

Title: Samsung Smart Toothbrush: The Future of Oral Care

Subtitle: Innovation for Every Smile

Abstract:

In the era of smart health solutions, we present a creative and interactive website built to market the **Samsung Smart Toothbrush**, a visionary product redefining oral care. Our goal was to blend cutting-edge technology with compelling web design to create an engaging user experience that highlights the features, benefits, and innovation behind the product.

The website was developed using **HTML, CSS, and JavaScript**, and enhanced with **Three.js** to introduce captivating 3D visuals that bring the product to life. To accelerate development and ensure high-quality content, we utilized AI tools including **ChatGPT, Claude**, and **GitHub Copilot** for ideation, content generation, and code assistance. The result is a sleek, responsive, and visually appealing platform that not only markets the product but also reflects the innovation it promotes.

Work Session Timeline

Total Duration: 3 hours 30 minutes

Time Slot	Activity Description
6:30 PM – 7:00 PM	Planning & Setup: Defined website structure, content sections, and UI layout. Discussed toothbrush features and mapped interaction flow. Used Claude to brainstorm components and organize context.
7:00 PM – 8:00 PM	Development Phase 1: Built HTML structure and applied CSS for basic layout. Integrated Google Fonts for typography and Font Awesome for icons.
8:00 PM – 8:30 PM	3D Integration: Used Three.js to render 3D model elements and animations. Incorporated Lottie for lightweight vector-based animations. Began GSAP-based scroll animations.
8:30 PM – 9:00 PM	Content and Code Assistance: Generated promotional and technical content using ChatGPT (prompt engineering). Implemented code logic with GitHub Copilot assistance for layout responsiveness and animations.
9:00 PM – 9:30 PM	UI Enhancements: Added interactive animations using GSAP , refined styling and transitions, and linked components guided by Claude’s contextual suggestions.
9:30 PM – 10:00 PM	Finalization & Testing: Performed mobile responsiveness checks, cleaned up code, tested animation smoothness, and ensured overall consistency.