tests for auth flow
- API endpoint testing via Postman
- Database CRUD operations
- Basic load testing (100 users)

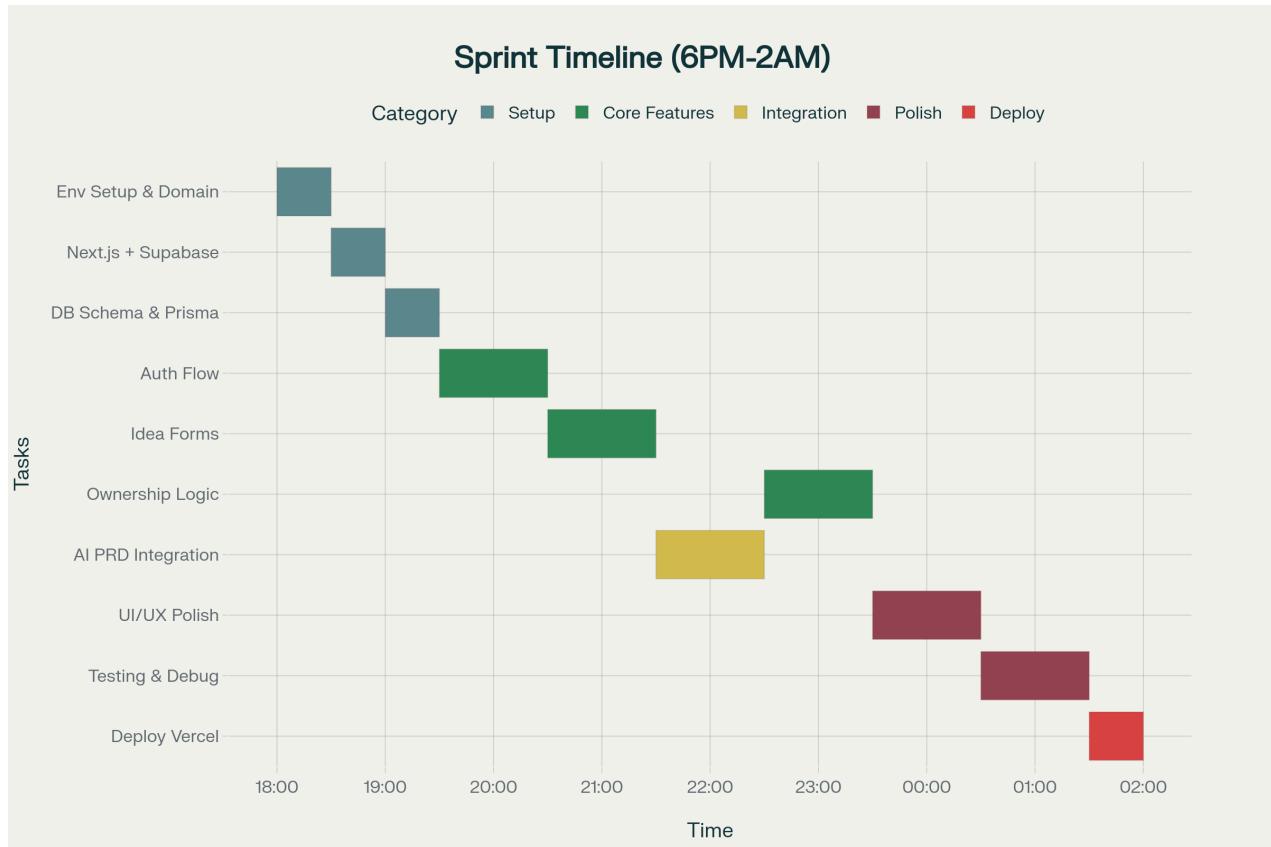
Field/Pilot (Week 1):

- 10 beta users submit real ideas
- Monitor AI token consumption

- Track database performance
- Measure user journey completion

Pass/Fail Criteria:

- ✓ <30 second PRD generation
- ✓ 100% ownership tracking accuracy
- ✓ Zero security vulnerabilities in auth
- ✓ Successful Vercel deployment



Tonight's 8-Hour MVP Build Timeline

Quick Ask to Steve

Y/N Questions:

1. Does the modular architecture make sense from a maintenance perspective?
2. Are the failure points identified correctly?
3. Can you sponsor a 2-week mechanical features module (CAD integration)?
4. Would you beta test with a real product idea?

