

Lovely Professional University



School of Computer Science and Engineering

Python Project: **File Manager**
GROUP 9

Course code: **INT213**
Section: **K19KB**

Submitted By

Name: Neeraj Kumar
Reg No: 11912080
Roll No: 29

Name: Kartikey Sahu
Reg No: 11915124
Roll No: 65

Student Declaration

This is to declare that this report has been written by us. NO part of the report is copied from other sources. All information included from other sources have been duly acknowledged. We aver that any part of the report is found to be copied, we shall take full responsibility for it.

PLACE: Lovely Professional University, Jalandhar

DATE: 1 November, 2020

Name: Neeraj Kumar
Reg No: 11912080
Roll No: 29

Name: Kartikey Sahu
Reg No: 11915124
Roll No: 65

Introduction

This project, **File Manager**, is developed using tkinter, os, threading, send2trash and some other minor libraries of Python. Needless to mention, the project is written in Python language. The aim of this system was to create a Graphical User Interface program which can help user manage their file with only a few clicks.

As of now, this program only allows CUT, COPY, PASTE, DELETE, RENAME and NEW FOLDER operations. To perform any action which are given, a user only needs to click on the respective button.

Benefits

This application happens to have the minimal system requirements and hence will work with almost all basic configurations. It also has these following advantages:

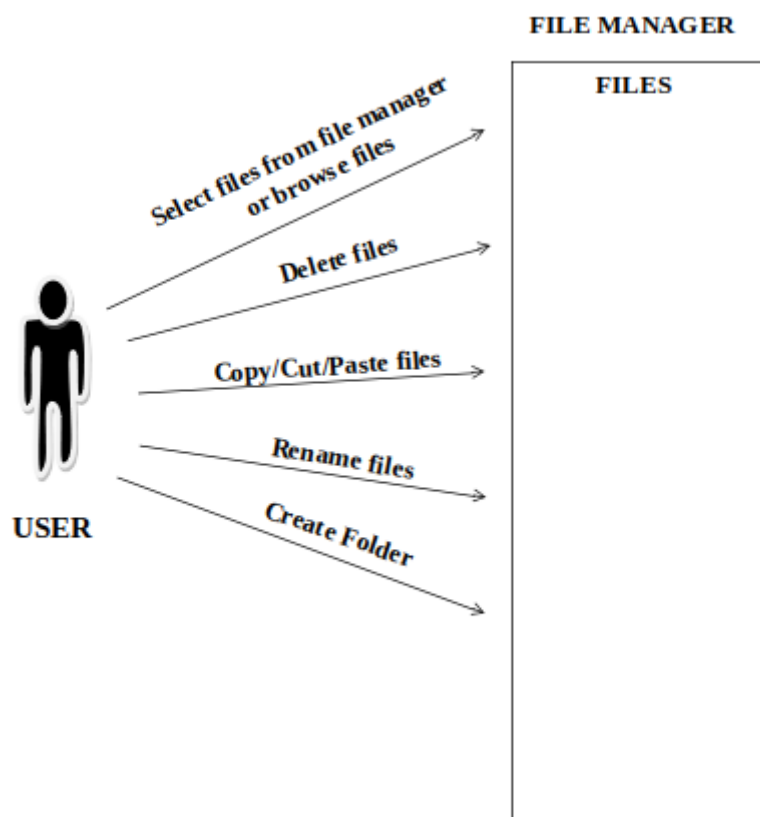
- Minimal time used for all services
- Fluid Folder Navigation
- Ensures greater efficiency
- Provides better service
- One software for both the platforms i.e. Windows and Linux

