

Documentation for Virtual CV Website

1. HTML Structure

- **Purpose:** Defines the semantic structure and content of the portfolio website.

Key Parts:

- **<header>**

Contains the fixed navigation bar with:

- Logo link (NB Manganyi)
- Navigation links (Home, About, Experience, Skills, Education, Contact)
- Hamburger menu icon for mobile devices (toggles mobile nav)

- **<section class="hero" id="home">**

The landing section that introduces you:

- Greeting headline with your name highlighted
- Short description of yourself
- Call-to-action button linking to Contact section
- Social media icons (LinkedIn, GitHub)
- Profile image with styling

- **<section id="about">**

Your personal profile and core competencies:

- Text description about you
- Visual skill bars showing percentages (Time Management, Communication, Collaboration)

- **<section id="experience">**

Projects timeline:

- List of timeline items showing key projects with title, type, year, and description
- Alternating layout with a vertical center line

- **<section id="skills">**
Technical skills displayed as cards:
 - Each card has an icon, skill name, and description
 - **<section id="education">**
Academic qualifications in cards:
 - Degree and school details with relevant coursework
 - **<section id="contact">**
Contact information and a contact form:
 - Your location, phone, and email with icons
 - Form fields for visitor's name, email, subject, and message
 - Submit button (form submission handled by JS)
 - **<footer>**
Footer with copyright, social icons, and design credit
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2. CSS Styling

- **Purpose:** Provides visual appearance, layout, responsiveness, and animations.

Highlights:

- **Color Theme:** Using CSS variables (--primary-color, --secondary-color, etc.) to keep consistent colors.
- **Global Reset:** Margin and padding set to zero, box-sizing set to border-box for consistent sizing, and a modern sans-serif font family.
- **Navigation Bar:**
 - Fixed position with translucent white background and subtle shadow.
 - Flex layout for logo and navigation links.
 - Navigation links have hover underline animations.
 - Hamburger icon appears only on smaller screens.
- **Hero Section:**
 - Full viewport height with dark gradient background.

- Flex layout to position text and image side-by-side.
 - Smooth fade-in animations on load.
 - Styled CTA button with hover effects.
 - Circular profile picture with border and shadow.
- **About Section:**
 - Split into text and skill bars side-by-side.
 - Skill bars animate width to visually represent skill levels.
- **Projects Timeline:**
 - Vertical line in the center.
 - Items alternate left and right.
 - Each item animates into view on scroll.
 - Small rotated squares connect the timeline content visually.
- **Skills Section:**
 - Grid layout with cards.
 - Cards fade in and lift slightly on hover.
- **Education Section:**
 - Flex layout with icons and content.
 - Items animate into view as the user scrolls.
- **Contact Section:**
 - Dark themed with white text.
 - Two-column layout for contact details and form.
 - Styled input fields and submit button with hover effects.
- **Footer:**
 - Dark background with centered text and social icons.
 - Icon hover color changes.
- **Responsive Design:**

- Navigation switches to mobile-friendly menu with toggle.
 - Sections stack vertically on smaller screens.
 - Text and images resize for readability on small devices.
 - **Animations:**
 - Fade-in from left/right/up effects using keyframes.
 - Triggered on page load and scroll for timeline, skills, education.
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3. JavaScript Functionality

- **Purpose:** Adds interactivity and dynamic behavior to the webpage.

Features:

- **Mobile Navigation Toggle:**
 - Clicking the hamburger icon toggles the .active class on the navigation links container.
 - Changes the hamburger icon from bars (fa-bars) to close (fa-times) and vice versa.
- **Auto Close Mobile Menu:**
 - When a navigation link is clicked, the mobile menu closes automatically.
 - Hamburger icon resets to bars.
- **Scroll-triggered Animations:**
 - On scroll, the script checks position of timeline items, skill cards, and education items.
 - Adds .visible class to elements as they enter the viewport to trigger CSS animations.
- **Smooth Scrolling for Anchor Links:**
 - Intercepts clicks on all <a> tags with hrefs starting with #.
 - Smoothly scrolls to the target section instead of jumping.
- **Header Background Effect on Scroll:**

- Adjusts the header background color and shadow intensity depending on scroll position for a subtle effect.
 - **Contact Form Submission:**
 - Prevents default form submission.
 - Displays a thank-you alert.
 - Resets the form fields.
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Summary

This Virtual CV website is a **modern, interactive, and responsive portfolio** that presents professional information clearly and attractively. The combination of semantic HTML, CSS variables and animations, and vanilla JavaScript delivers a user-friendly experience across devices.

If you want, I can also help you modularize or extend the functionality, or add backend support for the contact form