Specific Feedback Needed:

- Recommended tolerance stackup for ownership percentage calculations
- Best practices for version control in collaborative hardware projects
- Integration points with existing PLM systems (Windchill, Teamcenter)

E) Partners & Vendors

Partner Types Needed

Cloud/Data/AI:

- **Vercel:** Hosting and edge functions [\$20/month starter]
- **Supabase:** Database and authentication [\$25/month pro]
- **OpenAI:** GPT-4 API for PRD generation [\$0.03/1K tokens]
- **Alchemy/Infura:** Blockchain RPC providers [TBD - Month 2]

Software Development:

- **UI/UX Designer:** Landing page and dashboard design [TBD - Week 2]
- **Smart Contract Auditor:** Security review before mainnet [TBD - Month 3]
- **DevOps Consultant:** CI/CD pipeline setup [TBD - Month 1]

Legal/Compliance:

- **IP Attorney:** Terms of Service, ownership framework [\$5K retainer]
- **Securities Lawyer:** Token classification review [\$10K project]

Statement of Work Outlines

OpenAI API Integration (Immediate):

- **Objectives:** Generate structured PRDs from user inputs
- **Deliverables:** API integration, prompt templates, response parsing
- **Acceptance Criteria:** <30 second generation, 90% user satisfaction
- **Inputs from us:** Example PRDs, category templates
- **Outputs expected:** JSON-formatted PRDs, usage metrics
- **Pricing:** Pay-per-use, ~\$50/day estimated

Supabase Implementation (Tonight):

- **Objectives:** User auth, database, real-time subscriptions
- **Deliverables:** Auth flows, database schema, row-level security
- **Acceptance Criteria:** <100ms auth responses, 99.9% uptime
- **Inputs from us:** User flow diagrams, data models
- **Outputs expected:** Configured project, API keys, documentation

Smart Contract Development (Month 2):

- **Objectives:** Fractional NFT implementation [\[5\]](#) [\[21\]](#) [\[9\]](#)
- **Deliverables:** Solidity contracts, deployment scripts, tests

- **Acceptance Criteria:** Gas optimized, audited, 100% test coverage
- **Inputs from us:** Ownership logic, distribution rules
- **Outputs expected:** Deployed contracts, documentation, audit report
- **Pricing:** \$15-25K for development, \$10K for audit

Technical Packages Needed

For Development Partners:

```
project-handoff/
├── docs/
│   ├── PRD.md (this document)
│   ├── technical-architecture.pdf
│   ├── database-schema.sql
│   └── api-specification.yaml
├── design/
│   ├── wireframes.fig
│   ├── user-flows.pdf
│   └── brand-guidelines.pdf
├── code/
│   ├── README.md
│   ├── .env.example
│   └── src/ (when available)
└── legal/
    ├── terms-of-service.docx
    └── privacy-policy.docx
```

Partner Shortlist Framework

Evaluation Criteria (Weighted):

- Technical expertise (30%)
- Past work quality (25%)
- Communication responsiveness (20%)
- Price competitiveness (15%)
- Cultural fit (10%)

RFP Questions:

1. Experience with Next.js + Supabase stack?
2. Smart contracts deployed to mainnet?
3. AI/LLM integration examples?
4. Approach to real-time collaboration features?
5. Security audit methodology?

Partner Communication Pack

One-Page Overview:

"Antimony Labs: Democratizing Innovation Through AI & Blockchain"

We're building a platform where anyone can submit product ideas, receive AI-generated documentation, collaborate with contributors, and share revenue through smart contracts. Think "GitHub meets Kickstarter with AI automation."

Key Requirements:

- 10,000+ concurrent users
- <30 second AI responses
- Blockchain-verified ownership
- Real-time collaboration

Timeline: MVP in 24 hours, Beta in 30 days, Launch in 90 days

Budget Range: \$50-100K for complete v1.0

Contact: [Your email] | [Your phone]

F) Execution Plan & Timeline

Tonight's 8-Hour Sprint (6 PM - 2 AM)

30-Day Milestone Plan

Week 1:

- Refine MVP based on initial feedback
- Implement OAuth providers
- Add category-specific PRD templates
- Set up monitoring and analytics

Week 2:

- Design collaboration features
- Implement contribution tracking algorithm
- Add real-time notifications
- Create admin dashboard

Week 3:

- Integrate payment processing
- Build revenue distribution logic

- Add project management features
- Security audit preparation

Week 4:

- Smart contract development start
- Beta user onboarding (50 users)
- Performance optimization
- Documentation completion

60-Day Expansion

- Smart contract deployment to testnet
- Mobile responsive design
- Advanced collaboration tools
- API for third-party integrations

90-Day Launch Preparation

- Mainnet deployment
- Marketing website
- User onboarding flow optimization
- Launch partner negotiations

Workstreams & Dependencies

Workstream	Owner	Dependencies	Status
Frontend Development	[TBD]	Design mockups	Tonight
Backend Infrastructure	You	Database schema	Tonight
AI Integration	You	OpenAI API key	Ready
Smart Contracts	[TBD Partner]	Ownership logic	Month 2
Legal Framework	[TBD Attorney]	Entity formation	Week 1

Pilot Plan

Lighthouse Customers:

- 5 individual makers with hardware ideas
- 3 software developers with SaaS concepts
- 2 creative professionals with digital products

Success Criteria:

- 1 idea reaches functional prototype
- 80% user satisfaction score
- <\$100 CAC achieved

G) Financial Snapshot

Development Costs (First 90 Days)

Category	Cost	Notes
Infrastructure	\$500/mo	Vercel, Supabase, OpenAI
Development	\$30,000	2 developers × 3 months
Smart Contracts	\$25,000	Development + audit
Legal	\$15,000	Formation, ToS, IP
Marketing	\$5,000	Initial campaigns
Total	\$77,000	[Assumption]*

