DAY-2

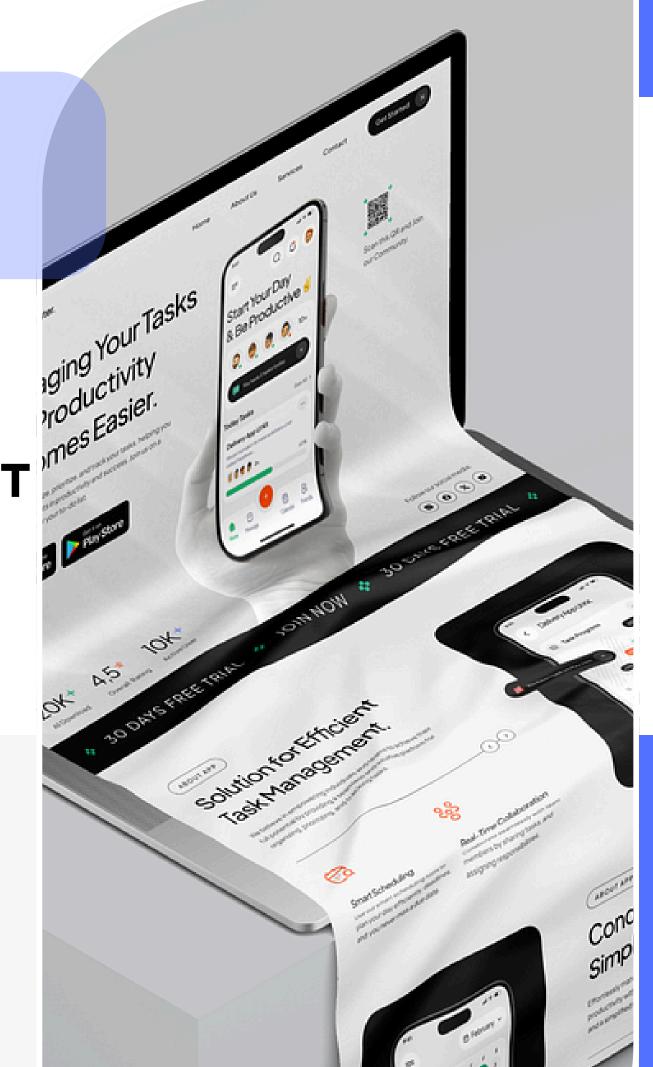
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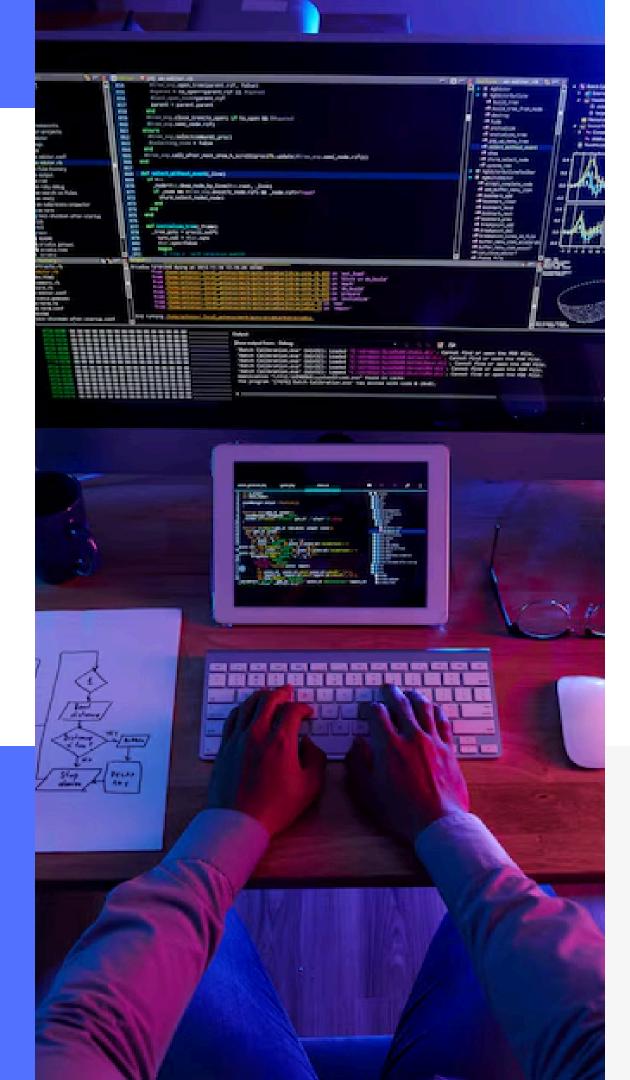
INTERACTIVE WEB DEVELOPMENT + CHATBOT WITH GEMINIAI API

