

**DAY-1**

# WORKSHOP ON KICKSTART WEB DEVELOPMENT + GOOGLE SOLUTION CHALLENGE OVERVIEW

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



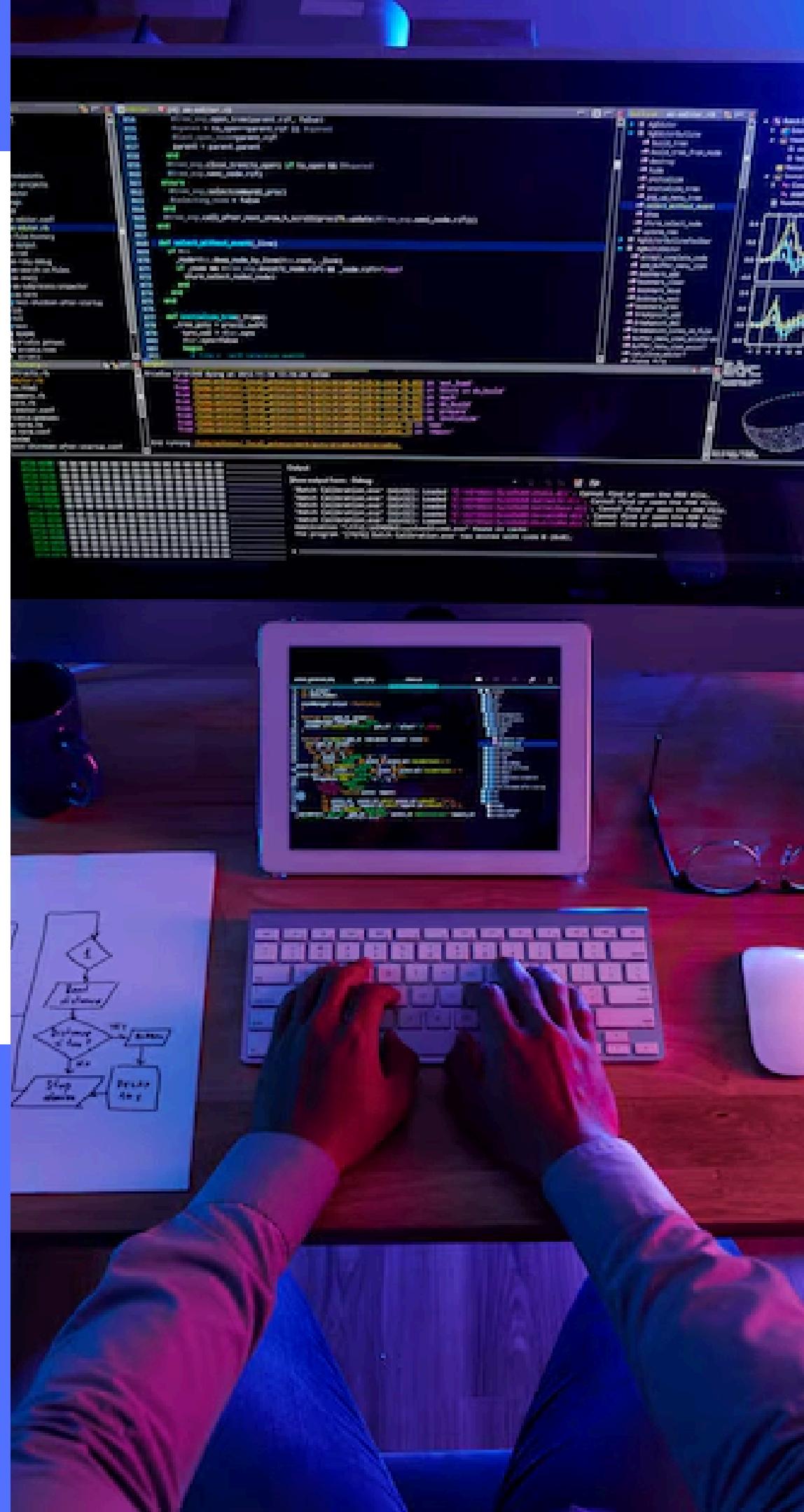
## ABOUT ME

- NAME: GHANASHAM IRASHETTI
- ROLE: CO-ORGANIZER AT GDG, WEB DEVELOPMENT ENTHUSIAST
- EXPERIENCE:
  - SKILLED IN FULL STACK DEVELOPMENT (MERN).
  - BUILT PROJECTS LIKE CARECONNECT.AI AND EDUTRACKER.
  - PRESENTED AT HACKATHONS, AVISHKAR AND SHARK TANK COMPETITIONS.
- EDUCATION:
  - 3RD YEAR STUDENT AT N. K. ORCHID COLLEGE OF ENGINEERING & TECHNOLOGY, SOLAPUR.
  - DIPLOMA [CSE] PASSOUT - 2023
- **LinkedIn:** <https://www.linkedin.com/in/ghansham-irshetti/>
- **GitHub:** <https://github.com/Ghanasham2004>



# DAY-1 CONTENT

1. Introduction to the Workshop Objectives.
2. Google Solution Challenge Highlights:
  - Solving global problems with technology.
  - Encouraging innovation and impact.
3. How learning web development helps in participating.
4. Web Development Scope
5. Advance Tech Info
6. Hands-On Practical on HTML, CSS, JS



# 🌟 Welcome to the Web Development Workshop! 🌟

This beginner-friendly workshop is designed to kickstart your journey into the exciting world of web development. Over the next two days, you'll gain a strong foundation in essential technologies like HTML, CSS, and JavaScript, while also exploring advanced topics and building a real-world project: a chatbot powered by the GEMINIAI API. Beyond coding, we'll discuss the scope of web development, introduce key tools and technologies, and connect it all to the Google Solution Challenge, encouraging you to create impactful solutions. Whether you're new to coding or looking to sharpen your skills, this workshop is your gateway to innovation and creativity in the digital space. Let's build together! 🚀



N.K. ORCHID COLLEGE OF ENGG. & TECH. SOLAPUR



# Scope Of Web Development

## Scope of web development

From sources across the web



Artificial intelligence



Internet of things



Progressive Web Apps



Full stack developers



Mobile applications



Search engine optimizati...



