

DAY-2


WORKSHOP ON

INTERACTIVE WEB DEVELOPMENT + CHATBOT

WITH GEMINIAI API

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



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.
- 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:

- User Interface (UI): A simple chat interface (chat bubble design).
- 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.
- 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!

THANK YOU

~Ghanasham A. Irhetti

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QR For Certificate + Feedbacks