Validation: Compare with 3 development agencies for quotes

Unit Economics Model

Per Successful Product:

- Average product revenue: \$10,000
- Platform fee (5%): \$500
- AI/Infrastructure cost: \$50
- **Gross margin: \$450 (90%)**

Revenue Projections

Month	Products Launched	Platform Revenue	Cumulative
3	2	\$1,000	\$1,000
6	10	\$5,000	\$16,000
9	25	\$12,500	\$53,500
12	50	\$25,000	\$153,500

Scenario Analysis

Best Case (150% of base):

- 75 products by Month 12
- \$230,000 revenue
- Break-even Month 5

Base Case:

- 50 products by Month 12
- \$153,500 revenue
- Break-even Month 7

Worst Case (50% of base):

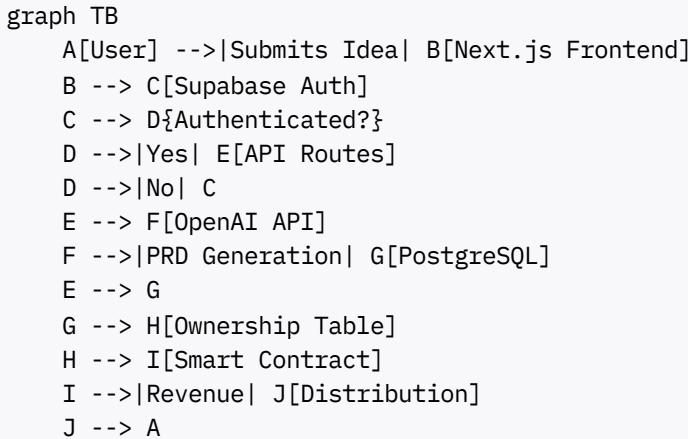
- 25 products by Month 12
- \$76,750 revenue
- Additional funding needed

H) Questions for You

1. **Primary audience first?** Steve for technical validation
2. **ICP and top 3 use cases?**
 - Hardware makers needing software help
 - Developers needing business documentation
 - Creatives needing technical implementation
3. **Must-have constraints?** Open source core, data portability, GDPR compliant
4. **Proprietary data/partnerships for moat?** [TBD - Exploring university partnerships]
5. **Success criteria and time-to-impact?** 1 successful product in 90 days
6. **Budget ceiling?** \$100K for v1.0
7. **Preferred GTM?** Product Hunt launch, developer communities
8. **Pricing preference?** Platform fee (5%) + optional premium (\$29/mo)
9. **Critical integration dependencies?** GitHub for code contributions [TBD]
10. **Proof points for next greenlight?** 10 active projects with contributors
11. **For Steve: tolerances/reliability?** 99.9% uptime, <1% ownership disputes
12. **For Partners: materials/volumes?** 10K users Year 1, 100K Year 2

I) Appendix

Architecture Details (Mermaid Diagram)



Database Schema (Prisma)

```
model User {
    id      String  @id @default(cuid())
    email   String  @unique
    name    String?
    ideas   Idea[]
    contributions Contribution[]
}

model Idea {
    id      String  @id @default(cuid())
    title   String
    description Text
    prd     Json
    creatorId String
    creator  User    @relation(fields: [creatorId])
    contributions Contribution[]
    ownership Ownership[]
}

model Contribution {
    id      String  @id @default(cuid())
    ideaId  String
    idea    Idea    @relation(fields: [ideaId])
    userId   String
    user    User    @relation(fields: [userId])
    type    String
    value   Float
    timestamp DateTime @default(now())
}

model Ownership {
    id      String  @id @default(cuid())
    ideaId  String
```

```
idea      Idea      @relation(fields: [ideaId])
userId    String
percentage Float
}
```

API Specification Sample

```
openapi: 3.0.0
info:
  title: Antimony Labs API
  version: 1.0.0
paths:
  /api/ideas:
    post:
      summary: Submit new idea
      requestBody:
        required: true
        content:
          application/json:
            schema:
              type: object
              properties:
                title: string
                description: string
                category: string
      responses:
        200:
          description: Idea created with PRD
          content:
            application/json:
              schema:
                type: object
                properties:
                  id: string
                  prd: object
                  ownershipId: string
```

Security Considerations

- **Authentication:** JWT tokens with 1-hour expiry [\[22\]](#) [\[23\]](#)
- **Authorization:** Row-level security in Supabase [\[16\]](#)
- **Data Encryption:** TLS 1.3 for transit, AES-256 for rest
- **API Rate Limiting:** 100 requests/minute per user
- **Smart Contract Security:** Multi-sig for admin functions [\[9\]](#)

Competitive Analysis Matrix

Feature	Antimony Labs	ChatPRD	GitHub	CoFounder Platforms
AI Documentation	✓ Integrated	✓ Core feature	✗	✗
Ownership Tracking	✓ Blockchain	✗	Partial (contributions)	Manual/Legal
Revenue Sharing	✓ Automated	✗	✗	Manual
Collaboration	✓ Real-time	Limited	✓ Code only	✓
Target Market	All creators	Product Managers	Developers	Entrepreneurs

