

MVP Pipeline - Hackathon-Ready

1. Ideation & Project Setup Tab

Simple prompt input box: Describe your app idea

AI (e.g., GPT-4 or Claude) turns it into:

- User stories
- Technical specs
- Sprint backlog
- Wireframe image (optional with DALL·E or Sora)

API:

- OpenAI API (Chat + Image)
- Optional: Whimsical API (for UI flow diagrams)

2. Monaco-powered Code Editor Tab

- Monaco embedded editor
- AI autocompletion (basic code agent support)
- Real-time collaboration (Firepad or Yjs)

API:

- Monaco Editor
- OpenAI Codex / Deepseek API
- Yjs / Firepad (for collab)

3. Testing Tab

- Agent generates & executes:
- Unit + integration test stubs
- Highlight pass/fail
- Suggest fix if broken

API:

- Jest or Pytest for test runner
- OpenAI GPT (Test writing & debugging)

4. Git & Versioning Tab

- Create branch, commit, PR UI
- Git diff visualizer
- Agent suggests commit messages

API:

- isomorphic-git (JS Git client)
- OpenAI for commit message generation

5. Build & Config Tab

- Visual .env & config editor
- Auto Dockerfile generation

MVP Pipeline - Hackathon-Ready

- Dependency auto-management UI

API:

- Docker Engine API
- OpenAI (for Dockerfile/codegen)
- npm API / PyPI API (package lookup)

6. Deploy Tab

- One-click deploy to Railway / Render
- Show logs, preview links, rollbacks
- Simple deployment history view

API:

- Railway API or Render API
- Vercel API (alt)
- OpenAI for explaining deployment plans

7. Domains Tab

- Connect domain (input box + AI)
- DNS auto-generator
- SSL status check

API:

- Namecheap / GoDaddy API (optional)
- Lets Encrypt API
- OpenAI (for domain/DNS debugging)

8. Observability Tab

- Show logs (stdout/stderr)
- Auto error summarizer
- Performance chart (mocked Lighthouse/Core Web Vitals)

API:

- Logtail API or simulated backend logs
- OpenAI for summarizing
- Lighthouse CI API (optional)

9. Collaboration Tab

- Inline comments
- Chat (per file or task)
- Task assignment dropdown

API:

- Socket.IO or Pusher (live updates)
- OpenAI for summarizing or tagging tasks

MVP Pipeline - Hackathon-Ready

10. Agents Console Tab

- Show all agents (task queue)
- Trigger agent manually
- Show memory/scratchpad

API:

- LangChain, AutoGen, or custom agent orchestration
- Redis (for task/memory queue)

11. Settings Tab

- User, workspace, theme switch
- API key manager
- Plugin manager (mocked)

API:

- Auth0 / Supabase for auth
- LocalStorage or DB backend
- Stripe API (if monetization mockup)

TOTAL APIs Used (Summary)

Use Case API

AI Gen (code, test, story, PR) OpenAI GPT-4 / Claude / DeepSeek

Real-Time Collab Firepad / Yjs

Git Ops isomorphic-git

Deployment Railway / Render / Vercel

Observability Logtail / Lighthouse CI

Domain Lets Encrypt / DNS Tools

Auth Auth0 / Supabase

Memory & Queue Redis / LangChain

Payments (Optional) Stripe

UI Toolkit Monaco Editor / React / Tailwind

Bonus Tips to Win

- UI polish make it stunning, sleek (use Tailwind + cards + icons)
- Demo script walk from idea code test deploy domain live
- Agent magic make one thing fully automated
- GIFs or animations show real-time logs or agent work