



**GOMYCODE**

# **WEB FUNDAMENTALS**

# **CHECKPOINT**

**Understanding the World of Web  
Development**

Presented by **Salim Jamal Salim**



# HOW DOES THE WEB WORK?

- **The Client (Your Browser):** You type a web address (like [www.example.com](http://www.example.com)) into your browser. This sends a request to a server.
- **The Request:** Your browser uses the Hypertext Transfer Protocol (HTTP) to send this request over the internet.
- **The Server:** A powerful computer (the web server) hosts the website's files (HTML, CSS, JavaScript, images, etc.).
- **The Response:** The server receives the request and uses HTTP to send the requested files back to your browser.
- **Rendering:** Your browser interprets these files:
  - **HTML:** Provides the structure and content of the webpage.
  - **CSS:** Defines the visual style and layout.
  - **JavaScript:** Adds interactivity and dynamic behavior.
- **The Result:** Your browser displays the fully rendered webpage for you to see and interact with.

In simple terms: You ask (request), the web answers (responds) with the information to build the webpage you see.

# WHAT DO YOU NEED TO BE A WEB DEVELOPER?

Being a web developer involves a blend of technical skills, soft skills, and a continuous learning mindset. Here are some key areas:

## Core Technical Skills:

- **HTML:** The foundation for structuring web content.
- **CSS:** Styling and presentation of web content.
- **JavaScript:** Adding interactivity and dynamic functionality.
- **Front-End Frameworks/Libraries (Optional but often required):** React, Angular, Vue.js (for building complex user interfaces).
- **Back-End Technologies (Depends on specialization):** Programming Languages: Python, Java, Node.js, Ruby, PHP, etc.
- **Databases:** SQL (e.g., PostgreSQL, MySQL), NoSQL (e.g., MongoDB).
- **Server-Side Frameworks:** Django, Spring, Express.js, Ruby on Rails, Laravel, etc.
- **Version Control:** Git and platforms like GitHub or GitLab for managing code changes.
- **Understanding of Web Concepts:** HTTP, APIs, RESTful principles, security best practices.
- **Soft Skills:** Problem-solving: Debugging and finding solutions to technical challenges.
- **Communication:** Explaining technical concepts and collaborating with teams.
- **Learning Agility:** The web development landscape is constantly evolving, so a willingness to learn is crucial.
- **Attention to Detail:** Ensuring code is accurate and the user experience is polished.

# WHY I CHOSE TO LEARN **WEB DEVELOPMENT**

Web development is all about solving real world problems and I am dedicated and passionate person to provide solutions for existing problems through web development.

## Career Opportunities

- I'd love to help small businesses in my area that might not have a strong online presence. Imagine building informative and user-friendly websites for our local shops, restaurants, and tradespeople.

## Long-term Goals

- Ultimately, my goal is to work on real-world projects right here in Kenya. I believe a stronger online presence can really benefit our local communities and businesses. By building a portfolio of these projects, I hope to not only improve things locally but also open up more opportunities for my own career growth in the future. It's about using these technical skills to create tangible value and make a positive contribution to my community.

The image features a white background with large, bold, red text in the center. In the corners, there are decorative elements: a black circle with a red segment in the top-left, a black arc in the top-right, and a red arc with a black segment in the bottom-right.

**THANK  
YOU**

**GOMYCODE**