# OS Programming Project Report (Resource Monitor Using Python)

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Group – A6

#### **Project overview:**

- Our group used Python to create a dynamic resource monitor.
- Monitoring Disk, Network Usage, System Boot Time, and Top Processes are the project's main objectives.
- We also developed a simple front-end to display all this data on a single page, making it easier for users to get crucial statistics in a single, convenient spot.

### How the group has managed to complete the project -

- Team members were assigned equal duties to guarantee the project's effective and successful completion.
- Throughout the process, the group held several talks to hone ideas.
- Every team member assumed responsibility for the individual tasks allocated to them.
- Ultimately, the culmination of everyone's efforts produced the finished product.
- The timely completion of this project was made possible by the team's diligent work and consistent communication.

#### <u>Problems you faced –</u>

- The psutil library, being new to me, required frequent reference to its documentation to grasp its functionalities.
- Complexity of the user interface

#### Places you found the solution -

- Front-End Development Resources: https://frontendmasters.com/
- https://medium.com/analytics-vidhya/flask-development-part-3-file-structure-68e3bf2f6642
- https://realpython.com/flask-javascript-frontend-for-rest-api/
- MDN Web Docs: https://developer.mozilla.org/

## **Group Members Contribution Towards the Project**

1) Shreyas Shende:

Primarily focused on the Python part, utilizing the psutil package to gather necessary information for the project. Assisted in the integration of the frontend and backend using Flask.

2) Abhiraj Gupta:

Major contributor to the Flask integration and helped with JavaScript implementation.

3) Ayush Dewan(me):

I did the front-end development.

4) Gaurav:

Worked extensively on the front-end in collaboration with me.

## Name of teammate who submitted the Project:

Shreyas Shende (ss4897)