

Hello! I need help with my personal portfolio and blog website. It is built using the static site generator Eleventy. Here is a complete overview of the project structure, systems, and configuration.

1. Goal

The goal is to create a personal portfolio website for a Data Analyst named Farman Khan. The site will feature a homepage, portfolio, blog, about page, and contact page. It needs to be dynamic, pulling content from Markdown files, and should be fully responsive with a light/dark theme.

2. File Structure

The project is organized as follows:

- `_includes/`: Contains reusable templates.
 - `layouts/base.html`: The master layout file for all pages.
 - `partials/header.html`: The site's navigation header.
 - `partials/footer.html`: The site's footer.
- `pages/`: The main directory for all site content.
 - `home.html`: The homepage.
 - `portfolio.html`: The main listing page for all portfolio projects.
 - `blog.html`: The main listing page for all blog posts.
 - `about.html`, `contact.html`, `404.md`: Static content pages.
- `pages/posts/`: A dedicated folder where all blog post `.md` files will be stored.
- `pages/projects/`: A dedicated folder where all project `.md` files will be stored.
- `css/style.css`: The single stylesheet for the entire site.
- `img/`: A folder for all images, organized into subfolders like `posts/` and `projects/`.
- `.eleventy.js`: The main Eleventy configuration file.
- `package.json`: Manages Node.js dependencies.

3. Core Systems & Logic

- **Templating**: The site uses the **Nunjucks** templating language.
- **Collections**: Eleventy automatically creates two main collections:
 1. `collections.posts`: From all `.md` files inside `pages/posts/`.
 2. `collections.projects`: From all `.md` files inside `pages/projects/`.
- **Dynamic Listing Pages**:
 - `portfolio.html` and `blog.html` loop through their respective collections (`collections.projects` and `collections.posts`) to generate a grid of clickable cards.
 - `home.html` displays the **two most recent** items from each collection by using a custom limit filter: `collections.projects | limit(2)`.
- **Error Handling**: The loops are wrapped in `{% if collections.projects and collections.projects.length %}` blocks to prevent the site from crashing if the collections are empty.

4. Styling and Features

- **CSS:** The site uses a single style.css file with CSS variables for easy theming (:root for light theme, .dark for dark theme). It is fully responsive using a media query for screens under 768px.
- **JavaScript:** All client-side JavaScript is located in a <script> tag in base.html and handles:
 - A light/dark theme toggle that saves the user's preference in localStorage.
 - A responsive mobile "hamburger" menu.
 - A "scroll-to-top" button.

5. Configuration (.eleventy.js)

The .eleventy.js file is configured to:

- Copy the css, js, and img directories to the final build folder (_site).
- Define a custom limit filter to slice arrays, which is essential for the homepage. The filter code is:
eleventyConfig.addFilter("limit", (arr, limit) => (arr || []).slice(0, limit));

6. Content Structure (Markdown Front Matter)

All dynamic content is driven by front matter in the .md files. Each file must have the following structure:

- **For a project (pages/projects/some-project.md):**

```
---  
layout: layouts/base.html  
title: Name of the Project  
date: YYYY-MM-DD  
summary: "A short, one-sentence summary for the card view."  
tags: ["Tool 1", "Tool 2"]  
featuredImage: /img/projects/project-image.jpg  
featuredImageAlt: "A descriptive alt text for the image."  
---
```

Full project case study content in Markdown...

- **For a post (pages/posts/some-post.md):**

```
---  
layout: layouts/base.html  
title: Title of the Blog Post  
date: YYYY-MM-DD  
excerpt: "A short excerpt for the card view."  
featuredImage: /img/posts/post-image.jpg  
featuredImageAlt: "A descriptive alt text for the image."
```

Full blog post content in Markdown...

My task is to continue building and refining this website based on the established structure.