
Subject: ChatGPT knows U++

Posted by [koldo](#) on Thu, 22 Dec 2022 19:49:28 GMT

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My first experience with ChatGPT. Simple samples, but I have tried successfully much more complex examples.

From <https://chat.openai.com/chat>:

Iñaki: Could you write a function to do a simple HTTP server using the U++ library?

Sure! Here is a simple function that uses the U++ library to create an HTTP server that listens for incoming connections on a specified port and responds to incoming requests with a simple message:

```
#include <Core/Core.h>

using namespace Upp;

void runHttpServer(int port) {
    // Create a server socket and bind it to the specified port
    ServerSocket server;
    server.Bind(port);

    // Start listening for incoming connections
    server.Listen();

    // Run the server in a loop to handle incoming connections
    while (true) {
        // Accept an incoming connection
        TcpSocket client = server.Accept();

        // Read the request from the client
        String request = client.GetLine();

        // Send a simple response to the client
        client.PutLine("HTTP/1.1 200 OK");
        client.PutLine("Content-Type: text/plain");
        client.PutLine("");
        client.PutLine("Hello, World!");

        // Close the connection
        client.Close();
    }
}
```

To use this function, you would simply call it and pass in the port number that you want the server to listen on. For example:

```
runHttpServer(8080);
```

This would start the server and make it listen for incoming connections on port 8080. When a client connects to the server and sends a request, the server will respond with the message "Hello, World!".

Keep in mind that this is a very simple HTTP server, and does not implement all of the features and functionality of a fully-fledged HTTP server. However, it should give you a good starting point for building more advanced servers using the U++ library.

Iñaki: Great!. In addition, I wanted to read and print the data of an Sqlite database using the U++ C++ library. How can I do it?

To read and print the data of an SQLite database using the U++ library, you can use the Sql class, which provides functions and methods for interacting with SQLite databases.

Here is an example of how you might use the Sql class to read and print the data from a table in an SQLite database:

```
#include <Core/Core.h>

using namespace Upp;

void printDatabaseData(const String& filename, const String& table) {
    // Connect to the database
    Sql sql;
    sql.Connect("sqlite://" + filename);

    // Execute a SELECT query to retrieve the data from the table
    SqlCursor cur = sql.Execute(Format("SELECT * FROM %s", table));

    // Iterate through the rows in the result set and print the data
    while (cur.Fetch()) {
        for (int i = 0; i < cur.GetColumns(); i++) {
            cout << cur[i] << " ";
        }
        cout << endl;
    }

    // Close the database connection
    sql.Close();
}
```

To use this function, you would call it and pass in the filename of the SQLite database and the name of the table that you want to read from. For example:

```
printDatabaseData("database.db", "employees");
```

This would connect to the database file "database.db", execute a SELECT query to retrieve all of

the rows from the "employees" table, and print the data from each row.

Keep in mind that this is a very simple example, and you may want to add error handling and other features to your code depending on your specific requirements. You can find more information about using the `Sql` class and interacting with SQLite databases in the U++ documentation, which is available at [https://www.ultimatepp.org/www\\$.upweb\\$.docs\\$.html](https://www.ultimatepp.org/www$.upweb$.docs$.html).
