

SysPerf : A system performance monitor for Linux

0 | Project Info

- Name : SysPerf
- Group number : 4

Team Members :

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1 | Project description

SysPerf is a new proposed project aiming to achieve impressive monitoring system information in few short sprints. SysPerf is more of a hobby project and complies with the open source nature of Linux. With SysPerf all developers and users alike can have a single go to tool for monitoring their system performance. Some of the initial functional requirements planned are :

- A friendly TUI interface.
- Providing the tool through all famous package managers.
- Seeing memory, CPU and disk usage. Seeing core specific usage.
- List all processes with specific usage.

2 | The plan

- We plan to finish this project in 2 short sprints (8 weeks).
 - This project is split into 2 phase (modules), this fits well into our 2 sprints and helps splitting work amongst us.
 - The first sprints start with spending a short while on requirements, research and tool setup.
 - The remaining weeks of sprint 1 is spent in creating the various modules that communicate with the kernel and provide an interface for the TUI to display.
 - Each person in the team takes up a module to implement, we will have the regular scrum meetings every 3 days to make sure we have a consistent interface and progress goes on as usual.
 - As this is a systems based *tool* we will not have any database, but other functional requirements are as follows :
 - Single threaded application
 - TUI, with stat testing
 - Unit testing is being made the standard.
 - Buffering stats for upto 30 seconds
 - In sprint 2, we will start working on TUI. Here 1 of the team mates manages the structures of the TUI and the rest connect the previously mentioned interface to the TUI structures.
 - As for qualitative requirements, we have the following in mind :
 - No sudo perms to run the frontend
 - Being very responsive
 - Neat TUI with minimal configurations
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