

Project Proposal: SnapFix AI

Concept: A lightweight browser extension and embeddable web widget that allows users to capture a bug via screenshot or video. It automatically attaches technical metadata (console logs, network requests, stack traces) and uses an LLM to "diagnose" the issue, providing a human-readable summary for the user and a technical fix suggestion for the developer.

Target Audience: * **QA Teams:** To speed up regression testing.

Product Managers: To communicate bugs without technical friction.

Customer Support: To get "dev-ready" reports from non-tech clients.

Where to Improve (The Competitive Edge)

Existing tools like *Jam.dev* and *Marker.io* are excellent, but they leave gaps we can exploit:

AI Auto-Diagnosis: Most tools just "capture" data. SnapFix will *analyze* it. It should tell the developer: *"The API returned a 401 because the Auth header was missing on the /settings endpoint."*

Non-Tech Simplification: Provide a "Basic Mode" for clients that hides the scary logs and a "Dev Mode" that shows everything.

Auto-Reproduction Scripts: Generate a Playwright or Cypress script from the captured user session so the developer can run the bug locally with one click.

Privacy Guard: Use local AI to automatically blur sensitive data (emails, credit card numbers) in screenshots before they hit the cloud.

What We Need to Do (Roadmap)

Phase 1: The Capture Engine. Build the ability to snap screenshots and record segments of the DOM/Screen using the `getDisplayMedia` API.

Phase 2: Technical Hooking. Create a "listener" that captures `console.error` and `window.fetch` requests without slowing down the host site.

Phase 3: The AI Brain. Integrate an LLM (e.g., Gemini 1.5 Flash or Claude 3.5 Sonnet) to parse the captured logs and generate the "Diagnosis."

Phase 4: Integration Hub. Build two-way sync with Jira, Linear, and GitHub so a "Snap" becomes an "Issue" instantly.

Marketing Plan

The "Freemium" Hook: Offer a free browser extension for individuals. When they share a bug link with their team, the team sees the "SnapFix" brand.

Documentation-Led Growth (DLG): Create "How to fix [Common Error]" articles that lead users to the tool.

Generative Engine Optimization (GEO): Ensure our technical docs are indexed by AI search engines (Perplexity, SearchGPT) so when developers ask "How to capture console logs for a bug report," SnapFix is cited.

Product Hunt & Reddit: Launch on *Product Hunt* and engage in r/webdev and r/reactjs by offering the tool to solve "reproduction hell."

Where to Publish

Browser Stores: Chrome Web Store, Firefox Add-ons, and Edge Add-ons.

Developer Marketplaces: GitHub Marketplace and Vercel Integrations.

AI Directories: Future-proof lists like *There's an AI for That*, *OpenAI GPT Store*, and *AWS Marketplace*.

CMS Plugins: WordPress Plugin Directory and Shopify App Store (to capture the e-commerce support market).

What We Need to Build This (Tech Stack)

Frontend (The Widget/Extension)

Framework: React or Svelte (for a small bundle size).

Capture API: `MediaDevices.getDisplayMedia()` for video; `html2canvas` for DOM screenshots.

Styling: Tailwind CSS (Shadow DOM to prevent CSS leaking into the host site).

Backend (The Brain)

Serverless: Vercel or AWS Lambda for handling report uploads.

Database: Supabase (PostgreSQL) for storing reports and user data.

AI Integration: LangChain to orchestrate the "Log-to-Diagnosis" pipeline.

Storage: AWS S3 or Cloudflare R2 for storing heavy video/image files.

Security

PII Masking: A library like Presidio to detect and scrub sensitive info from logs before they are sent to the LLM.

Every Other Thing You Need to Know

Retention Policy: Enterprise clients will demand that bug reports are deleted after 30–90 days for compliance (GDPR/SOC2).

Performance: The widget must be "zero-latency." If it slows down the user's site, they will uninstall it immediately. Use asynchronous loading.

Monetization: * **Pro:** Unlimited reports and AI diagnosis (\$15/mo).

Team: Integrations with Jira/Linear and shared workspaces (\$50/mo).