

Network File Server Project

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Description:

Network File Server is an implementation of a File Transfer Server using only Python sockets library. The server maintains a list of files stored locally on a directory('/Files') and serves it to the client upon request. The client is a browser which can connect to the server over a local LAN/Ad-Hoc connection such as a mobile hotspot. The server initially sends an HTML page which is generated dynamically based on the contents of the local directory. The supported file types are Text(.txt), Photos(.jpg) and Videos (.mp4). Files can be dynamically added to the local storage of the File Server and the same is updated in the browser of the client.

Conclusion:

In conclusion using only a low level library such as python sockets we are able to demonstrate file transfer of all possible file types including Text, Image and Video. In the future we would like to extend the same by creating a user interface and supporting more features such as downloading and additional file types.