Ecommerce



Software industry



Technology



Web designing company



Virtual reality



Web Developer



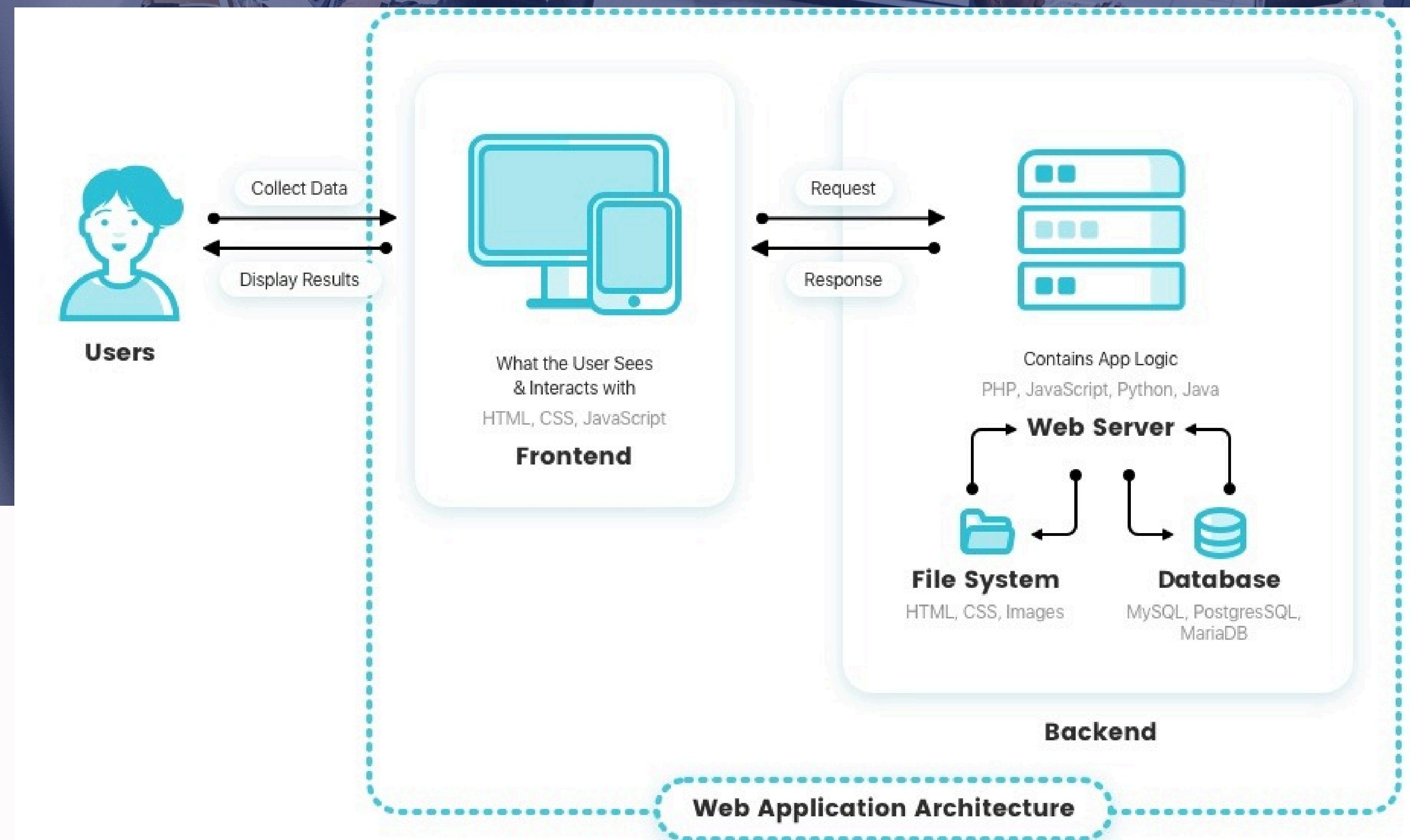
Designer



Blockchain



Google Developer Groups

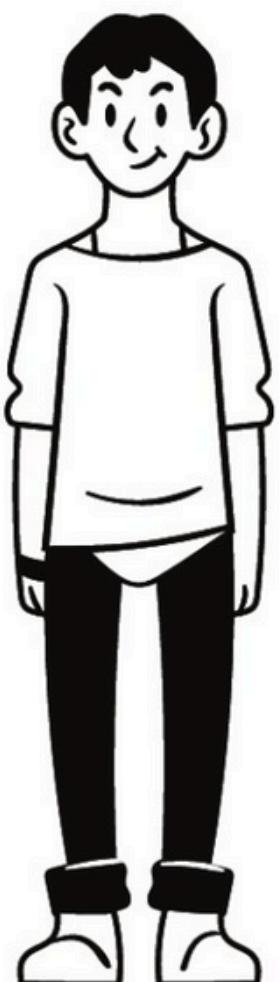


# Web Development Technologies





**Skeleton**  
(html)



**Human body**  
(CSS)



**Human Brain**  
(JavaScript)

#### **Create the structure**

- Controls the layout of the content
- Provides structure for the web page design
- The fundamental building block of any web page

#### **Stylize the website**

- Applies style to the web page elements
- Targets various screen sizes to make web pages responsive
- Primarily handles the «look and feel» of a web page

#### **Increase interactivity**

- Adds interactivity to a web page
- Handles complex functions and features
- Programmatic code which enhances functionality

# Web Development Technologies



## 1. Basic Structure

- <html>, <head>, <body>

## 2. Common Elements

- Headings: <h1> to <h6>
- Paragraphs: <p>
- Links: <a href="url">
- Images: 