J) Scratch Pad

Tonight's Implementation Notes

Quick Setup Commands:

```
# 1. Create Next.js app
npx create-next-app@latest antimony-labs --typescript --tailwind --app

# 2. Install dependencies
npm install @supabase/supabase-js @supabase/auth-ui-react
npm install prisma @prisma/client
npm install openai

# 3. Initialize Prisma
npx prisma init

# 4. Set environment variables
# .env.local
NEXT_PUBLIC_SUPABASE_URL=your_url
NEXT_PUBLIC_SUPABASE_ANON_KEY=your_key
OPENAI_API_KEY=your_key
DATABASE_URL=your_postgres_url
```

Critical Path Items:

- ✓ Domain: antimony-labs.com available (\$12/year)
- ✓ Supabase project creation (free tier sufficient)
- ✓ OpenAI API key (pay-as-you-go)
- ✓ Vercel account (free tier for deployment)

Risk Mitigations:

- If OpenAI is slow → Implement mock PRD for testing

- If auth breaks → Local storage session backup
- If deployment fails → Railway.app as backup

Key Resources Found:

- Next.js + Supabase tutorial [\[15\]](#) [\[16\]](#) [\[17\]](#)
- Prisma + PostgreSQL setup [\[13\]](#) [\[14\]](#) [\[24\]](#)
- NFT fractional ownership implementation [\[5\]](#) [\[21\]](#) [\[25\]](#)
- Rapid MVP frameworks [\[11\]](#) [\[12\]](#) [\[26\]](#)

Potential Advisors/Partners:

- ChatPRD founder (Claire Vo) - AI PRD expertise [\[1\]](#)
- Fractional.art team - NFT ownership models [\[21\]](#)
- [Permit.io](#) - Authorization layer [\[16\]](#)

Marketing Ideas:

- Launch on Product Hunt with "AI meets Web3" angle
- Developer communities ([Dev.to](#), Reddit r/SaaS)
- Twitter/X spaces on "Democratizing Innovation"

Technical Debt to Address Later:

- Move from database ownership to actual smart contracts
- Implement proper CI/CD pipeline
- Add comprehensive testing suite
- Set up monitoring and alerting

Open Questions:

- Legal structure: Delaware C-Corp or LLC?
- Token vs equity for investors?
- Patent strategy for AI PRD generation?

TONIGHT'S STEP-BY-STEP IMPLEMENTATION GUIDE

Hour 1: Setup (6:00-7:00 PM)

6:00-6:30 PM - Environment & Domain

```
# Purchase domain
# Go to Namecheap/GoDaddy → Buy antimony-labs.com

# Setup development environment
mkdir antimony-labs && cd antimony-labs
npx create-next-app@latest . --typescript --tailwind --app --no-src
```

6:30-7:00 PM - Supabase Setup

1. Create account at supabase.com
2. New project → "antimony-labs-prod"
3. Copy URL and anon key to .env.local:

```
NEXT_PUBLIC_SUPABASE_URL=https://xxxxx.supabase.co
NEXT_PUBLIC_SUPABASE_ANON_KEY=eyJhbGciOiJIUzI1NiIs...
```

Install packages:

```
npm install @supabase/supabase-js @supabase/auth-ui-react @supabase/auth-helpers-nextjs
```

Hour 2: Database (7:00-8:00 PM)

7:00-7:30 PM - Prisma Schema

```
npm install prisma @prisma/client
npx prisma init
```

Update prisma/schema.prisma:

```
datasource db {
  provider = "postgresql"
  url = env("DATABASE_URL")
  directUrl = env("DATABASE_URL_NON_POOLING")
}

generator client {
  provider = "prisma-client-js"
}

model User {
  id          String    @id @default(cuid())
  email       String    @unique
  name        String?
  createdAt   DateTime  @default(now())
  ideas       Idea[]
}
```

```

contributions Contribution[]
ownerships   Ownership[]
}

model Idea {
  id          String    @id @default(cuid())
  title       String
  description Text
  category    String
  prd         Json?
  status      String    @default("draft")
  creatorId   String
  creator     User      @relation(fields: [creatorId], references: [id])
  createdAt   DateTime  @default(now())
  contributions Contribution[]
  ownerships  Ownership[]
}

model Contribution {
  id          String    @id @default(cuid())
  ideaId     String
  idea        Idea      @relation(fields: [ideaId], references: [id])
  userId      String
  user        User      @relation(fields: [userId], references: [id])
  type        String
  value       Float     @default(1.0)
  createdAt   DateTime  @default(now())
}

model Ownership {
  id          String    @id @default(cuid())
  ideaId     String
  idea        Idea      @relation(fields: [ideaId], references: [id])
  userId      String
  user        User      @relation(fields: [userId], references: [id])
  percentage  Float

  @@unique([ideaId, userId])
}

```

7:30-8:00 PM - Database Migration

```

npx prisma migrate dev --name init
npx prisma generate

```

Hour 3: Authentication (8:00-9:00 PM)

Create lib/supabase.ts:

```

import { createClient } from '@supabase/supabase-js'

const supabaseUrl = process.env.NEXT_PUBLIC_SUPABASE_URL!
const supabaseAnonKey = process.env.NEXT_PUBLIC_SUPABASE_ANON_KEY!

