



**Islamic University of Lebanon**  
**(Baalbek Campus)**

**Department of Computer and Communications Engineering**

**Client-Side Scripting**

**Documentation for Personal Blog Project**

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# Abstract

This documentation outlines the design and implementation of a personal blog website comprising five interconnected pages: Home, Today, Yesterday, Last Week, and Archives. The project leverages modern HTML5, CSS3 (including custom properties and animations), and JavaScript for interactivity. Key features include a responsive layout, accordion-style content sections, themed navigation, and dynamic styling. The code emphasizes reusability, consistency, and user experience through structured components and modular CSS.

## Keywords

Personal Blog, HTML5, CSS3, JavaScript, Responsive Design, Accordion, Flexbox, CSS Animations.

## Introduction

The blog serves as a digital journal documenting daily activities and reflections. It is designed to be visually engaging while maintaining simplicity and usability. Key technical aspects include:

- Consistent navigation and styling across all pages.
- Use of CSS variables for theme management.
- Responsive layouts using Flexbox.
- Dynamic elements like collapsible accordions (Archives) and hover effects.
- Cross-page linking and semantic HTML5 structure.

## Structural Overview

The blog consists of five pages with shared components:

- **index.html**: Homepage with "Latest Posts" displayed as cards.
- **today.html/yesterday.html**: Daily entries in a card-based format.
- **last-week.html**: Timeline layout for older posts.
- **archives.html**: Accordion-style collapsible monthly archives.

## Common Components

- **Header**: Gradient-animated banner with title.
- **Menu**: Navigation sidebar with links.
- **Content Area**: Primary content section (cards/accordions/timeline).

- **Sidebar:** Additional links or highlights (absent in Archives).
- **Footer:** Contact information and copyright notice.

## Implementation Details

### HTML Structure

All pages follow this template:

---

```

1 <div class="header">...</div>
2 <div class="container">
3   <div class="menu">...</div>
4   <div class="content">...</div>
5   <div class="sidebar">...</div> <!-- Excluded in archives.html -->
6 </div>
7 <footer>...</footer>

```

---

### CSS Architecture

Key CSS features include:

- **Theme Variables:** Defined in `:root` for colors and gradients.
- **Responsive Containers:** Flexbox with `flex-wrap` for mobile adaptability.
- **Animations:** Gradient shifts in headers and hover effects.
- **Shadow & Transitions:** Depth effects on cards and smooth interactions.

---

```

:root {
  --primary-color: #FF6B6B;
  --secondary-color: #4ECDC4;
  --accent-color: #FFE66D;
}

```

---

Figure 1: Theme Variables Definition

### JavaScript Functionality

The Archives page uses JavaScript to toggle accordion sections:

---

```

const accordions = document.querySelectorAll('.accordion-header');
accordions.forEach(accordion => {
  accordion.addEventListener('click', () => {
    accordion.parentElement.classList.toggle('active');
  });
});

```

---

Figure 2: Accordion Interaction Script

# Design Analysis

## Color Scheme

- **Primary:** Coral (#FF6B6B) for headers and accents.
- **Secondary:** Teal (#4ECDC4) for borders and highlights.
- **Accent:** Yellow (#FFE66D) for sidebars and links.

## Results

The final implementation achieves:

- Consistent theming across all pages.
- Smooth animations for user engagement.
- Efficient navigation between daily/weekly/archive views.
- Error-free interactivity in accordions (Archives page).

