Elevate Labs Projects Completion Report

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Preparation Date: 21-07-2025

GitHub Repository: https://github.com/Vasantjv-2005/elevate-labs-projects.git

1. Introduction

I successfully finished two projects that integrate design, performance, and usability as part of the Elevate Labs program:

Developer Portfolio Generator (Website Markdown)

The Progressive Web App for Habit Tracking (PWA)

The purpose of these projects was to improve my knowledge of user-centric UI/UX design, React-based workflows, and the deployment of practical applications using contemporary web technologies.

2. Abstract

Developer Portfolio Generator: The **Developer Portfolio Generator** is a powerful and dynamic web application that allows users to effortlessly convert **Markdown-based content** into fully functional, visually appealing portfolio websites. Built with modern frameworks, the app supports **real-time live preview** of Markdown as HTML, enabling users to see changes instantly as they type. The platform offers **multiple professionally designed themes**—including Modern, Dark, Minimal, and Colorful—allowing complete visual customization with just a click. It features **responsive design** optimized for all devices, ensuring a seamless experience across desktop, tablet, and mobile screens. Users can download their portfolio as an HTML file deploy it GitHub Pages or Vercel I have used vercel for the deployment you can see the deployment links in the Github repo link Developer Portfolio Generator is an ideal tool for developers, designers, and freelancers looking to create and maintain a professional online presence with minimal effort.

3. <u>Tools & Technologies Used</u>

Frameworks: React 18, Next.js 15

Making of the UI : V0.dev

Languages: TypeScript, JavaScript, HTML, CSS

Styling: Tailwind CSS , CSS

Markdown Rendering: remark, remark-gfm

Icons: Lucide React

Deployment: Vercel

Additional: PWA support

4. <u>Development Process</u>

Developer Portfolio Generator

What: Convert the provided markdown into a responsive personal portfolio.

Steps:
Initialized project with Next. js + TypeScript setup
Created a Markdown parser with ´remark` and ´remark-html´
Layout made online with preview (Markdown => HTML)
Created 4 themes (Modern, Dark, Minimal, Colorful) using Tailwind
Download/Export feature added to HTML.(you can download the HTML file
Deployed the app using Vercel : https://elevate-labs-project.vercel.app/ ,

5. <u>Conclusion</u>

In this project, I was able to research into how the design and the systems and the developer tools can be merged together to make the workflow much efficient.
Doing this allowed me to do a lot of work on user experience, accessibility, and customisable UI components.
I learned how to make code faster and more responsive on all devices.
Dealing with themes and layout flexibility taught me a thing or two about scalable front-end architecture.
On the whole the experience is indicative of my progression in shipping real-world, user tailored web-apps.