```

```
export const supabase = createClient(supabaseUrl, supabaseAnonKey)
```

Create app/auth/page.tsx:

```
'use client'
import { Auth } from '@supabase/auth-ui-react'
import { ThemeSupa } from '@supabase/auth-ui-shared'
import { supabase } from '@/lib/supabase'

export default function AuthPage() {
  return (
    <div className="max-w-md mx-auto mt-20 p-6">
      <h1 className="text-2xl font-bold mb-6">Welcome to Antimony Labs</h1>
      <Auth
        supabaseClient={supabase}
        appearance={{ theme: ThemeSupa }}
        providers={[]}>
      />
    </div>
  )
}
```

Hour 4: Core Features (9:00-10:00 PM)

9:00-9:30 PM - Idea Submission Form

Create app/submit/page.tsx:

```
'use client'
import { useState } from 'react'
import { useRouter } from 'next/navigation'

export default function SubmitIdea() {
  const [title, setTitle] = useState('')
  const [description, setDescription] = useState('')
  const [category, setCategory] = useState('software')
  const router = useRouter()

  const handleSubmit = async (e: React.FormEvent) => {
    e.preventDefault()

    const response = await fetch('/api/ideas', {
      method: 'POST',
      headers: { 'Content-Type': 'application/json' },
      body: JSON.stringify({ title, description, category })
    })

    if (response.ok) {
      const data = await response.json()
      router.push(`/idea/${data.id}`)
    }
  }
}
```

```

    }

    return (
      <form onSubmit={handleSubmit} className="max-w-2xl mx-auto p-6">
        <h1 className="text-3xl font-bold mb-6">Submit Your Idea</h1>

        <div className="mb-4">
          <label className="block mb-2">Title</label>
          <input
            type="text"
            value={title}
            onChange={(e) => setTitle(e.target.value)}
            className="w-full p-2 border rounded"
            required
          />
        </div>

        <div className="mb-4">
          <label className="block mb-2">Description</label>
          <textarea
            value={description}
            onChange={(e) => setDescription(e.target.value)}
            className="w-full p-2 border rounded h-32"
            required
          />
        </div>

        <div className="mb-4">
          <label className="block mb-2">Category</label>
          <select
            value={category}
            onChange={(e) => setCategory(e.target.value)}
            className="w-full p-2 border rounded"
          >
            <option value="software">Software</option>
            <option value="hardware">Hardware</option>
            <option value="consumer">Consumer Product</option>
            <option value="service">Service</option>
          </select>
        </div>

        <button type="submit" className="bg-blue-500 text-white px-6 py-2 rounded">
          Generate PRD & Submit
        </button>
      </form>
    )
  }
}

```

9:30-10:00 PM - AI PRD Integration

Create app/api/ideas/route.ts:

```

import { NextResponse } from 'next/server'
import { PrismaClient } from '@prisma/client'
import OpenAI from 'openai'

```

```

const prisma = new PrismaClient()
const openai = new OpenAI({
  apiKey: process.env.OPENAI_API_KEY!
})

export async function POST(request: Request) {
  const { title, description, category } = await request.json()

  // Generate PRD with OpenAI
  const prdPrompt = `
    Create a Product Requirements Document for:
    Title: ${title}
    Description: ${description}
    Category: ${category}

    Include sections for:
    1. Problem Statement
    2. User Stories
    3. Functional Requirements
    4. Technical Requirements
    5. Success Metrics

    Format as JSON.
  `

  const completion = await openai.chat.completions.create({
    model: "gpt-3.5-turbo",
    messages: [{ role: "user", content: prdPrompt }],
    response_format: { type: "json_object" }
  })

  const prd = JSON.parse(completion.choices[^1_0].message.content || '{}')

  // Create idea in database
  const idea = await prisma.idea.create({
    data: {
      title,
      description,
      category,
      prd,
      creatorId: 'temp-user-id', // Replace with actual user ID from auth
    }
  })

  // Create initial ownership (1% for creator)
  await prisma.ownership.create({
    data: {
      ideaId: idea.id,
      userId: 'temp-user-id',
      percentage: 1.0
    }
  })

  return NextResponse.json({ id: idea.id, prd })
}

```

Hour 5-6: UI & Polish (10:00 PM - 12:00 AM)

