

The Problem

Urban Science faces numerous challenges when it comes to uploading files to various sources securely and efficiently. Their previous solution, a manual python script, posed several problems, including the lack of user-friendliness, the inability to save commonly uploaded files, and the incapability to dynamically traverse the filesystem. Furthermore, the script did not allow for uploading files to multiple sources, which led to an inefficient distribution process. Additionally, The previous script did not offer any task scheduling, and employees spent a considerable amount of time preparing and troubleshooting the script to initiate the manual upload process, taking valuable time away from other responsibilities. Given the company's varied obligations, finding a more streamlined solution for file uploads has become increasingly crucial.

Elevator Statement

For employees at Urban Science who need a simple, secure, and efficient way of refining their current file upload process, SFTPPipeline is an application that provides users with a clear way to streamline their file upload process by providing an easy-to-use graphical user interface and automating all the complexities involved in secure file uploads. Unlike WinSCP and other SFTP applications, our solution will allow users to package commonly uploaded files together, send files to multiple SFTP servers at once, and manage automated scheduled uploads so that its users can focus on other responsibilities and skip the frustration involved with uploading files.

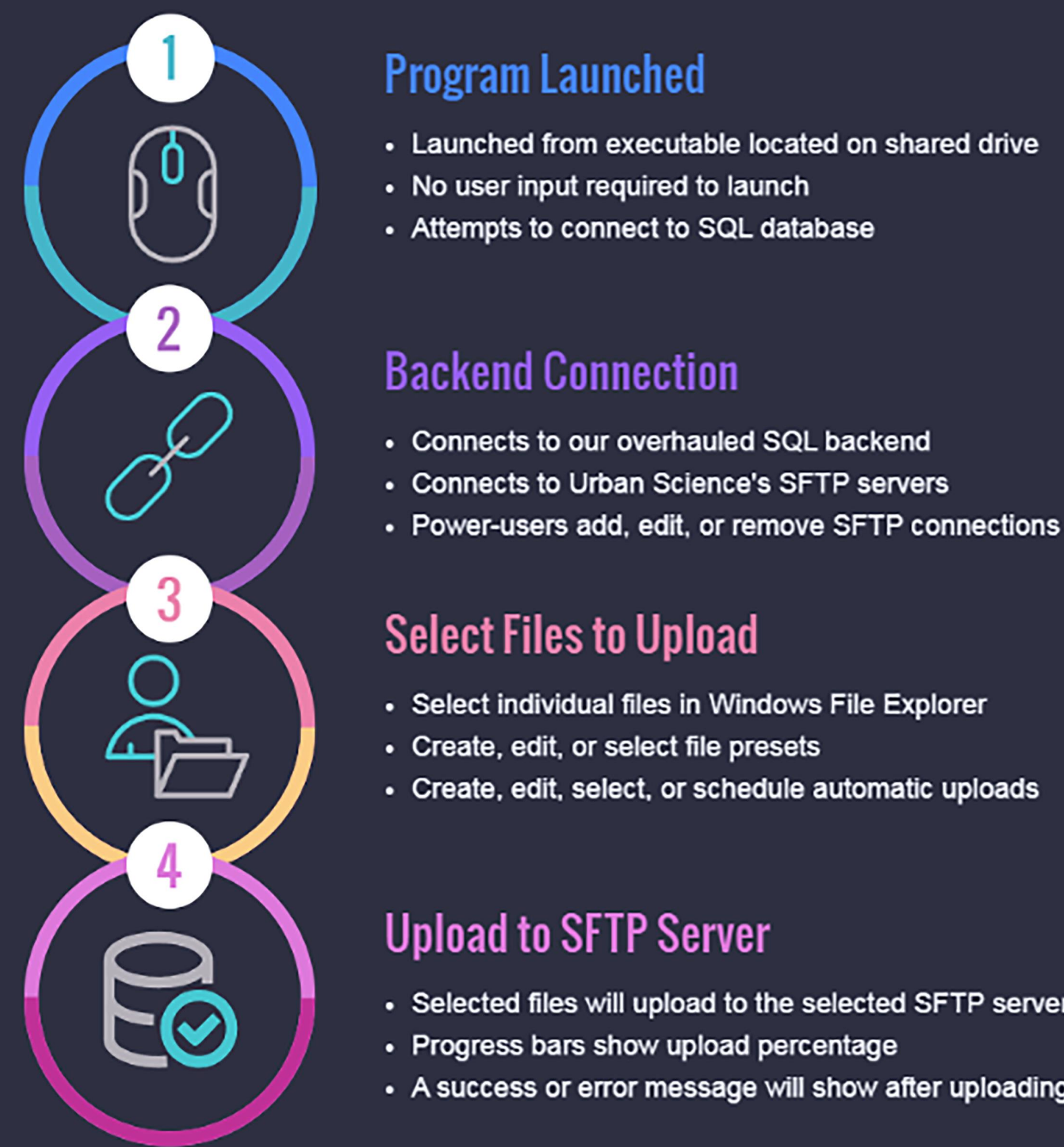
The Solution

The solution identified by our team in conjunction with our project sponsor is an all-in-one SFTP Client application that provides users with a clear and simple way to streamline their upload process, while being dynamic and automating all the complexities involved in the upload process. The SFTPPipeline allows users to package together commonly uploaded files into a container, send files to multiple SFTP servers at once, navigate their local file system to upload custom files, and create scheduled file uploads so that users can automate the file upload process.

What Does It Do

SFTPPipeline is a SFTP Client application that allows employees at Urban Science to easily streamline their file upload process

Process Steps

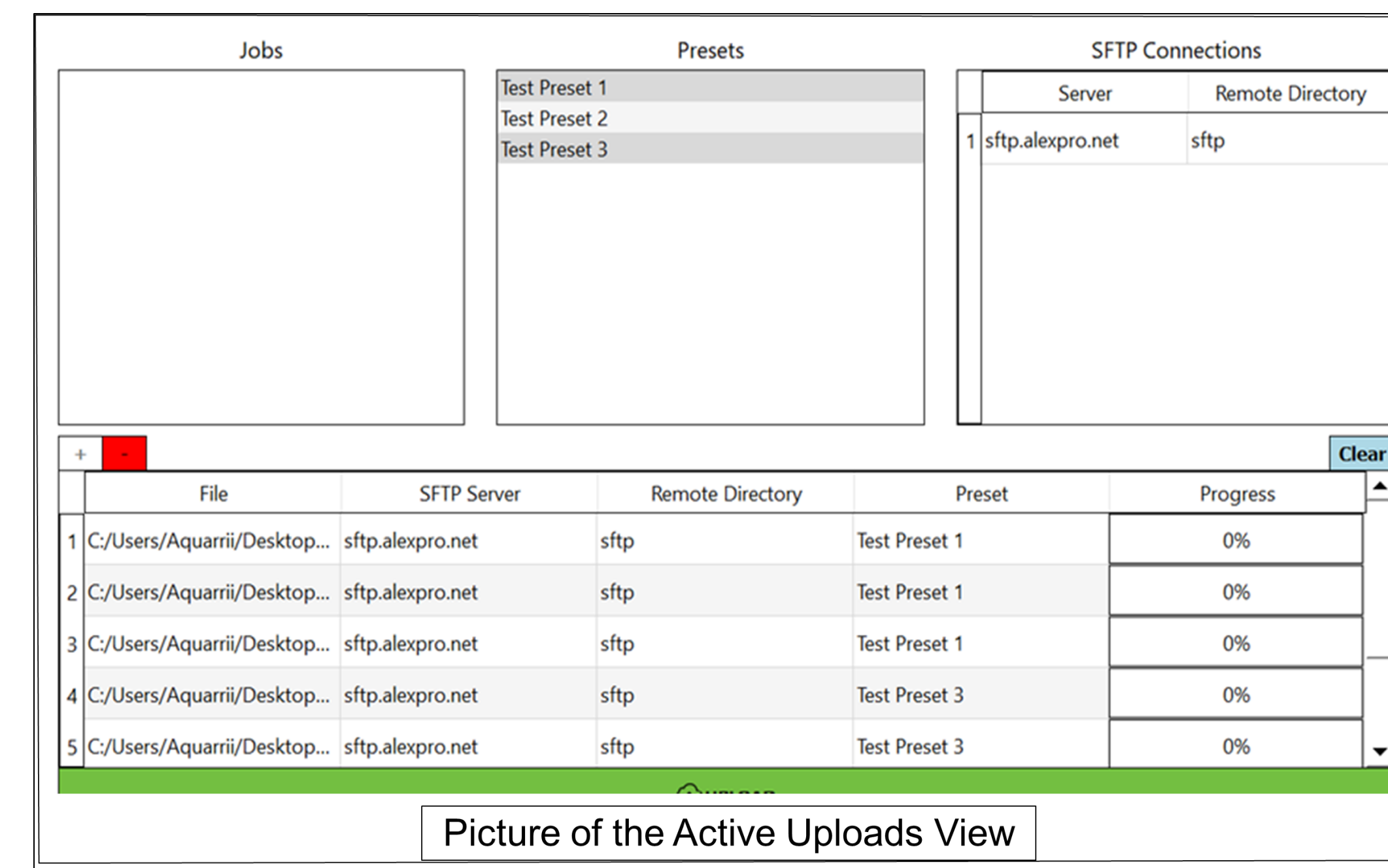


Main Features

- Packaging commonly uploaded files into a container called a "Preset"
- Sending multiple files to multiple SFTP servers at the same time
- Local Filesystem Navigation
- Scheduled Task Automation
- Dynamic SFTP Connections

