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Abstract—"PC Logger - Tool for System Monitoring and Reporting" is a Python-based tool that monitors and reports system information for multiple PCs. A Python script runs on each PC, collecting information such as RAM, HDD, and OS version. The script sends the data to a Django server, which stores it in a database. A Django app displays the PC information to the user, and a dashboard displays critical alerts. The project requires knowledge of Python, Django, network programming, and database management, and is intended for use by system administrators.
Keywords—Pc Logger, Pc info, etc.

I. INTRODUCTION

The In the age of the internet, digital communication has become an integral part of our lives. However, with the increasing use of online communication comes the need for secure and private messaging platforms. To address this concern, this project aims to develop a Python-based tool that monitors and reports system information for multiple PCs.

The tool involves creating a Python script that collects data such as RAM, HDD, and OS version and sends it to a Django server for storage in a database. A Django app displays the PC information to the user, and a dashboard displays critical alerts.

This project requires expertise in Python, Django, network programming, and database management and is intended for use by system administrators to monitor and report on system information.

II. PROBLEM STATEMENT

As technology continues to advance, the importance of monitoring and reporting system information for multiple PCs cannot be overstated. With the increase in the number of PCs in a network, it becomes challenging for system administrators to manage and maintain these systems. Without a reliable system for monitoring and reporting, administrators may fail to identify potential issues, resulting in system downtime or data loss.

The current tools available for monitoring and reporting system information lack user-friendly interfaces and may not provide sufficient features for efficient system management. This poses a significant challenge for system administrators, who must manage multiple systems simultaneously.

The project aims to address the challenge of system management by providing a reliable and user-friendly tool for monitoring and reporting system information for multiple PCs.

III. PROPOSED FEATURES

The proposed project aims to develop a PC Logger - Tool for System Monitoring and Reporting.
The following are the proposed features of the application:

1. System Information Collection:
The application will collect information such as RAM, HDD, OS version, etc., periodically using standard Python libraries such as psutil and platform.
2. JSON File Compilation and Transfer:
The collected system information will be compiled into a JSON file and sent to the Django server using an HTTP request.
3. Django Server and Database Management:
The Django server will receive the JSON files and store the information in a database. It will have an endpoint that accepts POST requests with the JSON data.
4. PC Information Display:
The Django app will display the PC information stored in the database. It will have a search feature **that allows users to enter an IP address and retrieve** the PC information associated with that address.
5. Dashboard for Critical Alerts:
The application will have a dashboard that displays critical alerts such as changes in physical RAM, HDD, and OS version. The dashboard will use Django's built-in admin interface to display the alerts.
IV. METHODOLOGY
The proposed project, PC Logger - Tool for System Monitoring and Reporting, aims to be developed using the following methodology:
1. Requirements gathering: The first step will be to gather the requirements for the application. This will involve identifying the features that the application will have and the technologies that will be used to implement them.
2. Design: After the requirements are gathered, the design of the application will be developed. This will include creating a block diagram to illustrate the overall flow of the project.
3. Implementation: Once the design is complete, the implementation phase will begin. This will involve writing the code for the application using Python and implementing the necessary libraries and APIs.
4. Testing: After the implementation is complete, the application will be thoroughly tested for its functionality and accuracy of data collection.
5. Deployment: Once the application has been tested and all bugs have been fixed, it will be deployed and made available for use.
6. Maintenance: The application will be maintained **and updated regularly to ensure that it continues to function properly and to address any issues that may** arise. Additionally, new features may be added to the

application based on user feedback and evolving needs.

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5. Deployment: Once the application has been tested and refined, it can be deployed to the Google Play Store or another distribution channel.5. Deployment: Once the application has been tested and refined, it can be deployed to the Google Play Store or another distribution channel.

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