FTP File Deletion Client

Background

File Transfer Protocol (FTP) is a standard network protocol used to transfer files between a client and server. You are required to implement an FTP client that connects to an FTP server and deletes a specified file using the ftplib library in Python.

Task

You need to implement a function delete_file_from_ftp(host, username, password, file_to_delete) which deletes a specified file from an FTP server.

Requirements

- FTP Connection: The function should establish a connection to the FTP server using the given host.
- Login: The function should log in to the server using the provided username and password.
- File Deletion: The function should delete the specified file from the server.
- Proper Closure: The function should close the connection to the FTP server properly.
- Return Message: The function should return a confirmation message indicating the file has been successfully deleted.

Constraints

- Assume that the FTP server is always reachable and the provided credentials are correct.
- The file to be deleted will always exist on the server.
- The function should handle the normal flow without exceptions.

Output (without unit test)

220-FileZilla Server 1.7.0

220 Please visit https://filezilla-project.org/

230 Login successful.

250 File deleted successfully.

221 Goodbye.

The file unwantedfile.txt has been successfully deleted.

Output (with unit test)

220-FileZilla Server 1.7.0

220 Please visit https://filezilla-project.org/

230 Login successful.

250 File deleted successfully.

221 Goodbye.

login called with call('user', '123')

delete called with call('unwantedfile.txt')

test attribute passed: The file unwantedfile.txt has been successfully deleted. is equal to The file unwantedfile.txt has been successfully deleted.

test attribute passed: 220-FileZilla Server 1.7.0

220 Please visit https://filezilla-project.org/ is equal to 220-FileZilla Server 1.7.0

220 Please visit https://filezilla-project.org/

test attribute passed: 230 Login successful. is equal to 230 Login successful.

test attribute passed: 250 File deleted successfully. is equal to 250 File deleted successfully.

test attribute passed: 221 Goodbye. is equal to 221 Goodbye.