File Sorting Application

Introduction:

This application in made in Python which will sort files of any folder of your computer system according to their extensions and will place them into their specific folders by creating different new folders.

Objective and Scope:

This application is based on a real life problem which all of us face during operating our computer systems. While working on different types of files user may find it difficult to search a particular type of file. so this application is used to sort files of your computer system according to their extensions (.jpg, .mp3, .mp4, .txt, etc) and then will place it accordingly into their specific folders. So it will help the user to get all images, audios, videos, text file and other documents it their respective folders separately.

Process Description:

When user gives the path of the folder which contains many files of multiple extension, this application will create some new folders like Images, Audios, Videos, Documents, etc into the given folder and will place the files of given folder into the new folders created by the application.

It will find out all the extensions used for images and will place them into image folder.Similarly it will find out all the files of videos and documents by checking their extensions and will place them into the new created folders.

It will also calculate total number of files, number of images, audios, videos, documents that are in the given folder.

Technology Used:

Python.

Why Python:

Python is a high level language which is easy to understand and is portable. Its large and robust standard library makes Python score over other programming languages.

The standard library allows you to choose from a wide range of modules according to your precise needs. Each module further enables you to add functionality to the Python application without writing additional code.

Testing Methods:

1. Unit Testing

It focuses on smallest unit of software design. In this we test an individual unit or group of inter related units. It is often done by programmer by using sample input and observing its corresponding outputs.

2. Integration Testing

The objective is to take unit tested components and build a program structure that has been dictated by design. Integration testing is testing in which a group of components are combined to produce output.

3. Alpha Testing

This is a type of validation testing. It is a type of *acceptance* testing which is done before the product is released to customers. It is typically done by QA people.

4. Beta Testing

The beta test is conducted at one or more customer sites by the end-user of the software. This version is released for the limited number of users for testing in real time environment

Limitations:

It will only work on the computer systems where python environment is set up.

Conclusion:

It will give user a sorted folder containing different folders in it named Images, Videos, and Audios etc.