## 3. Lists

- Unordered: <ul>, <li>
- Ordered: <ol>, <li>

# CSS



## 4. Tables

- Basic tags: <table>, <tr>, <td>, <th>

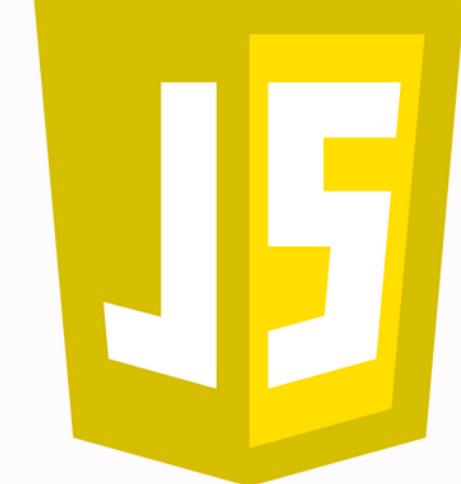
## 5. Forms

- Basic form tags: <form>, <input>, <label>, <button>

## 6. Semantic Elements

- Structure: <header>, <nav>, <main>, <section>, <footer>

# JAVASCRIPT



# Web Development Technologies



HTML



CSS



JAVASCRIPT

■ CSS

## 1. Selectors

- Types: Element, Class, ID

## 2. Basic Properties

- Color: color, background-color
- Text: font-size, font-family, text-align
- Box Model: width, height, padding, margin, border

## 3. Layout

- Display: block, inline, inline-block, none
- Position: static, relative, absolute, fixed, sticky
- Flexbox: display: flex, justify-content, align-items

## 4. Styling Links

- Pseudo-classes: :link, :visited, :hover, :active

## 5. Responsive Design

- Media Queries: @media

## 6. CSS Grid

- Basic properties: display: grid, grid-template-columns, grid-template-rows

# Web Development Technologies



HTML



CSS



JAVASCRIPT

PPT-Ghanasham A. I.

JavaScript

## 1. Basics

- Variables: var, let, const
- Data Types: String, Number, Boolean, Array, Object
- Operators: Arithmetic, Comparison, Logical