Methodology

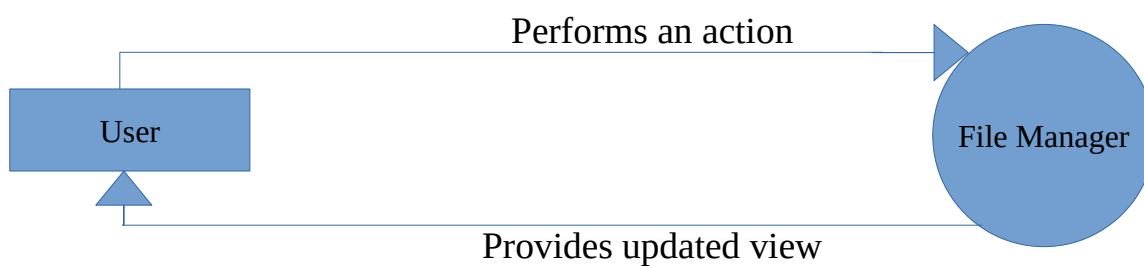
This program allows the user to perform following given actions:

- Move file or sub-folder from one folder to another
- Copy file or sub-folder from one folder to another
- Delete a file or folder
- Rename a file or folder
- Create a new folder

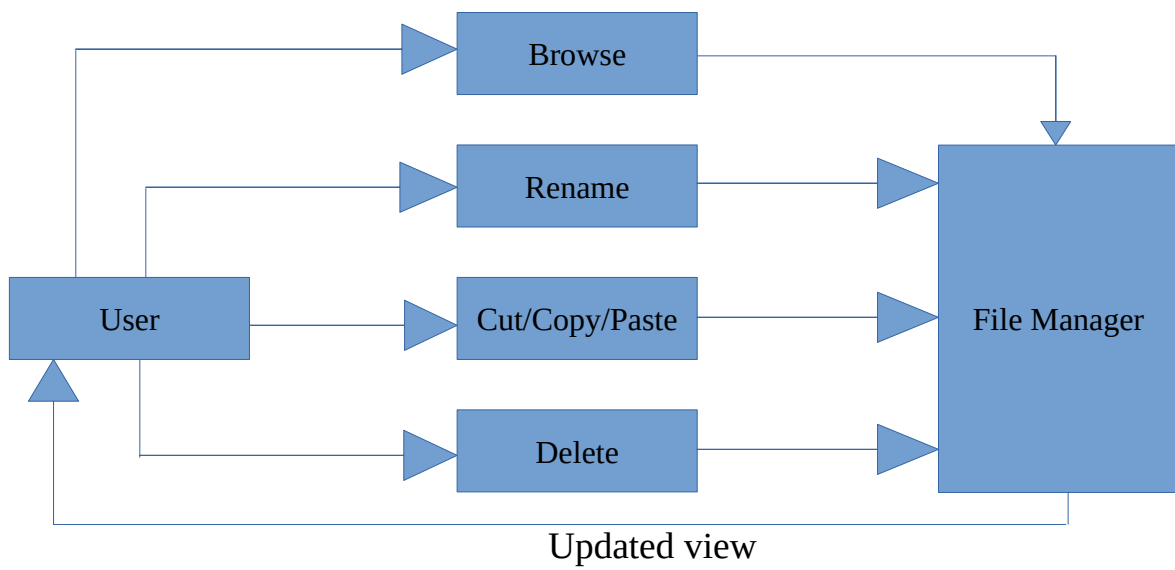
Diagrams



DFD Diagram

