WELCOME TO OUR IT WORLD

Introduction:

Project Assist by:

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OUR GOAL:

The main objective of our project is to elevate Pakistan's IT sector and support different departments of the country. It's a practical application designed to streamline tasks, often referred to as automation tasks, to make operations smoother.

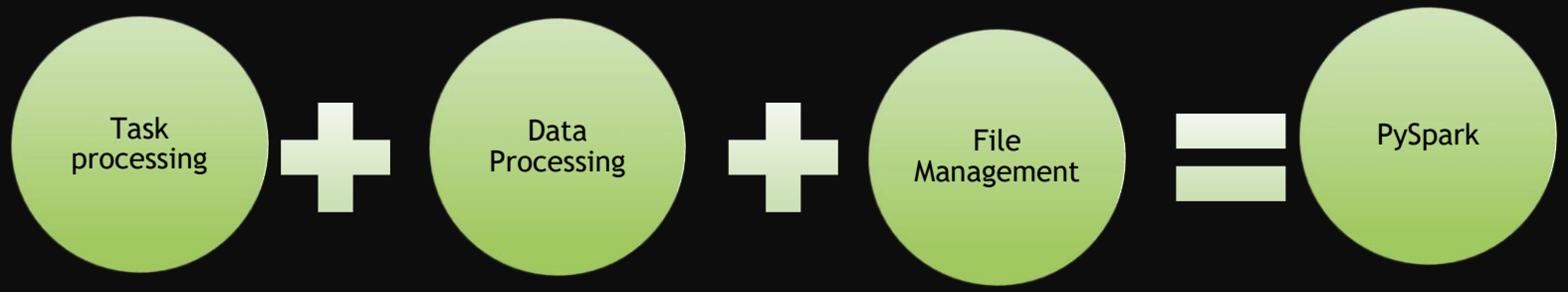
PROJECT:

AUTOMATION TASK APPLICATION
or
Task Manager

ABOUT THE PROJECT:

The collaborative project focuses on developing a software application that utilizes Python functions to perform a variety of tasks. It leverages the operating system (OS) for existing systems and includes an infinite loop with conditions, along with formulas and functions. More details will be discussed later.

We developed a program application that performs certain tasks using PySpark:

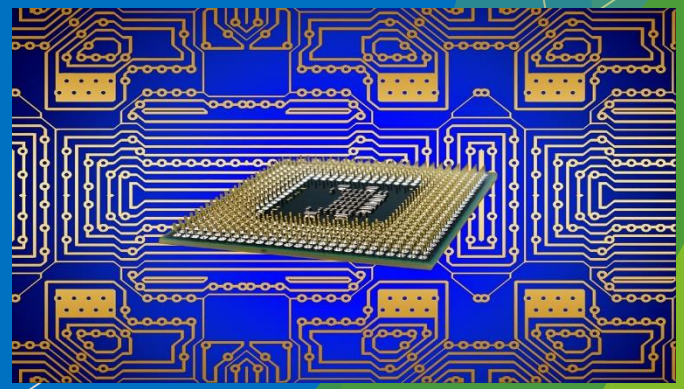


1)Task Processing:

In Task Manager we have to save tasks to a file (save_task) and display all saved tasks (display tasks). The main function provides a user interface through which tasks can be added, displayed, or the program can be exited. The program uses a loop to continuously prompt the user for input and execute the corresponding actions based on the user's choice. The tasks.txt file is used to store the tasks, and the program utilizes the open function with the a mode for appending tasks and the r mode for reading tasks from the file. The loop runs infinitely until the user chooses to exit the program, as indicated by the break statement.

Data Processor:

For the Data Processor part of the code, we have functions to save data to a file (save_data) and display all saved data (display_data). The main function provides a user interface through which data can be added, displayed, or the program can be exited. The program uses a loop to continuously prompt the user for input and execute the corresponding actions based on the user's choice. The data.txt file is used to store the data, and the program utilizes the open function with the “**a**” mode for appending data and the “**r**” mode for reading data from the file. The loop runs infinitely until the user chooses to exit the program, as indicated by the break statement.



File Management

In the File Management section, our program provides functionalities to manage files and interact with the operating system. We achieve this by utilizing Python's built-in os module, which allows us to access various file operations and system functions. The write to_file function enables us to write content to a specified file, ensuring that the content is saved successfully. We use the show_all _files function to list all files in the current directory, providing an overview of available files for the user. Additionally, the view_file_content function allows us to view the content of a specific file by reading its content and displaying it to the user. We handle potential errors, such as a file not being found, using exception handling. The main function serves as the program's entry point, presenting a menu for users to choose from different file management options. By utilizing a loop, the program continues to prompt the user for input until they choose to exit, ensuring a seamless user experience.

Pyspark

- PySpark is the Python API for Apache Spark, an open-source, distributed computing system used for big data processing and analytics. PySpark allows you to write Spark applications using Python APIs and provides an interface for interacting with Spark programs. It enables you to harness the power of Spark's distributed computing capabilities to process large datasets efficiently. In your code, you used PySpark to perform certain tasks, although the specific tasks were not detailed in the provided code snippets.

COURSE FEEDBACK

Our journey into the realm of Computer Information Technology (CIT) with a focus on Python, under the expert guidance of Miss Sumbul, a highly proficient CIT instructor, has concluded. Miss Sumbul adeptly navigated us through the intricate facets of CIT, ensuring a thorough comprehension. Their journey commenced with a comprehensive exploration of three fundamental topics: Microsoft Word, Microsoft Excel, and PowerPoint. The intricacies of these applications, including usage strategies and feature nuances, were seamlessly instilled in their minds. Miss Sumbul's teaching approach was not only enlightening but also imbued a deep understanding of the subjects. All praise goes to the banoqabil program, Hafiz Sahab, and their respective team for their outstanding effotrs.

THANK YOU!