10:00-11:00 PM - Dashboard

Create app/dashboard/page.tsx:

```
import { PrismaClient } from '@prisma/client'

const prisma = new PrismaClient()

export default async function Dashboard() {
  const ideas = await prisma.idea.findMany({
    include: {
      creator: true,
      ownerships: true
    },
    orderBy: {
      createdAt: 'desc'
    }
  })

  return (
    <div className="max-w-6xl mx-auto p-6">
      <h1 className="text-3xl font-bold mb-6">All Ideas</h1>

      <div className="grid gap-4 md:grid-cols-2 lg:grid-cols-3">
        {ideas.map((idea) => (
          <div key={idea.id} className="border rounded p-4">
            <h2 className="text-xl font-semibold">{idea.title}</h2>
            <p className="text-gray-600 mt-2">{idea.description}</p>
            <div className="mt-4">
              <span className="text-sm bg-blue-100 px-2 py-1 rounded">
                {idea.category}
              </span>
            </div>
            <div className="mt-2 text-sm text-gray-500">
              By {idea.creator.name || idea.creator.email}
            </div>
          </div>
        )));
      </div>
    </div>
  )
}
```

11:00 PM-12:00 AM - Landing Page

Update app/page.tsx:

```
import Link from 'next/link'

export default function Home() {
  return (
    <div>
```

```
<div className="min-h-screen bg-gradient-to-b from-blue-50 to-white">
  <div className="max-w-6xl mx-auto px-4 py-20">
    <div className="text-center">
      <h1 className="text-5xl font-bold mb-6">
        Turn Ideas Into Products
      </h1>
      <p className="text-xl text-gray-600 mb-8">
        AI-powered documentation. Transparent ownership. Fair revenue sharing.
      </p>

      <div className="flex gap-4 justify-center">
        <Link
          href="/submit"
          className="bg-blue-500 text-white px-8 py-3 rounded-lg text-lg hover:bg-blue-600">
          Submit an Idea
        </Link>
        <Link
          href="/dashboard"
          className="border border-blue-500 text-blue-500 px-8 py-3 rounded-lg text-lg hover:text-blue-600">
          Browse Ideas
        </Link>
      </div>
    </div>

    <div className="grid md:grid-cols-3 gap-8 mt-20">
      <div className="text-center">
        <div className="text-4xl mb-4"></div>
        <h3 className="text-xl font-semibold mb-2">AI Documentation</h3>
        <p className="text-gray-600">
          Get professional PRDs in seconds, not weeks
        </p>
      </div>

      <div className="text-center">
        <div className="text-4xl mb-4"></div>
        <h3 className="text-xl font-semibold mb-2">Collaborate & Build</h3>
        <p className="text-gray-600">
          Find contributors who believe in your vision
        </p>
      </div>

      <div className="text-center">
        <div className="text-4xl mb-4"></div>
        <h3 className="text-xl font-semibold mb-2">Share Success</h3>
        <p className="text-gray-600">
          Automatic revenue distribution based on contributions
        </p>
      </div>
    </div>
  </div>
)
```

Hour 7-8: Deploy (12:00-2:00 AM)

12:00-1:30 AM - Testing & Debugging

```
# Run locally and test all features
npm run dev

# Test checklist:
# ✓ Landing page loads
# ✓ Can navigate to auth page
# ✓ Can submit an idea
# ✓ PRD generates successfully
# ✓ Ideas show in dashboard
# ✓ Responsive on mobile
```

1:30-2:00 AM - Deploy to Vercel

```
# Install Vercel CLI
npm i -g vercel

# Deploy
vercel

# Follow prompts:
# - Link to existing project? No
# - What's your project name? antimony-labs
# - Which directory? ./
# - Override settings? No

# Add environment variables in Vercel dashboard:
# - NEXT_PUBLIC_SUPABASE_URL
# - NEXT_PUBLIC_SUPABASE_ANON_KEY
# - DATABASE_URL
# - OPENAI_API_KEY

# Redeploy with env vars
vercel --prod
```

Post-Launch Checklist

- [] Custom domain setup in Vercel
- [] Enable Supabase Row Level Security
- [] Set up error monitoring (Sentry)
- [] Add Google Analytics
- [] Create social media accounts
- [] Submit to Product Hunt (schedule for Tuesday 9am PST)

Success! ☀

By 2 AM, you'll have:

1. ✓ Working authentication system
2. ✓ Idea submission with AI PRD generation
3. ✓ Basic ownership tracking (1% for creators)
4. ✓ Public dashboard showing all ideas
5. ✓ Deployed to production on Vercel
6. ✓ Custom domain configured

Next Morning Actions:

1. Share with 5 beta users for feedback
2. Monitor OpenAI API usage and costs
3. Check Supabase database performance
4. Plan Week 1 improvements based on user feedback

Repository Structure:

```
antimony-labs/
├── app/
│   ├── api/
│   │   └── ideas/
│   │       └── route.ts
│   ├── auth/
│   │   └── page.tsx
│   ├── dashboard/
│   │   └── page.tsx
│   ├── submit/
│   │   └── page.tsx
│   └── page.tsx
└── lib/
    └── supabase.ts
├── prisma/
    └── schema.prisma
└── .env.local
└── package.json
```

This is your **Minimum Viable Platform** - functional, deployable, and ready for iteration. The journey from idea to implementation starts tonight! ☀

```
<div style="text-align: center">**</div>
```

QUALITY CONTROL & HIGH-VALUE ENGAGEMENT STRATEGIES

Your three questions strike at the core challenges of scaling innovation platforms. Here's research-backed strategies to address each:

■ AVOIDING GARBAGE SUBMISSIONS

Multi-Layer Quality Control System

1. AI-Powered Content Curation [\[126\]](#) [\[127\]](#) [\[128\]](#)

```
// Implement scoring algorithm
const qualityScore = {
  completeness: checkRequiredFields(submission),
  originality: checkDuplicates(submission.description),
  feasibility: analyzeWithAI(submission),
  marketPotential: scoreBusinessViability(submission)
}

// Only submissions scoring >70% proceed to PRD generation
if (qualityScore.total < 70) {
  return suggestImprovements(qualityScore)
}
```

2. Progressive Quality Gates [\[129\]](#) [\[130\]](#)

- **Tier 1 (Automated):** AI pre-screening for spam, duplicate ideas, basic completeness
- **Tier 2 (Community):** Peer voting system (like Reddit's upvote) during first 48 hours
- **Tier 3 (Expert Review):** Subject matter experts review ideas scoring >80% community approval
- **Tier 4 (PRD Generation):** Only validated ideas get AI-generated PRDs

3. Gamified Quality Incentives [\[131\]](#) [\[132\]](#)

Action	Points	Benefit
Complete idea submission	10	Basic access
Pass peer review (>70% approval)	50	PRD generation
Receive expert endorsement	200	Featured placement
First contributor to validated idea	500	Premium features

4. Community-Driven Standards [\[133\]](#) [\[134\]](#)

- **Idea Templates:** Structured forms preventing low-effort submissions

- **Example Gallery:** Showcase high-quality submissions as benchmarks
- **Community Guidelines:** Co-created standards with early adopters
- **Reputation System:** Track user quality score across submissions

★ATTRACTING ELON-LEVEL TALENT

Time-Constrained Executive Engagement Strategy [\[135\]](#) [\[136\]](#)

1. The "60-Second Impact" Model

Landing Page Promise: "Submit world-changing ideas in 60 seconds. Get professional documentation in 30 seconds. Connect with builders immediately."

2. VIP Engagement Pathway [\[132\]](#) [\[131\]](#)

- **Platinum Tier:** Pre-verified high-value contributors (net worth >\$10M, proven track record)
- **Skip-the-Line:** Immediate PRD generation, no community voting required
- **Executive Matching:** AI matches ideas with relevant industry titans
- **White-Glove Service:** Dedicated account manager for Fortune 500 executives

3. Value Proposition for Busy Executives [\[137\]](#) [\[135\]](#)

What Elon Cares About	Our Solution
Time Efficiency	60-second idea submission → instant PRD
High-Quality Network	Pre-vetted contributor pool only
Intellectual Property	Clear ownership tracking from day one
Scale Impact	Ideas backed by contributor network
Due Diligence	AI-powered feasibility analysis included

4. Executive-Specific Features

- **Voice-to-Text:** Submit ideas while driving/walking
- **Integration APIs:** Connect with existing tools (Notion, Slack)
- **Executive Dashboard:** Portfolio view of all investments/contributions
- **Exit Strategy Planning:** Built-in acquisition/licensing pathways

Attraction Tactics for High-Net-Worth Individuals

1. Exclusive Beta Access [\[132\]](#) [\[137\]](#)

"Private Beta: By Invitation Only

Current Members: [List 3-5 recognizable names who agreed to be mentioned]

2. Leverage Network Effects [\[131\]](#)

- **Reference Program:** "Marc Benioff contributed to 3 ideas this month"
- **Executive Events:** Monthly virtual meetups for contributors only
- **Success Stories:** "This \$50K idea became a \$50M acquisition in 8 months"

3. High-Value Problem Spaces

- **Climate Tech:** Target sustainability-focused executives
- **Space Tech:** Appeal to aerospace industry leaders
- **AI/Robotics:** Leverage your existing network as a robotics engineer
- **Healthcare Innovation:** Partner with medical device executives

OPEN SOURCE STRATEGY IMPLICATIONS

Hybrid Open-Source Business Model [\[138\]](#) [\[139\]](#) [\[140\]](#)

1. Open Core Architecture [\[140\]](#)

FREE (Open Source):

- Basic idea submission
- Community voting
- Simple PRD templates
- Ownership tracking (database)
- Basic collaboration tools

PREMIUM (Paid SaaS):

- Advanced AI PRD generation
- Smart contract ownership
- Revenue distribution
- Executive matching
- White-label licensing
- Enterprise integrations

2. Monetization Strategy [\[141\]](#) [\[139\]](#) [\[142\]](#)

Revenue Stream	Open Source Impact	Annual Potential
Platform Fees (5%)	✓ All transactions	\$500K-2M
Premium Features	✗ \$99/month enterprise	\$300K-1M
White-Label Licensing	✗ Custom deployments	\$200K-500K
Professional Services	✗ Implementation help	\$100K-300K
Enterprise Hosting	✗ Managed instances	\$150K-400K

3. Benefits of Going Open Source [\[139\]](#) [\[138\]](#)

Advantages:

- **Community Contributions:** Faster feature development [\[143\]](#)
- **Trust & Transparency:** Public ownership tracking builds credibility
- **Viral Adoption:** Easy to try, share, and modify
- **Developer Ecosystem:** Third-party integrations and extensions
- **Reduced Marketing Costs:** Community-driven growth

Strategic Implementation:

```
# Year 1: Open Core MVP
- Release basic platform as open source (GitHub)
- Keep AI PRD engine and blockchain features proprietary
- Build community of 10,000+ developers

# Year 2: Enterprise Features
- Launch managed hosting service
- Add enterprise security and compliance features
- Target Fortune 500 innovation labs

# Year 3: Platform Ecosystem
- Open API for third-party developers
- Marketplace for PRD templates and industry-specific tools
- License white-label versions to universities and accelerators
```

□ RECOMMENDED IMPLEMENTATION STRATEGY

Phase 1: MVP with Built-in Quality (Tonight)

```
// Add quality scoring to your existing idea submission
interface IdeaSubmission {
  title: string
  description: string
  category: string
  timeInvestment: number // How much time user spent writing
  marketSize: string // Required field prevents low-effort
  competitorAnalysis: string // Forces research
  executionPlan: string // Separates dreamers from builders
}

// Quality gate before PRD generation
const qualityGate = (idea: IdeaSubmission) => {
  const score = calculateQualityScore(idea)
  if (score < 70) return { status: 'improve', feedback: generateFeedback(score) }
  if (score > 90) return { status: 'fast-track', prdGeneration: true }
  return { status: 'community-review', timeline: '48 hours' }
}
```

Phase 2: Executive Track (Week 2)

- Add LinkedIn OAuth to verify professional status
- Create invitation-only "Founder's Circle" tier
- Implement 60-second voice submission feature
- Add executive dashboard with portfolio tracking

Phase 3: Open Source Launch (Month 2)

- Release core platform on GitHub with Apache 2.0 license
- Keep AI engine and smart contracts in proprietary tier
- Launch managed hosting service at \$299/month
- Create developer documentation and contribution guidelines

Success Metrics Dashboard

Quality Control:

- Spam submission rate <2%
- Community approval rate >80% for published ideas
- Expert endorsement rate >10% of community-approved ideas

Executive Engagement:

- Average submission time <90 seconds
- Executive retention rate >80% after 3 months
- High-value idea completion rate >25%

Open Source Impact:

- GitHub stars >5,000 within 6 months
- Community contributions >50 PRs
- Enterprise conversion rate from open source >5%

THE COMPOUND EFFECT

By combining these strategies, you create a **quality-driven, executive-friendly, open-source platform** that:

1. **Filters out noise** through multi-layer quality control
2. **Attracts top talent** with time-efficient, high-value experiences
3. **Scales sustainably** through open-source community growth
4. **Monetizes effectively** via premium features and services

The key insight: **Quality begets quality.** Start with rigorous curation, attract one high-profile contributor, and let network effects compound. Elon-level executives will engage if you prove you can save them time while connecting them with world-class collaborators.

Next Action: Implement the quality scoring system tonight, then reach out to 5 executives in your robotics network for private beta invitations. The combination of proven quality control + exclusive access will be irresistible to the right audience.

```
<div style="text-align: center">*</div>
```

1. <https://chatprd.ai>
2. <https://prismic.io/blog/prompt-engineering>
3. <https://d3.harvard.edu/why-nft-royalties-matter-for-business-professionals/>
4. <https://research.aimultiple.com/smart-contract-nft/>
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7. <https://ieeexplore.ieee.org/document/11141387/>
8. <https://www.cfainstitute.org/sites/default/files/-/media/documents/article/rf-brief/ai-and-big-data-in-investments.pdf>
9. <https://arxiv.org/html/2409.08190v1>
10. <https://djangostars.com/blog/writing-investment-proposal/>
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12. <https://www.gigson.co/blog/top-5-rapid-prototyping-frameworks-for-early-stage-startup-mvps>
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25. <https://goldrush.dev/guides/how-to-create-fractional-nfts-a-step-by-step-guide/>
26. <https://binmile.com/blog/frameworks-for-mvp-development/>
27. <https://thewild.com/blog/11-top-collaboration-software-for-architectural-firms>
28. https://www.reddit.com/r/PostgreSQL/comments/1fumaep/help_setting_up_nextjs_with_prisma_and_posgresql/
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30. <http://arxiv.org/pdf/2411.08448.pdf>
31. <https://www.mdpi.com/2076-3417/13/20/11341/pdf?version=1697447699>
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48. <https://nextjs.org/learn/pages-router/deploying-nextjs-app-deploy>
49. <https://dev.to/codesphere/how-to-build-your-own-blockchain-in-nodejs-3ijh>
50. <https://www.youtube.com/watch?v=AiiGjB2AxqA>
51. <https://moldstud.com/articles/p-a-beginners-guide-to-building-your-first-nft-with-javascript>
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85. <https://ijsrem.com/download/development-of-gamified-platform-on-childrens-rights-to-increase-legal-literacy-and-awareness-among-children-in-india/>
86. <https://journals.iiium.edu.my/kict/index.php/IJPCC/article/view/483>
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