Project Scope Document: RankRocket Google Site Builder

# 1. Project Objective

To create a scalable, AI-powered system that reads a client’s XML sitemap and replicates their website’s structure and content into automatically generated Google Sites. The solution will bypass the limitations of Google's official APIs using a Drive-based site duplication approach, combined with AI-generated Docs, Slides, and Sheets to simulate and embed content within each Google Site.

# 2. Key Limitations of Google Sites API

- ❌ Cannot programmatically create a new Google Site from scratch.

- ❌ Cannot programmatically add or remove pages from a site.

- ❌ Cannot programmatically edit site navigation or layout.

- ✅ Can duplicate an existing Google Site using Google Drive API.

- ✅ Can embed Google Docs, Slides, and Sheets into a Site.

- ✅ Can create Docs/Slides/Sheets dynamically via Google APIs.

# 3. Strategic Workaround Plan

- Maintain a master Google Site template.

- Use Google Drive API to duplicate the template for each site instance.

- Automatically generate AI content (text + image) based on sitemap structure.

- For each page in the sitemap:

- Generate a Google Doc to represent that page’s content.

- Optionally generate a hidden sub-page Doc (for supporting content, LSI, etc).

- Embed these documents within the duplicated site.

- Maintain naming, folder structure, and share links per site.

# 4. Phase 1 Development Plan with Estimates

• Parse XML Sitemap and extract URL structure — Est. 2 hrs + QA buffer ≈ 2.66 hrs

• Extract page slugs and titles; prepare structure map — Est. 1 hrs + QA buffer ≈ 1.33 hrs

• Authenticate via OAuth2 and validate token setup — Est. 1 hrs + QA buffer ≈ 1.33 hrs

• Clone base Google Site template via Drive API — Est. 2 hrs + QA buffer ≈ 2.66 hrs

• Create Google Docs per page with AI-generated content — Est. 3 hrs + QA buffer ≈ 3.99 hrs

• Generate DALL·E images (via API) per page topic and insert into Docs — Est. 2 hrs + QA buffer ≈ 2.66 hrs

• Organize Docs and assets into Drive folders per site — Est. 1 hrs + QA buffer ≈ 1.33 hrs

• Embed Docs into the cloned site manually or via reusable embed framework — Est. 2 hrs + QA buffer ≈ 2.66 hrs

• Log and store each created site ID and public URL — Est. 1 hrs + QA buffer ≈ 1.33 hrs

🧠 Total Estimated Time: ≈ 19.95 hours (including QA)

# 5. Optional Enhancements

- Admin UI to manage template switching, status monitoring, and batch job control (4–6 hrs).

- Google Ads integration after API token is fully approved (3 hrs).

- SEO toolkit: LSI keyword injection, geo-content generation, structured data markup (5 hrs).

# 6. Project Benefits

- Mass generation of branded Google Sites from real website blueprints.

- Fully automated, scalable, and cloud-based.

- Human-quality content generation powered by GPT & DALL·E.

- No third-party software dependency. Skippy-powered all the way.