## 2. Control Structures

- Conditional Statements: if, else, switch
- Loops: for, while, do...while

## 3. Functions

- Declaration: function keyword
- Arrow Functions: () => {}

## 4. Events

- Event Handling: onclick, onload, addEventListener, and more

## 5. DOM Manipulation

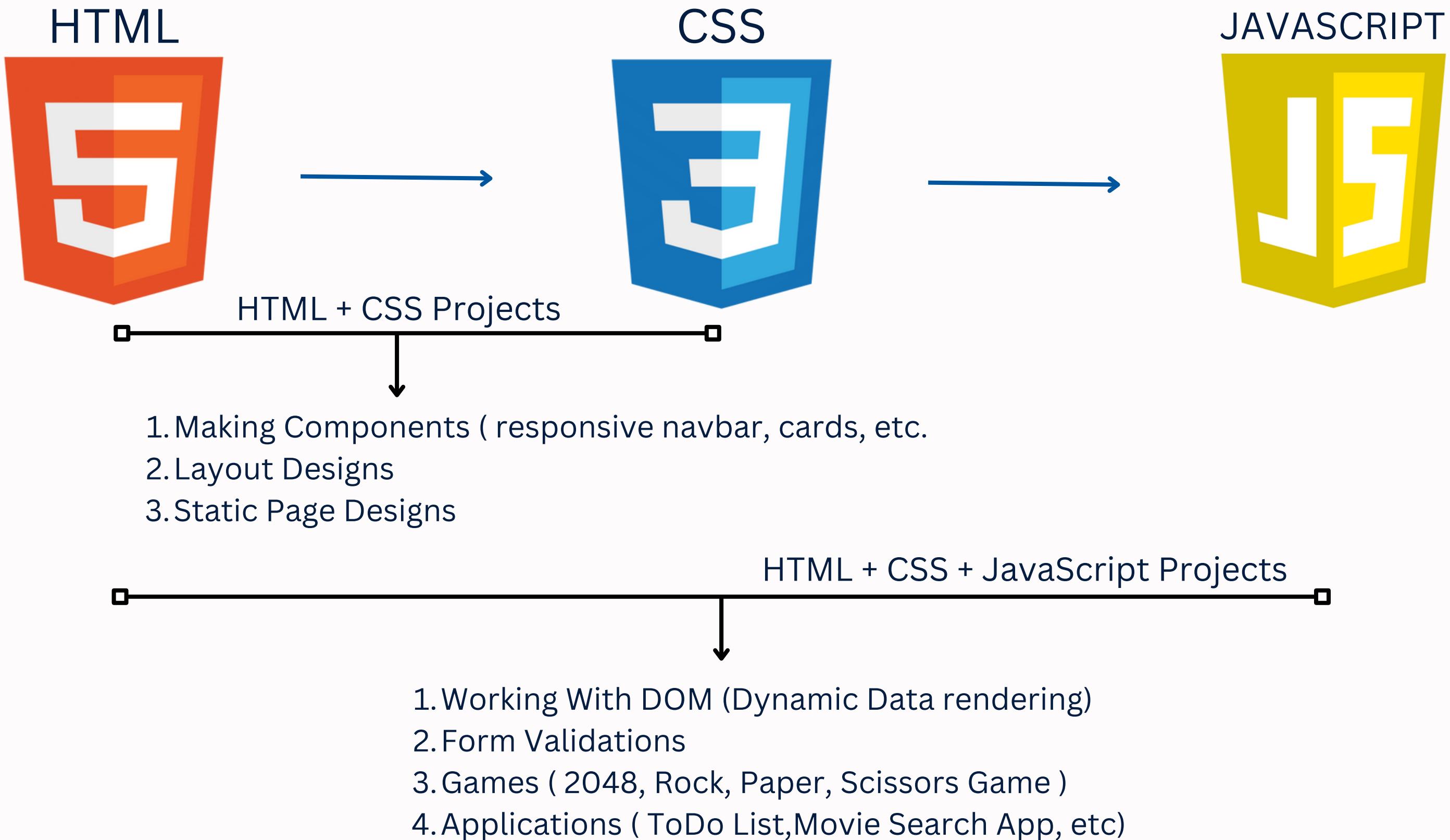
- Selectors: getElementById, querySelector
- Modifying Elements: innerHTML, style

## 6. ES6 Features

- Template Literals: `
- Destructuring: {} and []
- Modules: import, export



# Projects To Build

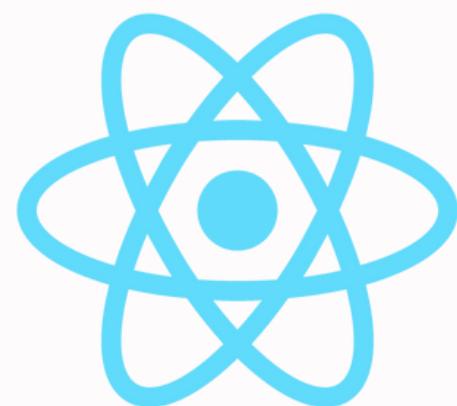


# Advance Information

Angular.Js



React.Js



Next.Js



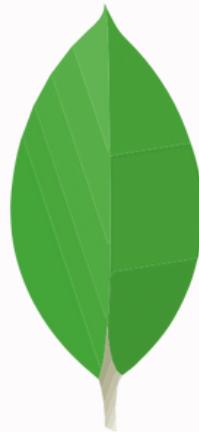
Node.Js



Express.Js



MongoDB



## What Is Full Stack Development

FrontEnd+Backend

### MEAN

**M** - MongoDB  
**E** - Express.js  
**A** - Angular.js  
**N** - Node.Js

### MERN

**M** - MongoDB  
**E** - Express.js  
**R** - React.js  
**N** - Node.Js

### MEVN

**M** - MongoDB  
**E** - Express.js  
**V** - Vue.js  
**N** - Node.Js



Git + GitHub



# THANK YOU

- ENCOURAGE JOINING GDG FOR MORE WORKSHOPS.
- SHARE COMMUNITY LINKS FOR LEARNING RESOURCES.

