**HTTP METHODS:**

Here is a detailed explanation of what each HTTP method does in the code:

**1. GET**

* **Description**:  
  Used to retrieve a file from the server. The file is fetched from the root directory (e.g., C:\temp) based on the requested path and language (lang).
* **Implementation in Code**:
  + The createGetResponse function attempts to read the requested file.
  + If the file exists, its content is returned with a 200 OK status code.
  + If the file is not found, a 404 Not Found response is returned.

**2. POST**

* **Description**:  
  Used to send data to the server for storage or processing.
* **Implementation in Code**:
  + The createPostResponse function logs the request body (requestBody) to the server console.
  + Returns a 200 OK response with an HTML message confirming that the request was received successfully.

**3. PUT**

* **Description**:  
  Used to create a new file or update an existing file on the server with the provided data.
* **Implementation in Code**:
  + The createPutResponse function writes the request body to the specified file path.
  + If the operation is successful, a 200 OK response is returned, confirming the file creation or update.
  + If the file cannot be created or written, a 500 Internal Server Error response is returned.

**4. DELETE**

* **Description**:  
  Used to delete a file from the server.
* **Implementation in Code**:
  + The createDeleteResponse function attempts to delete the specified file.
  + If the file is successfully deleted, a 200 OK response is returned.
  + If the file is not found, a 404 Not Found response is returned.

**5. OPTIONS**

* **Description**:  
  Used to return a list of all HTTP methods supported by the server or for a specific resource.
* **Implementation in Code**:
  + The createOptionsResponse function returns a list of supported methods (GET, POST, PUT, DELETE, OPTIONS, TRACE, HEAD) in the Allow header.
  + The response includes a 200 OK status code.

**6. TRACE**

* **Description**:  
  Used for debugging purposes, it echoes back the exact HTTP request sent by the client.
* **Implementation in Code**:
  + The createTraceResponse function returns the original request body in the response.
  + The response includes a 200 OK status code with the echoed request.

**7. HEAD**

* **Description**:  
  Similar to GET, but it only returns the response headers without the body content.
* **Implementation in Code**:
  + The createHeadResponse function returns the response headers and file size (if found) without the file content.
  + The response includes a 200 OK status code if the file exists, or 404 Not Found if it doesn't.

TRACE localhost:80/server\_page\_en.html

A screenshot of a computer

Description automatically generatedREQUEST:

A screenshot of a computer

Description automatically generatedRESPONSE:

GET localhost:80/server\_page.html

REQUEST:

A screenshot of a computer

Description automatically generated

RESPONSE:

A screenshot of a computer

Description automatically generated

GET localhost:80/server\_page.html?lang=fr

A screenshot of a computer

Description automatically generatedREQUEST:

A screenshot of a computer

Description automatically generatedRESPONSE:

GET localhost:80/not\_existe\_page.html

A screenshot of a computer

Description automatically generatedREQUEST:

A screenshot of a computer

Description automatically generatedRESPONSE:

POST localhost:80/submit

Body: “This is the content for the new file.”

A screenshot of a computer

Description automatically generatedREQUEST:

RESPONSE:

A screenshot of a computer

Description automatically generated

PUT localhost:80/newfile.txt

A screenshot of a computer

Description automatically generatedBody: “This is the content for the new file.”

REQUSET:

A screenshot of a computer

Description automatically generatedRESPONSE:

DELETE localhost:80/newfile.txt

A screenshot of a computer

Description automatically generatedREQUEST:

A screenshot of a computer

Description automatically generatedRESPONSE:

HEAD localhost:80/server\_page\_en.html

A screenshot of a computer

Description automatically generatedREQUEST:

A screenshot of a computer

Description automatically generatedRESPONSE:

OPTIONS localhost:80/server\_page\_en.html

A screenshot of a computer

Description automatically generatedREQUEST:

A screenshot of a computer

Description automatically generatedRESPONSE: