

Group 23

PC Logger - Tool for System Monitoring and Reporting

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Indroduction

- PC Logger is a Python-based tool for monitoring and reporting on PC systems.
- It collects information about a PC's hardware and software components and sends it to a Django server. The data is stored in a database and displayed to users using a Django app.
- With its search feature and dashboard, PC Logger is an efficient solution for IT professionals and system administrators.

Problem Statement

- As the complexity and number of applications running on a system increases, it becomes challenging to monitor and manage system resources effectively.
- Traditional methods of system monitoring are inadequate for identifying performance issues and potential security threats.
- A need exists for a tool that can log and report on system activity in real-time, providing detailed insights into system performance and user activity. This is where PC Logger comes in.

Literature Review

- Previous research has highlighted the need for efficient system monitoring and reporting tools.
- Various tools have been developed to aid in this process, However, many of these tools require a significant amount of setup and configuration, making them unsuitable for small to medium-sized businesses.
- The PC Logger project provides a cost-effective solution to this problem, using Python and Django.
- The project's use of standard Python libraries ensures accurate and efficient collection of system information.

Limitations

- Limited Scalability: The PC Logger tool is primarily designed for small to medium-sized businesses, and may not be suitable for large-scale enterprise systems.
- Limited functionality: No advanced features like real-time monitoring, alerting or remote access.
- Reliance on network stability: Requires a stable network connection to communicate between PC clients and Django server.

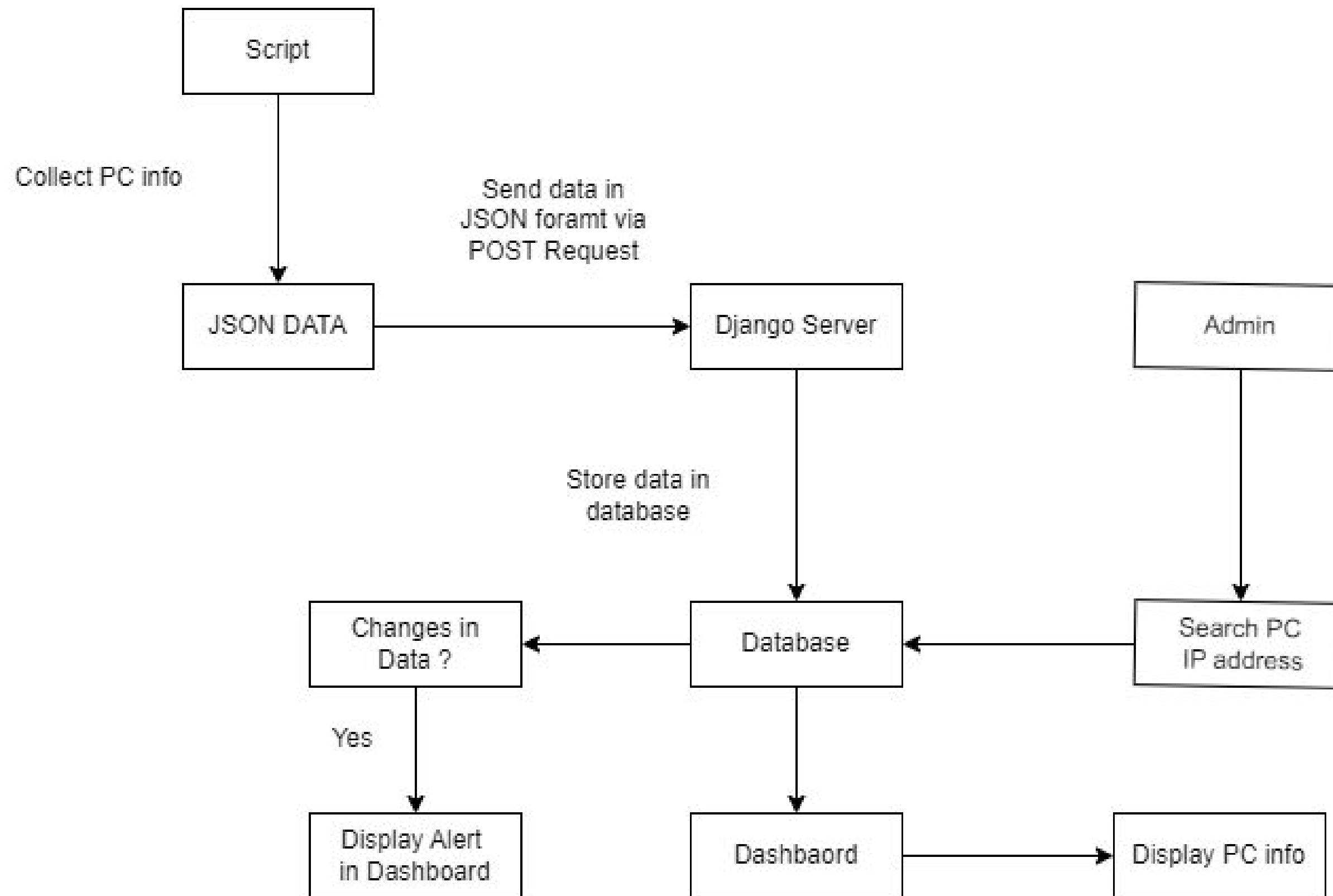
Overcome:

- To overcome the limitation of limited scalability and of the PC Logger tool, businesses can consider alternative tools, implement a distributed monitoring architecture, optimize system performance, and upgrade hardware and software.
- These strategies can help ensure that the tool is effective in monitoring and reporting on system performance for large-scale enterprise systems or across different operating systems or hardware configurations.