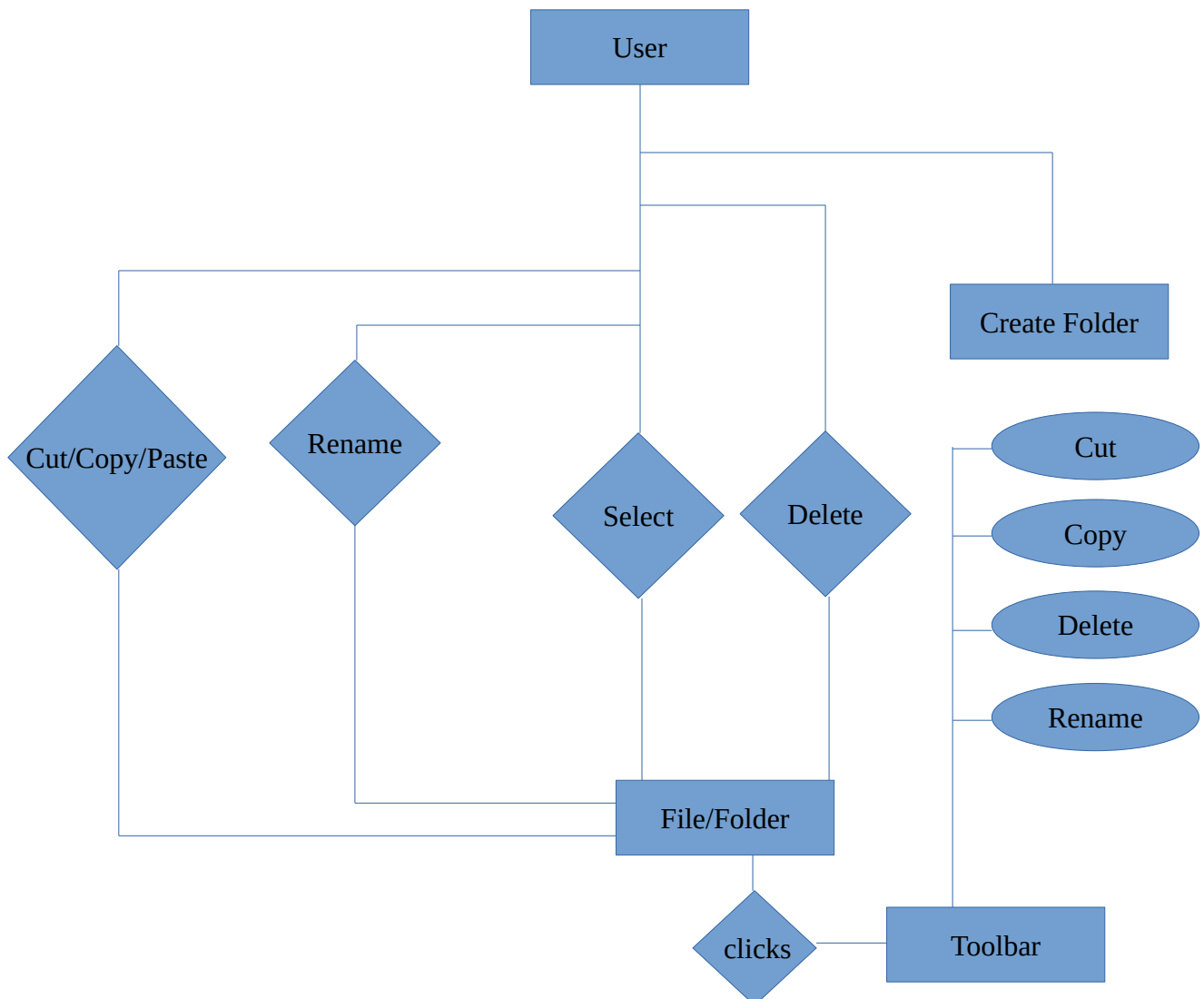


Level 0



Level 1

ER Diagram



Technologies Used

The following Python modules have been used to create this project:

tkinter: Tkinter is the standard GUI library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications. Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit. Creating a GUI application using Tkinter is an easy task.