User Home Screen

This is the **Staging Area** where users can prepare scheduled tasks, presets, and custom files to be uploaded to multiple SFTP Servers

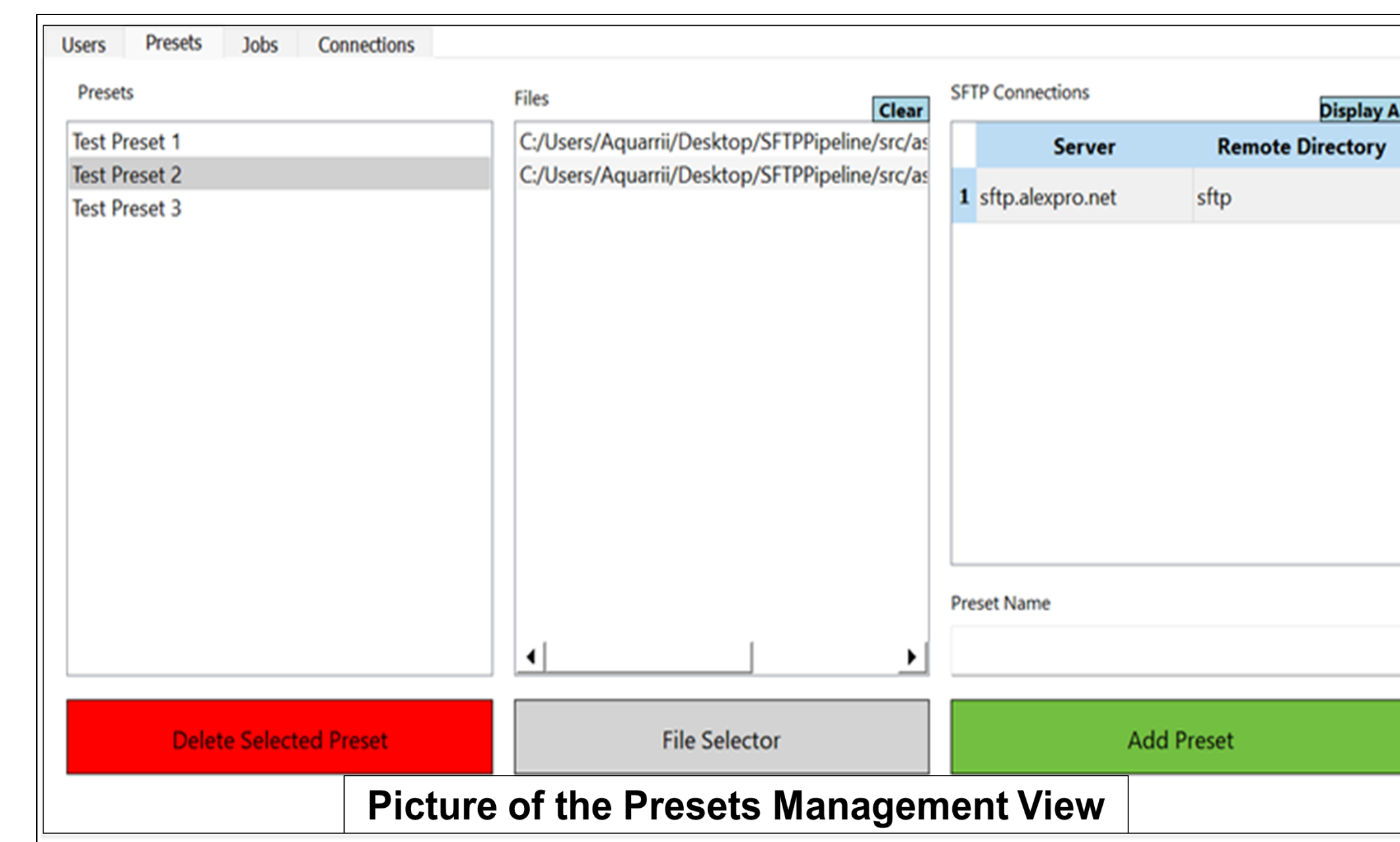


Admin Functionality

After authenticating, application administrators can edit file presets, SFTP connections, and scheduled tasks.