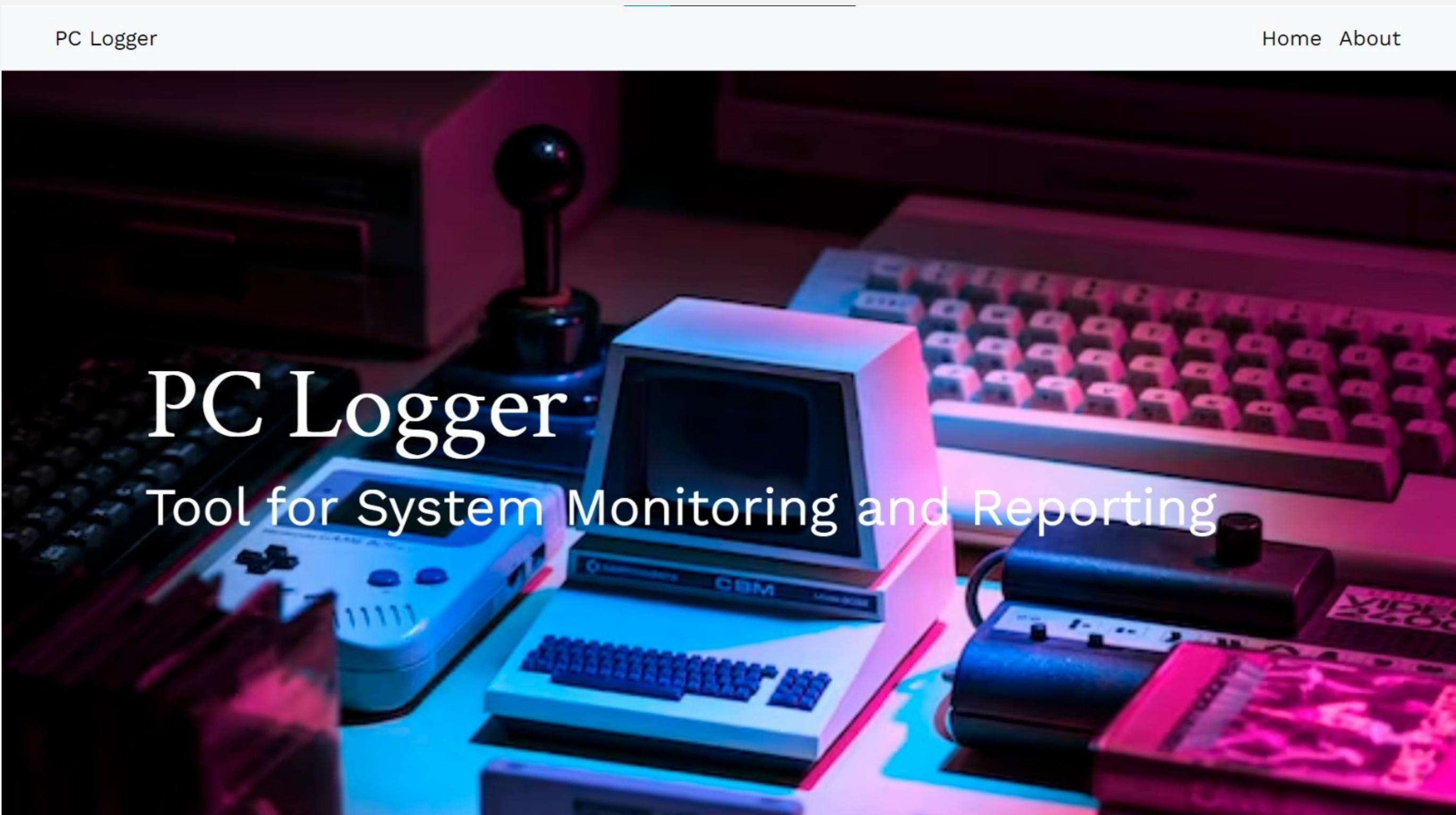
Project Proposal

- The purpose of this project proposal is to implement the PC Logger tool for system monitoring and reporting in an organization.
- The PC Logger tool is designed to help businesses monitor and report on the performance of their systems, providing real-time insights and alerts to help ensure optimal performance and minimize downtime.

Block Diagram



Output:



Output

The screenshot shows a web-based application titled "PC Logger". The header includes a logo on the left, a search bar, and navigation links for "Home" and "About". The main content area features a search form with a placeholder "Search for PC by IP address:" and a "Search" button. Below this is a red alert box titled "Alerts" containing two items:

- 192.168.0.193 HDD capacity changed from 476.08 to 576.08.
- 192.168.0.191 RAM capacity changed from 7.45 to 7.35.

The background of the page has a blue hexagonal grid pattern with white dashed lines and several large, semi-transparent triangles in blue, orange, and yellow.

Output

PC Logger

Home About

Search for PC by IP address : 192.168.0.192

OS	Version	RAM	HDD	IP Address	Timestamp
Windows	10.0.22621	7.35	476.08	192.168.0.192	April 8, 2023, 6:12 p.m.
Windows	10.0.22621	7.35	476.08	192.168.0.192	April 8, 2023, 6:12 p.m.
Windows	10.0.22621	7.35	476.08	192.168.0.192	April 8, 2023, 6:12 p.m.

Conclusion

- The PC Logger project is a powerful tool for system monitoring and reporting, providing users with valuable insights into their PC performance and critical alerts.
- The project has been successfully implemented using Python and Django, and its architecture allows for easy scalability and customization.
- Overall, the PC Logger project serves as a strong foundation for the development of a robust system monitoring and reporting tool that could be used in a variety of industries and applications.

Thank You !