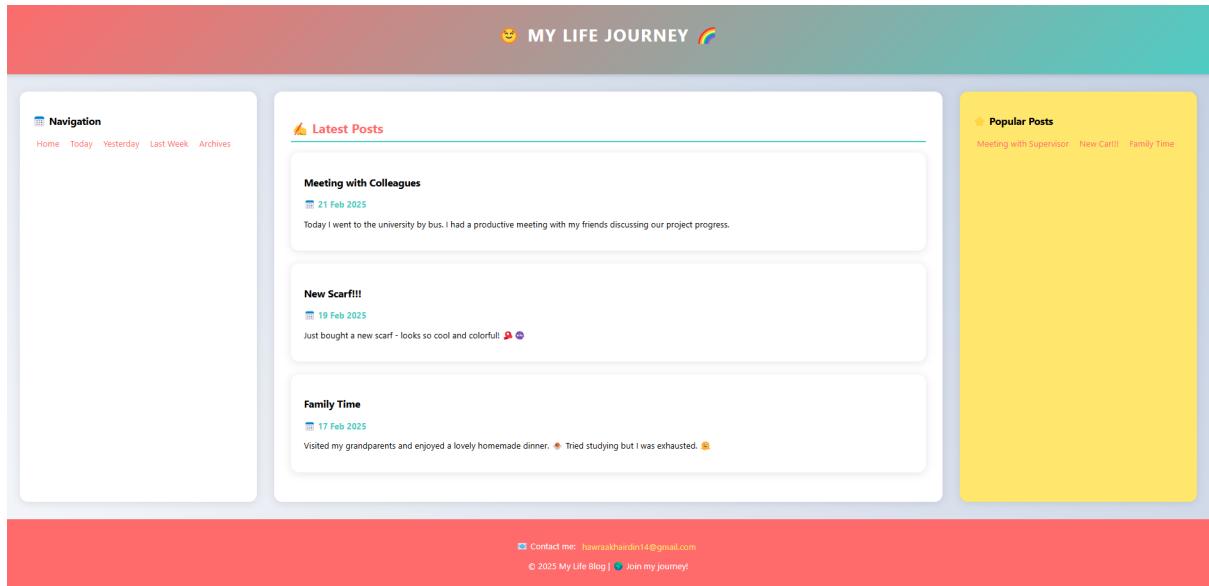


Figure 3: Home Page

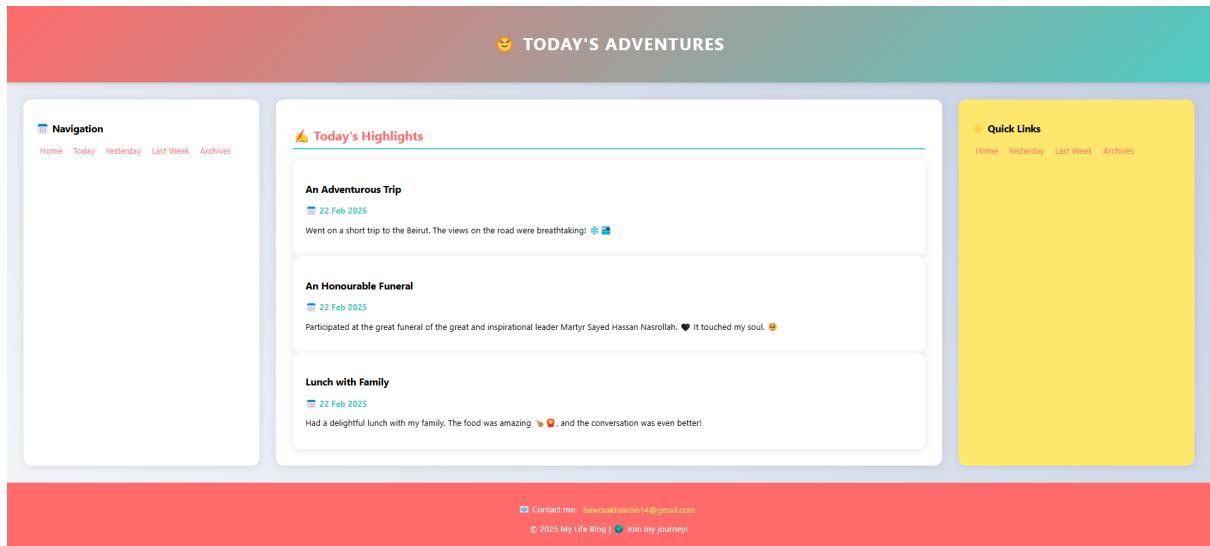


Figure 4: Today Page

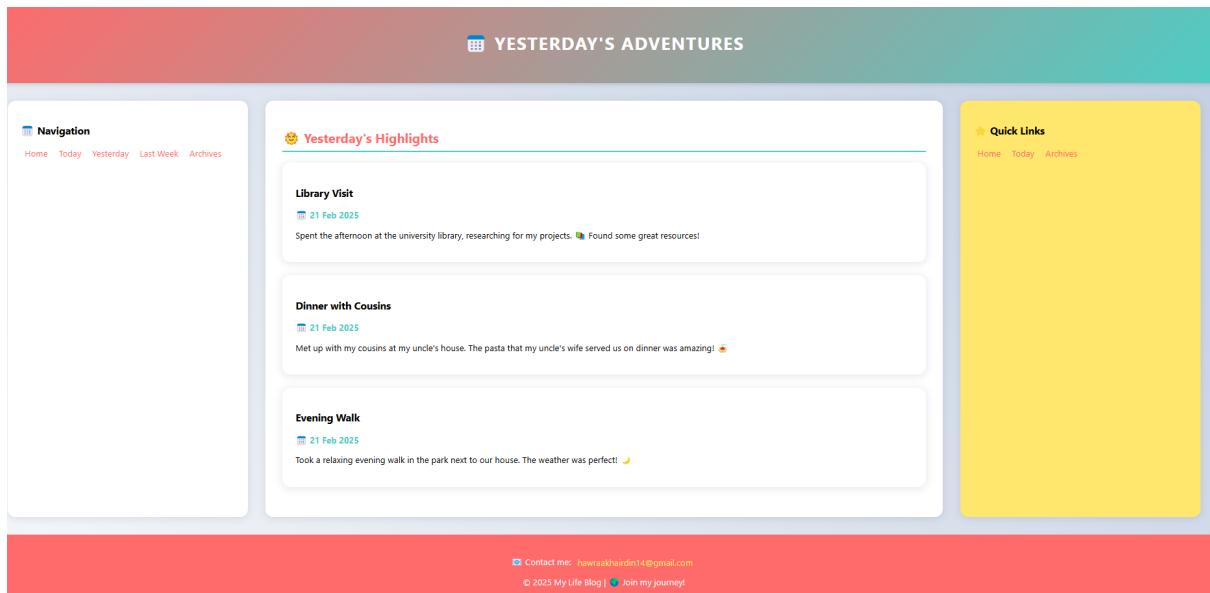


