



NATIONAL UNIVERSITY
of Computer & Emerging Sciences

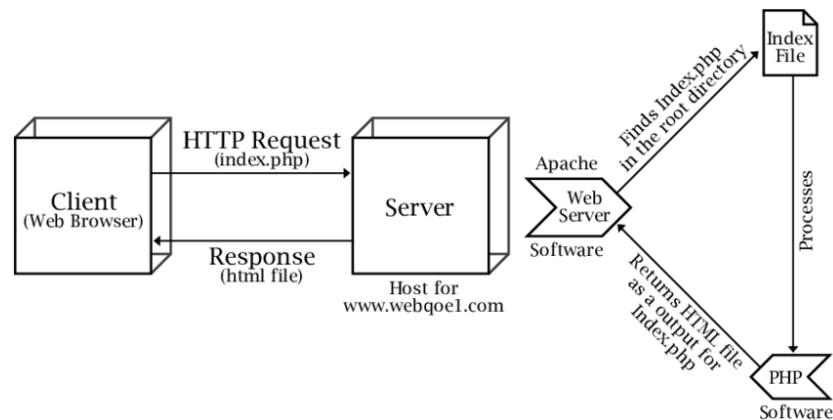
Project Title:

Simple

HTTP(HyperTextTransferProtocol)

Web

Server



Group Members:

1. Muzzamil (23k-2023)
2. Zain (23k-2038)

Proposed Project Description:

Our project aims to build a simple HTTP web server that serves HTML pages and handles HTTP requests. The server will be lightweight and capable of processing HTTP GET and POST requests, providing static HTML content to users. We plan to implement this project using Python (Flask or HTTPServer), Java (Spring Boot), or Node.js, depending on the most efficient approach for the requirements. The web server will enable users to request HTML pages, and the server will respond by serving the requested static HTML content. This project will help us understand server-client architecture, HTTP protocols, and web server functionality.

Functional Features:

- Serve static HTML pages
- Handle HTTP GET requests
- Handle HTTP POST requests
- Lightweight and efficient web server structure

Plan of Work:

Week 1: Research and choose the most suitable technology (Python, Java, or Node.js)

Week 2: Set up the development environment and initial server structure

Week 3: Implement HTTP GET request handling and serving static HTML pages

Week 4: Implement HTTP POST request handling

Week 5: Test server functionality and optimize performance

Team Contributions:

- **Muzzamil (23k-2023):**
 - Research and environment setup
 - Implement HTTP GET request handling
 - Server optimization and performance testing
- **Zain (23k-2038):**
 - Implement HTTP POST request handling
 - HTML page creation and integration
 - Server testing and debugging

References:

- Flask Documentation: <https://flask.palletsprojects.com/>
- Java Spring Boot Documentation: <https://spring.io/projects/spring-boot>
- Node.js Documentation: <https://nodejs.org/en/docs/>
- HTTP Protocol Overview:
<https://developer.mozilla.org/en-US/docs/Web/HTTP/Overview>