Christ (Deemed to be University)

School of Engineering and Technology

Project Report

Project Title: Aura – Unify Your Smart Home

Course Name: UI/UX Design

Group No.: 17

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Date of Submission: 26-Sep-2025

Introduction

The project titled 'Aura – Unify Your Smart Home' focuses on creating a responsive and modern landing page for a smart home hub. The site is designed to present the product in an engaging way, highlight its key features, display user testimonials, and offer a purchase option. It also includes an AI-driven routine generator that produces personalized smart home routines.

Objectives

1. To design and develop a responsive website for a smart home hub.

2. To apply clean design principles using Bootstrap and custom CSS.

3. To add interactivity with JavaScript and jQuery.

4. To connect with Google’s Gemini API for routine generation.

5. To showcase features, testimonials, and pricing effectively.

Technologies Used

• HTML5 for structure

• CSS3 with custom styles

• Bootstrap 5.3.2 for responsive layout

• JavaScript (ES6) and jQuery for interactivity

• Google Fonts (Inter) for typography

• Google Gemini API for AI-generated routines

System Design & Architecture

The site is organized into sections:

- Navigation Bar: Sticky top with smooth scrolling.

- Hero Section: Main tagline, product description, and call-to-action buttons.

- Features Section: Highlights key product benefits.

- Routine Generator: Allows users to enter devices and scenarios, then generates routines through Gemini API.

- Testimonials: Displays customer feedback.

- Final CTA: Pricing and order option.

- Footer: Links for policy, terms, and contact.

Code Explanation

HTML provides the structure, CSS manages layout and styling, while Bootstrap offers responsive components. JavaScript controls user interaction, smooth scrolling, and routine generator logic. Bootstrap modals are used for error handling when inputs are missing. The Gemini API is accessed using the Fetch API, and the response is displayed inside styled containers.

Key Features

• Responsive design for multiple devices

• Modern UI/UX with Bootstrap and custom CSS

• AI-powered routine generator

• Customer testimonials for credibility

• Strong call-to-actions to improve conversions

Challenges Faced

• Designing a modern interface within time limits

• Handling errors from API calls gracefully

• Ensuring mobile responsiveness across devices

Conclusion

The project combines web development techniques with AI-powered interactivity. It results in a polished, professional landing page suitable for a commercial product. The project helped improve practical skills in HTML, CSS, Bootstrap, JavaScript, and API integration. Future improvements could include backend support for user accounts, saving routines, and enhanced accessibility.

References

1. Bootstrap Documentation – https://getbootstrap.com/

2. Google Fonts (Inter) – https://fonts.google.com/

3. Google Generative Language API – https://ai.google.dev/

4. MDN Web Docs for HTML, CSS, and JavaScript