# Case Study: Sample Project (Example Only)

## Overview

- Project Name: Sample Project
- Date Completed: October 2025
- Client/Organization: Demo Corp
- Your Role: Full Stack Developer
- Project Type: CLI Tool Team Members:
- Solo project

## Project Goals

Create a CLI tool to automate the case study writing process for devs and freelancers.

Why these goals mattered: Manual case studies waste valuable project time; a tool encourages better documentation.

## Challenge / Problem Statement

Main Challenge: Previous case study generators were all web-based or lacked customization.

Tangible Issues: Time wasted, inconsistent output, slow onboarding for juniors.

Problem Type: Technical, UX

Constraints: Cross-platform, no internet needed, markdown output

## Solution / Approach

Proposed Solution: Build a Node.js CLI that generates customizable markdown files from user input.

Alternative Solutions Considered: Text templates, paid SaaS products (cost, ownership issues)

Requirements Gathering: Developer feedback

Design Process: Flowchart and markdown mockups

### Technologies Used

- Node.js
- Inquirer
- FS, Chalk

Why These Technologies: CLI-first, simple dependencies for cross-platform and fast setup

# Design & User Experience

UX/UI Decisions: All prompts in plain language, skip logic for sections

Accessibility: No visual/GUI requirements, works in any OS terminal

Design Tools: Draw.io, markdown

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# Implementation

Major Milestones:

- Prompt structure
- Markdown export
- Preview workflow

Architecture: Single file, modular function for future extensibility

Critical Features: Preview before save, skip questions, robust validation

Blockers & Surprises: None, steady dev pace

Testing & Validation: Manual runs, peer review

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# Deployment & DevOps

Hosting Platform: GitHub

CI/CD Pipeline: Manual push

Monitoring & Analytics: N/A

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# Results & Impact

Measurable Outcomes: Completed >10 portfolio case studies, shared with new contributors

Business Impact: Sharable asset for devs/freelancers

Before/After: Unorganized text → repeatable, easy case studies

User Feedback: "This made writing about my projects actually fun."

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# Visual Showcase

- Screenshot of CLI in action
- Example markdown file output

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# Key Learnings & Reflections

What I Learned: Great documentation tools need to fit developer flow

What I'd Do Differently: More export formats

Skills Gained: Node CLI, community feedback

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# Future Enhancements

Planned Features:

- Exports to HTML, PDF
- Screenshots/images
- Batch case study mode

Scalability Considerations: Plugin/extension support

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# Testimonials

> "Much needed for bootcamp devs."

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# Links & Media

- GitHub Repository: https://github.com/OutsideofemiT/Case-Study-Gen
- More examples coming soon

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