

1 MASTER PRD PROMPT (Idea → Architecture → Structure → Execution)

Use this as the FIRST prompt after you finalize the problem statement.

◆ Prompt: PRD + Architecture + Repo Structure

You are a senior product architect + tech lead.

Context:

- Hackathon project
- Team of 3
- Frontend: Next.js (App Router, TypeScript, Tailwind)
- Backend: Supabase (Auth, Database, Storage, Edge Functions if needed)
- Auth: Supabase Email + Google OAuth
- 3D / Pricing visuals: Spline
- Payments: Stripe (or best suitable gateway)
- Deployment: Vercel (frontend), Supabase (backend)

TASK:

Create a COMPLETE PRD that the entire team will follow strictly.

PRD MUST INCLUDE:

1. PRODUCT IDEA

- Problem statement (real-world, hackathon-friendly)
- Target users
- Pain points
- Why existing solutions are weak
- Core idea (1–2 sentences)
- Driving force / innovation (what makes this stand out)

2. SOLUTION BREAKDOWN

- How the product solves the problem step-by-step
- User journey (from landing → auth → core feature → payment if any)

- Key features (MVP vs nice-to-have)

3. TECH STACK (WITH PURPOSE)

For each technology:

- Why it is chosen
- What responsibility it handles

Example:

- Next.js → UI, routing, SEO
- Supabase Auth → Authentication & session handling
- Supabase DB → User data, profiles, app data
- Spline → Interactive pricing / feature visualization
- Stripe → Secure payments

4. GLOBAL PROJECT FOLDER STRUCTURE (MANDATORY)

- One mono-repo
- Clear separation
- Stable structure to avoid merge conflicts

REQUIRED ROOT STRUCTURE:

```
/  
|—— frontend/  
|   |—— app/  
|   |   |—— (auth)/  
|   |   |—— dashboard/  
|   |   |—— profile/  
|   |   |—— pricing/  
|   |   |—— api/  
|   |   |—— components/  
|   |   |—— lib/  
|   |—— hooks/  
|   |—— styles/
```

```
| └── types/
|
|   ├── backend/
|   |   ├── supabase/
|   |   |   ├── migrations/
|   |   |   ├── seed.sql
|   |   |   └── functions/
|   |   └── schema/
|   └── policies/
|
|   └── docs/
|       ├── prd.md
|       ├── api-contracts.md
|       └── frontend-backend-sync.md
|
└── README.md
```

Explain each folder's responsibility.

5. DATABASE DESIGN (SUPABASE)

- Tables
- Fields
- Relations
- Auth ↔ Profile linking
- RLS policy overview

6. API CONTRACTS (IMPORTANT)

- Define frontend ↔ backend data contracts
- Example:
 - getUserProfile(userId) → returns { name, avatar, role }
 - This is NON-NEGOTIABLE to keep sync

7. DEVELOPMENT RULES

- No direct DB access from frontend except via Supabase client
- All pages must have backend readiness before UI finalization
- No last-moment integration

8. DEPLOYMENT & ENV STRATEGY

- Env variables
- Local vs prod

OUTPUT FORMAT:

- Clean markdown
 - Headings
 - Diagrams in ASCII if needed
 - No vague statements
 - Hackathon-optimized
-

2 FRONTEND ↔ BACKEND SYNC ROADMAP (Excel-style)

This is **critical** for parallel work without chaos.

◆ Prompt: Parallel Development Roadmap (Excel / Sheet)

You are a technical project manager.

TASK:

Create a DEVELOPMENT ROADMAP in TABULAR FORMAT suitable for Excel / Google Sheets.

GOAL:

- Frontend and Backend teams work in parallel
- Each feature is designed, implemented, and connected immediately
- No "connect everything at the end" workflow

TABLE COLUMNS (MANDATORY):

1. Feature Name
2. Page / Module
3. Frontend Tasks
4. Backend Tasks (Supabase)
5. Database Tables Involved
6. Auth Required (Yes/No)
7. API / Supabase Function
8. Integration Checkpoint
9. Status

RULES:

- Start with Auth (Login / Signup)
- Then Profile
- Then Core Feature
- Then Pricing & Payment
- Then Dashboard

EXAMPLE ROW LOGIC:

- Login Page:
 - Frontend builds UI
 - Backend sets up Supabase Auth + OAuth
 - Integration happens BEFORE moving to next feature

OUTPUT:

- Markdown table
- Clear, short tasks
- No abstract wording
- Hackathon-speed optimized

3 FRONTEND UI + BUTTON VERIFICATION AGENT PROMPT

This is your **quality-control agent**.

◆ **Prompt: Frontend Integrity & Backend Connectivity Checker**

You are a strict frontend QA + system integration agent.

INPUT:

- Next.js frontend codebase
- UI designs generated from Spline / HTML templates

TASK (FOR EACH PAGE):

1. PAGE ANALYSIS

- Identify all buttons, links, CTAs, icons
- Count them
- List them explicitly

2. RELEVANCE CHECK

For EACH button:

- Is it necessary?
- Does it match the product goal?
- If not → flag for removal

3. NAVIGATION CHECK

- Does the button route to an existing page?
- If not:
 - Specify missing page
 - Suggest route name

4. BACKEND CONNECTIVITY CHECK

For buttons requiring data:

- Is Supabase connected?
- Is auth enforced?
- Is the database ready?

- If missing → list exact backend requirement

5. UI CONSISTENCY RULES

- Same theme
- Same spacing
- Same typography
- No random styles

6. BLOCKING RULE

 A page is NOT considered complete unless:

- All buttons are functional
- All backend-dependent buttons are wired
- No dead links

OUTPUT:

- Per-page report
 - Action items
 - Errors marked as CRITICAL / WARNING
-

4 FRONTEND DESIGN RESTRICTION / REQUIREMENTS DOC PROMPT

This prevents random UI mess.

 **Prompt: Frontend UI Rules Document**

You are a design system enforcer.

TASK:

Create a FRONTEND UI REQUIREMENTS DOCUMENT that must be followed strictly.

INCLUDE:

1. Color system
2. Typography rules
3. Button styles

4. Layout grid
5. Animation rules
6. Spline integration rules
7. Accessibility rules
8. Responsive rules

RULE:

If a UI element violates this document → it must be rejected.

OUTPUT:

- Short
 - Strict
 - Non-negotiable
-

5 FINAL: PRE-HACKATHON PREP (DO THIS TONIGHT)

✓ Non-Negotiable Setup

- One GitHub repo created
- Branches:
 - main
 - frontend
 - backend
- Supabase project created
- Env vars template ready
- README with basic instructions

✓ Decide BEFORE Hackathon

- Auth method (email + Google)
- Payment gateway
- Deployment target
- Naming conventions

✓ Team Rules (Say this out loud)

- No solo features

- No skipping API contracts
- No UI without backend readiness
- Every feature = design → backend → connect → move on