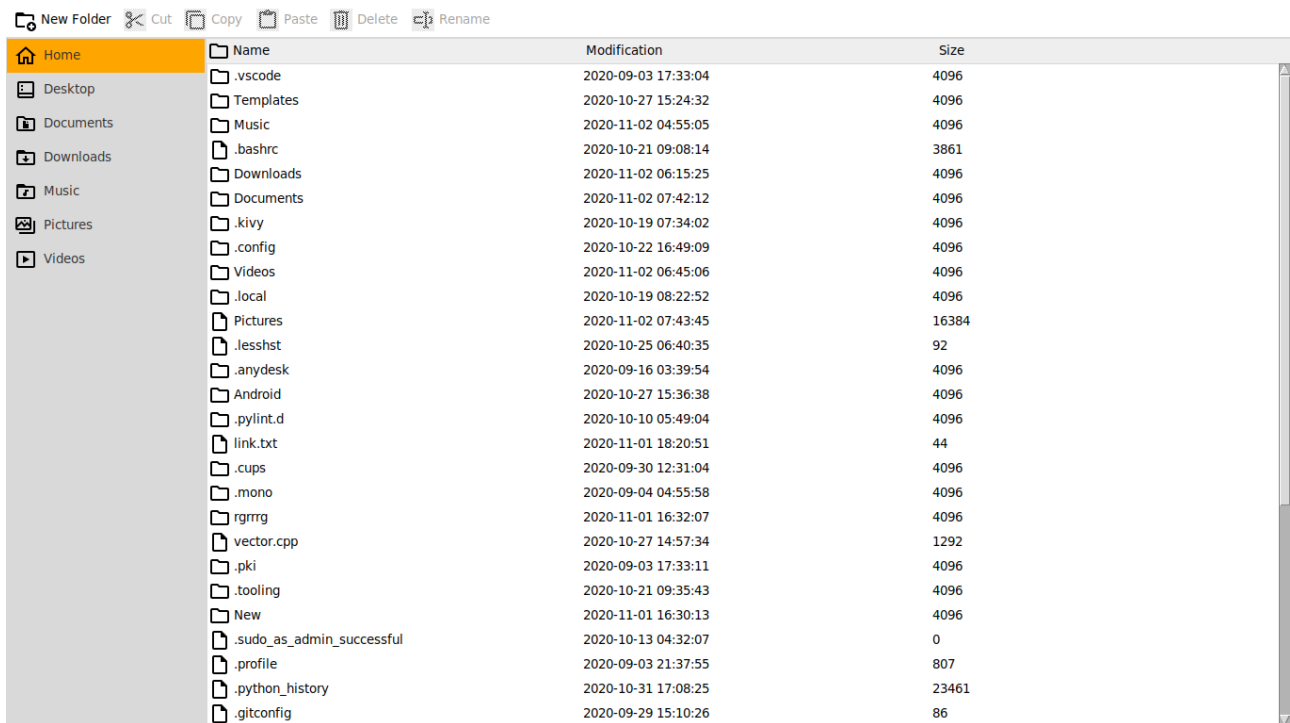
os: The OS module in Python provides functions for interacting with the operating system. OS, comes under Python's standard utility modules. This module provides a portable way of using operating system dependent functionality. The `*os*` and `*os.path*` modules include many functions to interact with the file system.

send2trash: Send2Trash is a small package that sends files to the Trash (or Recycle Bin) natively and on all platforms. To install it type the below command in the terminal. This module was required for the reason that **os** module deletes the file or folder permanently.

threading: The threading module provides a very simple and intuitive API for spawning multiple threads in a program.

Screenshots

Homepage

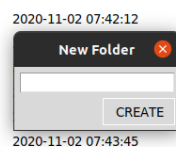


This is the page we encounter every time we run this app. By default, only 'New Folder' button is enabled.

On the left, we have some preset folder, they never change and takes us to the respective user's folder.

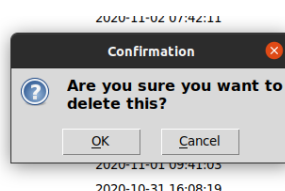
On the right, all the files and sub-folders of a certain folders are displayed. If user clicks on any of them 'Cut', 'Copy', 'Rename' and 'Delete' options gets enabled too.

New Folder Window



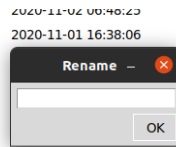
Every time we click on 'New Folder' button, this window is displayed which allows us to create a folder by entering its name. No folder is created if close control is clicked.

Confirm Delete Prompt



Every time we attempt to delete a file or folder, we are prompt with a confirmation messagebox as displayed above. As expected, **OK** deletes the file and **Cancel** halts the action.

Rename Window



This window is displayed when we attempt to rename a file or folder. It raises an error if name is invalid or file/folder with same name is already present.