

“Customization of the Nextcloud Linux Desktop”

Students: Geovani Rodriguez, Cynthia Valdes Martin, Alejandro Carballo

Mentor: Dr. Masoud Sadjadi, Florida International University

Instructor: Dr. Masoud Sadjadi, Florida International University

Problem

I - Lack of Detailed Installation Guide for Nextcloud Client

Development: Setting up the development environment for Nextcloud on Ubuntu was challenging due to the absence of a detailed guide.

II - Limited System Tray Functionality: The system tray menu was missing permanent account management options and direct links for improved user convenience.

III - Inadequate General Settings Options: The general settings lacked direct links to essential resources like Documentation Support and Customer Service Contact.

IV - Disjointed Customization Features: Customization features were scattered, lacking a central interface for better user experience.

V - Limited Nautilus Integration: Nautilus lacked advanced Nextcloud integration features like easy file copy/move to Nextcloud and generating shareable links directly.

II - Enhanced System Tray Features: More permanent, useful options in the system tray menu for ease of access.

System Tray Enhancements:

- Added "Add Account" as a permanent option.
- Created "Open NextCloud in Browser" for direct access to the server.
- Integrated "Report Issue" linking directly to the GitHub issues page.

- Add account
- Open main dialog
- Personal Tab
- Pause sync
- Open NextCloud on Browser
- Customization
- Settings
- Report Issue
- Exit Nextcloud

IV - Centralized Customization

Interface: A standalone section for all customization features.

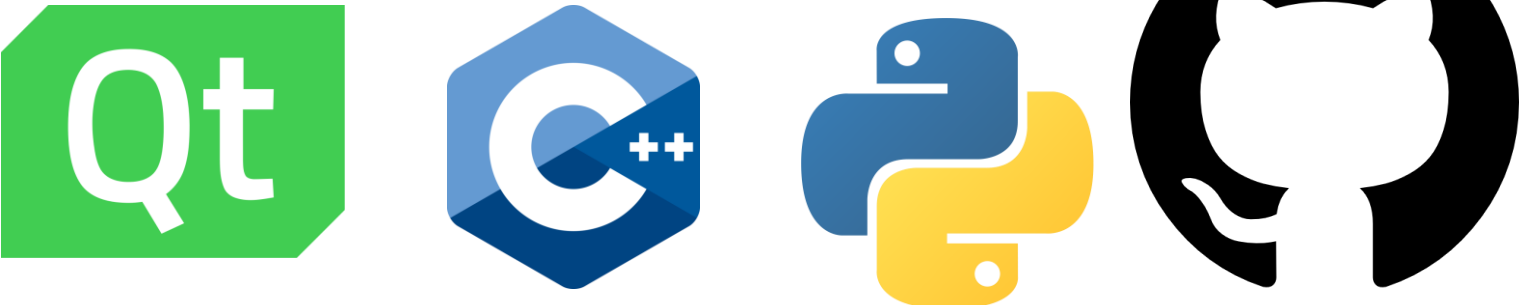
Customization Interface: Created new files (CustomizationWindow.cpp, .h, .ui) to house all customization features in a single location.

