

## **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