AI GENERATED - CROOKED SHUTTER TREEHOUSE -CASE STUDY STRUCTURE

Title:

Designing a 285 sq. ft. Immersive Stay: How I Built Crooked Shutter Treehouse Like a Product

Time Visual Portfolio

Include:

- Experience Map diagram Mind mapping treehouse idea using FreeMind
- Floor plan wireframes / Blender 3D renders YouTube 3D model created using Blender
- YouTube playlist of all everything from inspiration, to designing and building the CST
- Website homepage <u>CrookedShutterTreehouse.com</u>
- Welcome Book
- Airbnb Listing view when it was active <u>Airbnb Listing View</u>
- Guestbook guotes or review highlights 366 5 Star Reviews

1. Introduction

General Statement: This Case Study Structure is the culmination of all the documentation I have created regarding the design, development and management of the Crooked Shutter Treehouse.

Project Summary

- Role: Architect, Designer, Interior Designer, Builder (General Contractor), Operations Manager, Host
- **Duration**: 6+ months from design to launch
- Tools: Blender, Airtable, Adobe CC, WordPress, Airbnb tools
- Team: Solo build, partnered with guests + the environment

Purpose

 How do you create a delightful, brand-aligned, scalable experience within a confined physical footprint, without sacrificing personality or comfort?

3. <a> Research & Opportunity Framing

Challenge:

"What if I could design a stay that feels like an adventure, a retreat, and a memory-maker—all in one compact, analog-yet-digital experience where people feel they have to return?"

Research Insights:

- Reviewed Airbnb guests and hosts feedback from other unique Airbnb stays
- Observed common pain points: unclear check-in, poor flow, generic spaces
- Mapped emotional states during travel: Excitement → Uncertainty → Comfort → Memory

4. Strategy & Experience Mapping

Design Philosophy:

• Every touchpoint is a brand moment—from the gravel crunch in the driveway to the way the lamp casts a shadow.

Experience Map (You'll Want a Diagram Here):

- Mind mapping: Use FreeMind to map out the different business channels and experience perspectives for the success of the listing - Mind mapping treehouse idea using FreeMind
- 2. Booking: Airbnb listing copy, photos, and tone match the stay's emotional promise
- Pre-arrival: Custom welcome email with link to a digital <u>Welcome Book</u> (PDF or FlipHTML5)
- 4. **Arrival**: Simple navigation, intuitive parking, self-check-in flow
- 5. **Stay**: Interior flow optimized for small space, custom furniture design, multisensory inputs (wood smell, dimmable lighting, silence)
- 6. **Departure**: Clear closing loop, gratitude text, follow-up request
- Memory Loop: Guests share on Instagram / reviews. Designed "photo moments" in exterior

5. X Prototyping & Building the System

UX Systems Created:

- Physical Design: Modeled treehouse in 3D, A/B tested layouts, mocked user movements - Floor plan wireframes / Blender 3D renders - YouTube 3D model created using Blender
- YouTube playlist of all everything from inspiration, to designing and building the CST
- Operational UX: Built a "service blueprint" to reduce guest confusion and host time
- Content System: Copy tone guidelines, story-driven visual language
- Feedback Loop: Used Airbnb guest data to iterate space usage & site flow

6. 🔆 Key Design Solutions

- Custom Pallet-Wood Furniture: Doubled as design elements and usability enhancers
- Outdoor Shower Experience: Designed to feel adventurous but comfortable—even in winter
- Lighting System: Layered, dimmable lighting for emotional variation
- Website Storytelling: Created <u>CrookedShutterTreehouse.com</u> to extend the brand beyond Airbnb

7. Results

Metric Outcome

Guest Rating (Airbnb) 5.0 avg. from 366 reviews

Occupancy Rate ~85% in Year 1

Conversion Boost +12% after onboarding redesign

Return Guests Multiple 3-time returning guests

Featured In Lake Norman Mag, Escape Blogs, LKN

Podcast

7. What I'd Do Next

- Integrate Digital Check-in UX into Airbnb Host Tools
- Create a "Mini UX Kit" for micro-stay hosts (small footprint)
- Run A/B tests on emotion-driven copy vs. standard listings
- Connect booking data to design system iterations