CustomizationWindow.cpp

CustomizationWindow.h

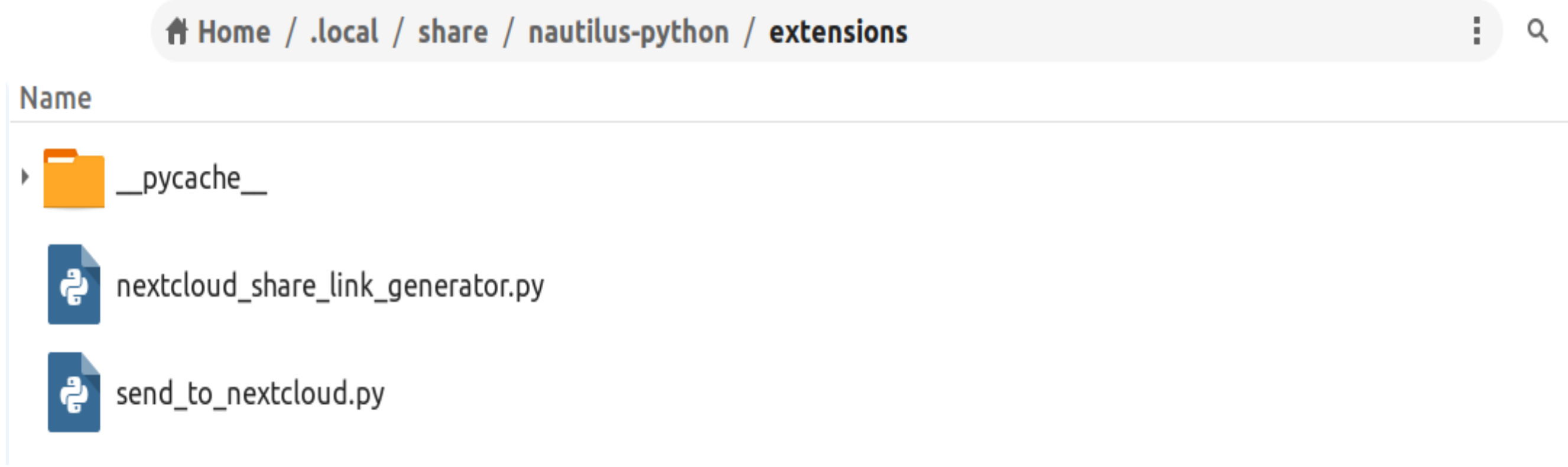
CustomizationWindow.ui

Implementation



V - Advanced Nautilus Integration: Seamless integration of Nextcloud functionalities into the Nautilus file manager.

- Developed a right-click option to copy/move files to Nextcloud with system notifications.
- Added a feature to generate shareable links from the Nextcloud folder.



Requirements:

I - Clear, Detailed Installation Instructions: A

comprehensive guide to set up a development environment for the Nextcloud client on Ubuntu.

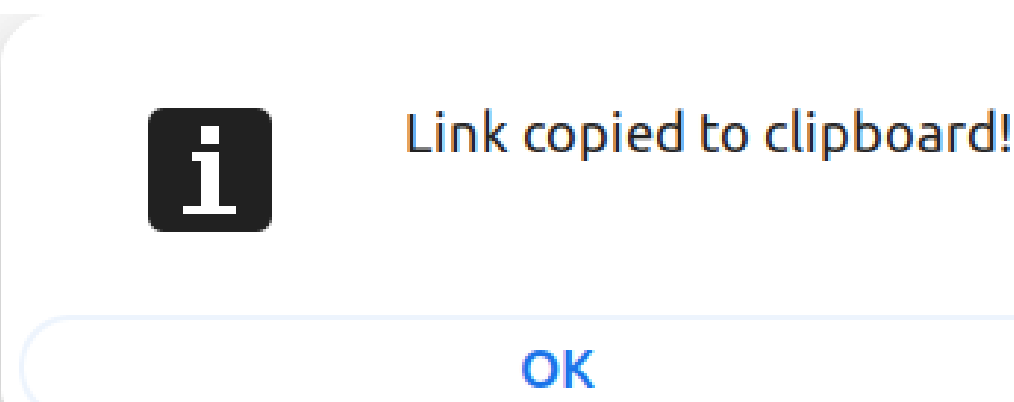
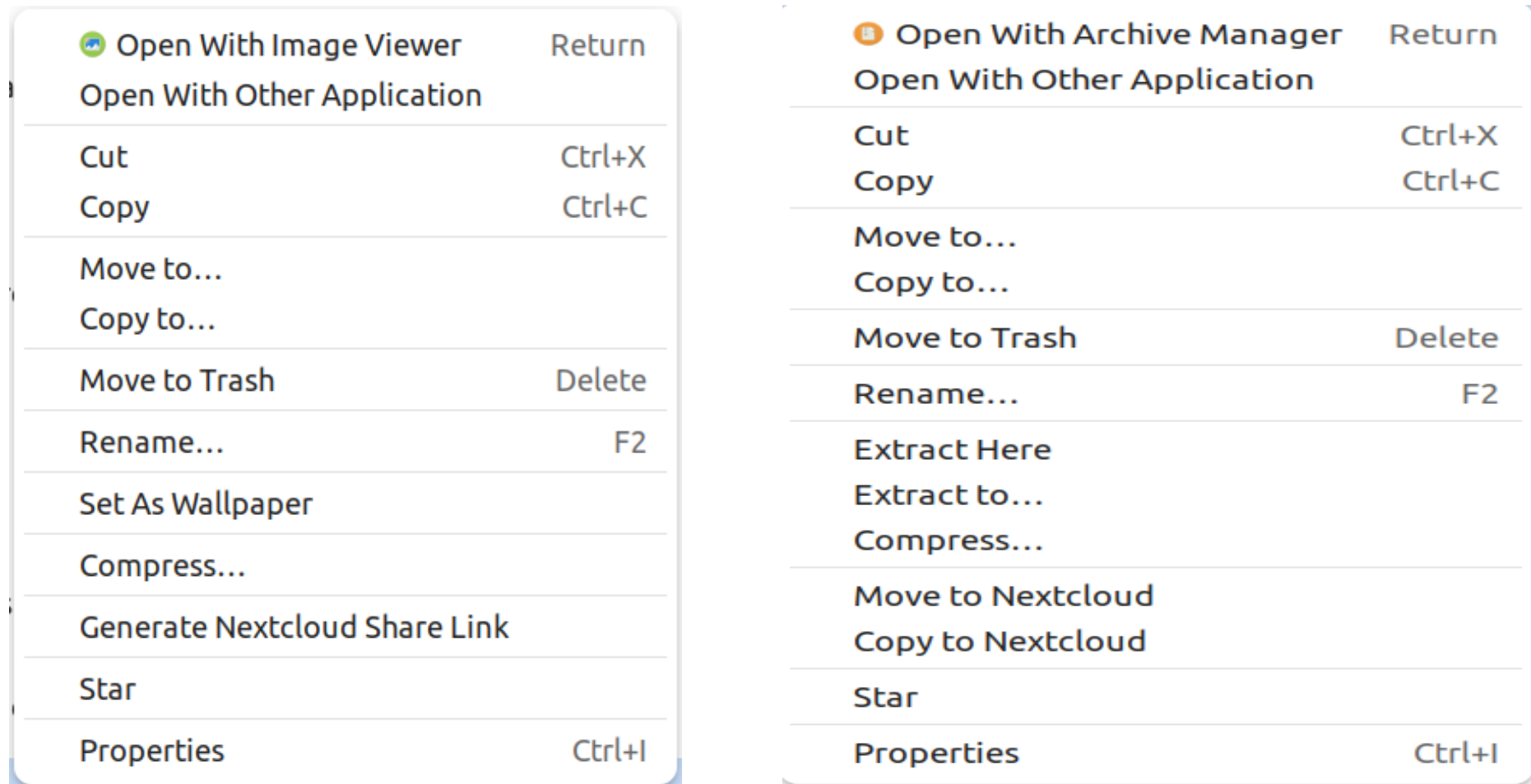
Developed a detailed guide and a script for setting up the Nextcloud client development environment, including installing dependencies, cloning the repository, and building the project.

