

Class Name	Method Name	Explanation
HttpServer	create(InetSocketAddress addr, int backlog)	Static Factory Method: Creates an HttpServer instance. Binds it to the specified InetSocketAddress (IP address and port) and sets the connection backlog queue size.
	start()	Starts the HTTP server, making it begin accepting incoming client connections on the configured address and port.
	stop(int delay)	Stops the HTTP server gracefully. It waits for up to delay seconds for pending requests to complete before fully shutting down.
	createContext(String path, HttpHandler handler)	Creates a new HttpContext for the HttpServer. Maps the specified URI path (path) to a given HttpHandler instance. Requests matching this path will be dispatched to the handler.
	createContext(String path)	Creates a new HttpContext for the HttpServer for the specified URI path (path). The HttpHandler can be set later using HttpContext.setHandler().
	setExecutor(Executor executor)	Sets a custom Executor to be used by the HttpServer for handling incoming requests. This allows control over thread management. If null, a default executor is used.
	getExecutor()	Returns the currently configured Executor used by the HttpServer for request handling.
	getAddress()	Returns the InetSocketAddress to which the HttpServer is bound and listening.
HttpHandler	handle(HttpExchange exchange)	Abstract Method (Interface Method): The core method that must be implemented by any class acting as an HttpHandler. This method is invoked by the HttpServer to process an incoming HTTP request. It takes an HttpExchange object providing access to request and response information.
HttpExchange	getRequestMethod()	Returns the HTTP method of the incoming request (e.g., "GET", "POST").
	getRequestURI()	Returns the URI object representing the requested URI.
	getRequestHeaders()	Returns an Headers object representing the HTTP request headers.
	getRequestBody()	Returns an InputStream to read the body of the HTTP request (if any, e.g., for POST or PUT requests).
	getResponseBody()	Returns an OutputStream to write the body of the HTTP response.
	getResponseHeaders()	Returns an Headers object representing the HTTP response headers. Headers can be set on this object before sending the response.
	sendResponseHeaders(int rCode, long length)	Crucial Method: Sends the HTTP response headers and status code (rCode) to the client. The length parameter specifies the expected length of the response body (can be 0 or -1 if length is not known in advance). Must be called before writing to getResponseBody().
	close()	Crucial Method: Closes the HttpExchange, finalizing the response and closing the underlying client connection. Must be called after processing the request and sending the response (even if there's no response body).
	getLocalAddress()	Returns the InetSocketAddress of the local address on which the request was received by the server.
	getHttpContext()	Returns the HttpContext associated with this HttpExchange.
	getResponseCode()	Returns the HTTP response status code that was set using sendResponseHeaders().