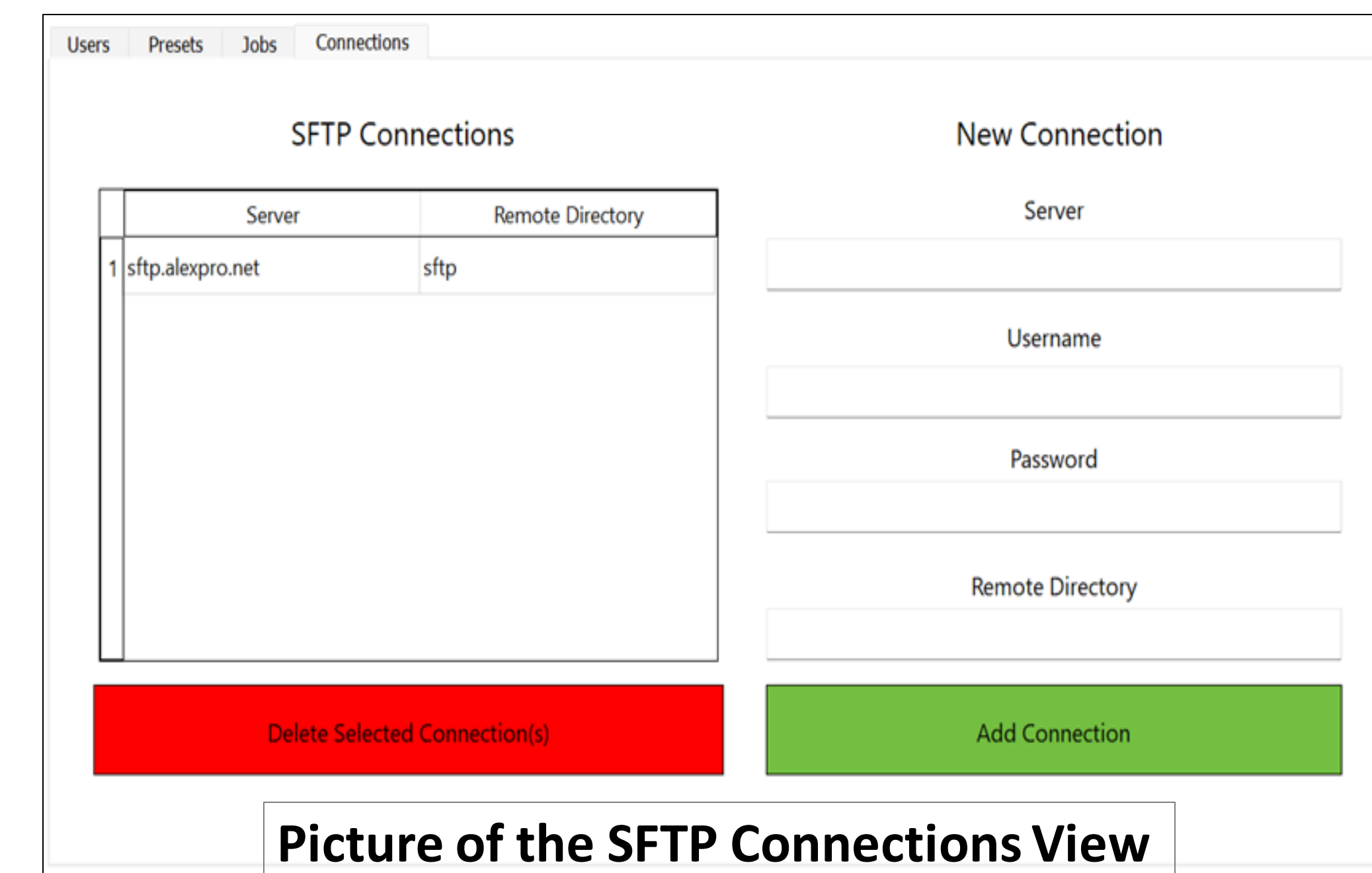
Presets Tab

This is where administrators can view, create, and delete Presets.



Connections Tab

This is where administrators can view, create, and SFTP Server .



Jobs Tab

This is where administrators can view, create, and Scheduled Tasks.



Why You Should Choose Us

Our SFTP Client is a flexible application that standardizes common uploads in a complex and diverse environment, also providing automation functionality, and scalability to meet the needs of its users.



Computer Science

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