Figure 5: Yesterday Page

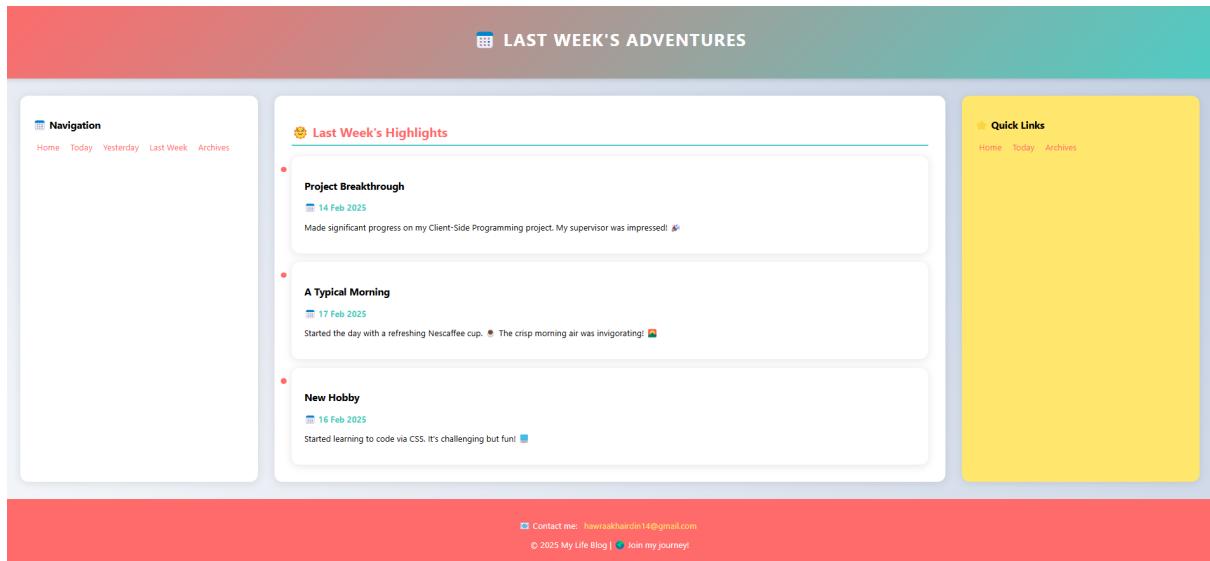


Figure 6: Last-week Page

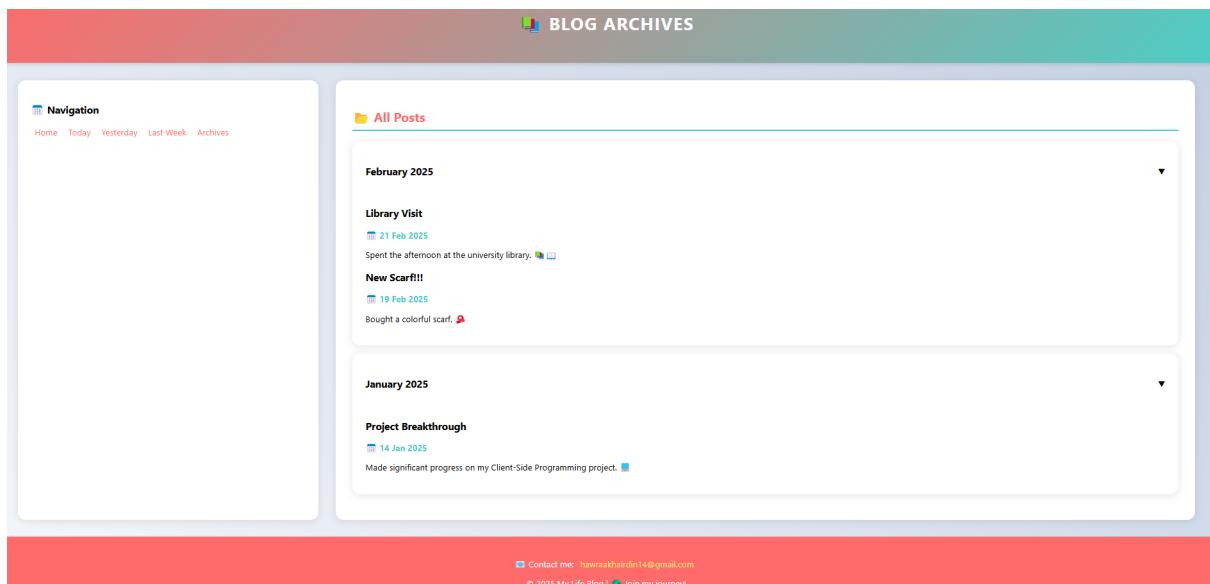


Figure 7: Archive Page

## Resources

- Full code: <https://github.com/Hkhairdin/HTML/tree/main/MyPersonalBlog/>
- CSS Gradient Generator: <https://cssgradient.io/>
- MDN Web Docs: <https://developer.mozilla.org/>