<https://github.com/Geovani9/NextcloudQtCreatorUbuntu>

III - Additional General Settings Options:

Direct access to documentation and customer support from the settings menu.

- Implemented a "Documentation Support" button linking to the official Nextcloud documentation.
- Added a "Customer Service Contact" for direct access to support.



Nextcloud-QtCreator, Ubuntu 23.04

1. Install necessary tools and libraries:

1. Update the package lists:

```
sudo apt update
sudo apt upgrade
```

2. Install basic build tools:

```
sudo apt install build-essential git cmake
```

3. Install Qt Creator and necessary Qt5 dev packages:

```
sudo apt install qtcreator qttools5-dev-tools libqt5webkit5-dev qtbase5-dev
```

3.1. Install other necessary libraries:

```
sudo apt install libssl-dev libsqlite3-dev zlib1g-dev
```

```
sudo apt install pkg-config
sudo apt-get install qt5keychain-dev
sudo apt-get install libqt5websockets5-dev
sudo apt-get install qtquickcontrols2-5-dev
sudo apt-get install qtwebengine5-dev libqt5webengine5 libqt5webenginewidgets5
sudo apt-get install linkscape
sudo apt-get install librsvg2-bin
sudo apt-get install python3-sphinx
sudo apt-get install texlive-latex-base
sudo apt-get install doxygen
sudo apt-get install libkf5archive-dev
sudo apt-get install qtbase5-private-dev
sudo apt-get install qttools5-dev qttools5-dev-tools
sudo apt-get install libkf5kio-dev
sudo apt-get install libcmocka-dev
sudo apt-get install libssl-dev
sudo apt-get install libqt5svg5-dev
sudo apt-get install extra-cmake-modules
```

Documentation Support

Customer Service Contact

V.1 - Integration and Installation Script

for Nautilus Extensions: Created and placed new files in nextcloud/shell_integration/nautilus, along with an installation script to automate the setup process during Nextcloud installation.

```
#!/bin/bash

# Script to install send_to_nextcloud.py and nextcloud_share_link_generator.py, and required packages

# Install necessary packages
sudo apt-get update
sudo apt-get install python3-nautilus python3-gi libnotify-bin python3-pip python3-requests python3-pyperclip -y

# Copy the python scripts to nautilus extensions directory
mkdir -p $HOME/.local/share/nautilus-python/extensions
cp send_to_nextcloud.py $HOME/.local/share/nautilus-python/extensions/
cp nextcloud_share_link_generator.py $HOME/.local/share/nautilus-python/extensions/

# Restart Nautilus
nautilus -q && nautilus &
```

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