December 2024

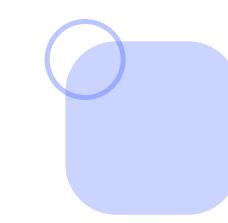


<u>https://gdg.community.dev/gdg-on-campus-nagesh-karajgi-orchid-college-of-engineering-technology-solapur-india/</u>





DAY-2 CONTENT



1. Recap of Day 1

- HTML Basics: Structure of a webpage (headings, paragraphs, links, etc.).
- CSS Basics: Adding styles to structure (colors, margins, padding).
- JavaScript Basics: Making webpages interactive (buttons, clicks, alerts).
- Goal of Day 1: Build a static webpage and add interactivity using JavaScript.
- 2. Advanced JavaScript Points
- 3. GEMINIAI API?
- 4. Hands On Chatbot Project
- 5. Conclusion of the Workshop
- 6. Thank You

Advanced JavaScript Points

1. Functions in JavaScript:

- Definition: Blocks of code designed to perform a specific task.
- Syntax: function myFunction() { // code }
- Parameters & Return Values: Pass values to functions and return results.
- Example: A function that adds two numbers and returns the result.

2. JavaScript Events & DOM Manipulation:

- Event Handling: Respond to user actions (e.g., click, keydown).
- DOM Manipulation: Dynamically change HTML content (using document.getElementById(), etc.).
- Example: Updating text on the webpage when a button is clicked.

3. Fetching Data with fetch() API:

- Making HTTP requests to get data from a server.
- Handling promises and asynchronous operations.
- o Example: Fetching data from a JSON file or an external API.



Get Started With GEMINIAI

1. Overview of GEMINIAI API:

- GEMINIAI is an AI platform that offers advanced capabilities for building chatbots.
- Features: Natural language processing, context-aware responses, and customizable chatbot functionalities.
- Benefits: Easily integrate AI-driven responses into your web projects with minimal setup.

2. How it Fits into Web Development:

- GEMINIAI simplifies the process of creating interactive and intelligent chatbots for websites.
- Enhances user experience by providing conversational interfaces and automated responses.



Chatbot Project Overview

1. Project Objective:

- Build a basic chatbot that interacts with users using the GEMINIAI API.
- The chatbot will receive user input, send it to GEMINIAI for processing, and display the response on the webpage.

2. Features to Implement:

- Output of the original original
- API Integration: Connect the chatbot UI to GEMINIAI for real-time responses.
- Basic Styling: Use CSS to create an attractive, user-friendly design for the chatbox.
- Responsive Design: Ensure the chatbot is mobile-friendly and easy to use on any device.



Chatbot Project Overview

1. Frontend:

- HTML: Structure of the chatbot UI.
- CSS: Styling the chatbot (chat bubbles, chat window).
- JavaScript: Handling user input, API requests, and responses.

2. API Integration:

- GEMINIAI API Key: Required for authenticating requests.
- o Endpoint URL: GEMINIAI API's endpoint to send data and get responses.
- Use fetch() or XMLHttpRequest for API calls.



Conclusion of the Workshop

1. Key Learnings:

- Basic HTML, CSS, and JS for web development.
- Advanced JS concepts like functions, events, and APIs.
- How to create an interactive chatbot with GEMINIAI API.
- Best practices for building responsive web applications.

2. Encouragement:

- Keep experimenting with projects and exploring new web development technologies.
- The skills learned here will help you participate in the Google Solution Challenge and beyond!



THANKYOU

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QR For Certificate + Feedbacks



