**✅ Joscripta: Master Plan & Roadmap**

**🎯 Goal:**

Build the world’s **simplest, smartest, and most accessible prescription creation tool** with real-time drug safety checks — usable by any healthcare provider, anywhere.

**⚙️ 1. PRODUCT MODULE BREAKDOWN**

**A. 🏠 Home / Quick Start**

* "Start New Prescription" button
* One-liner value prop: *“Create, check, and print safe prescriptions in seconds.”*
* Option to sign in or continue as guest

**B. 🧍 Patient Info Module**

* Name, Age, Gender
* Optional fields: Weight, Allergies, Diagnosis
* Save for future (optional, post-MVP)

**C. 💊 Drug Entry Module**

* Autocomplete drug name (search + select)
* Add dosage, frequency, route, duration
* Multiple drugs allowed
* Each entry triggers interaction scan

**D. 🚨 Interaction Checker Module**

* Visual flags: Red (Danger), Yellow (Caution), Green (Safe)
* List of potential conflicts
* Actionable note: e.g., *“Avoid combining Drug A and B due to XYZ risk.”*
* Toggle: “Skip interaction check” (for offline mode)

**E. 📄 Prescription Generator Module**

* Clean, printable PDF
* Clinic/doctor info header
* Patient + Drug info
* Footer: instructions, warnings, timestamp
* Auto layout (mobile/tablet ready)

**F. ⚙️ Settings / Preferences Module**

* Clinic logo upload
* Doctor name, NPI, contact, signature upload
* Default instructions/templates

**G. 📂 History (Optional v2)**

* View past prescriptions
* Quick copy/edit
* Export to CSV or JSON

**🛠️ 2. TECH STACK STRATEGY**

| **Layer** | **Tools** |
| --- | --- |
| Frontend | **Next.js**, TailwindCSS, shadcn/ui |
| PDF Generator | **pdfmake** or @react-pdf/renderer |
| Backend | **Node.js + Express** |
| Database | **SQLite (local dev)** → Firebase (scale) |
| Drug Data API | **RxNorm**, **DrugBank**, or free sources |
| Hosting | Vercel (frontend), Render/Railway (API) |
| Auth (Optional) | Clerk/Auth0/Supabase (for clinics) |

**🔁 3. USER JOURNEY (MVP)**

1. **Doctor opens app**
2. Clicks **“Start New Rx”**
3. Enters **patient info**
4. Searches **drug(s)** + details
5. App **checks interactions**
6. Clicks **“Generate PDF”**
7. Prints / shares Rx

All without login. Optional login enables saving.

**🔍 4. COMPETITIVE ADVANTAGE**

| **Problem Today** | **RxBuilder Fix** |
| --- | --- |
| EMRs too complex or expensive | Free, focused tool |
| No smart Rx printouts | Beautiful PDF + safety layer |
| Doctors Google for interaction checks | Built-in safety alerts |
| Friction in adoption | No login needed; works from browser/mobile |

**🚀 5. MVP LAUNCH STRATEGY**

| **Phase** | **Deliverable** | **Timeline** |
| --- | --- | --- |
| 🧠 Plan | Finalize features, data sources | Week 1 |
| ✏️ Design | Wireframes + UX flows (mobile/tablet first) | Week 2 |
| ⚙️ Build | Frontend + PDF logic + Rx API integration (v1) | Weeks 3-6 |
| 🔍 Test | Beta with 2–3 clinics/doctors | Week 7 |
| 🚀 Launch | Public beta, simple landing page, feedback system | Week 8 |

**📈 6. FUTURE PHASES**

**📦 v2 – Cloud Sync + Patient History**

* Save previous prescriptions
* Search patients
* Analytics dashboard for providers

**🗣️ v3 – Voice-to-Prescription (Dictation)**

* Doctors dictate → parsed to Rx format
* Auto punctuation and layout
* Medical NLP engine (lightweight)

**🧠 v4 – AI Suggestions**

* Auto-recommend standard dosage
* Alert on missing info
* Learn from past choices

**📣 7. BRAND & VIBE**

* **Name**: RxBuilder (Simple, professional)
* **Tone**: Fast. Clear. Trustworthy.
* **Visuals**: Light theme, medical blue/green, mobile-first
* **Tagline**: “Prescribe smarter. Faster.”

**🧪 8. VALIDATION PLAN**

* Reddit AMA with doctors/residents
* Cold email 10 solo practices
* Talk to 1 local pharmacy
* Ask 3 clinicians: “Would you use this? Pay $5/month for saved history?”

**🔐 9. LEGAL + SECURITY CHECKLIST**

* Add disclaimer: “Not for use in the U.S. without appropriate license”
* HIPAA-lite practices (no PII stored unless explicitly saved)
* Avoid sending data to third parties (self-host interaction checks)