High Level CPU Scheduler

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Overview

We wanted to do a proof of concept for our final project and we were stuck between something as difficult as Yalnix and choosing something too easy so after a while of deciding we settled on creating a high level application where we can show the functions of a CPU scheduler in a high level setting such as through a web page. The language we are choosing to work with this is Python because we do not want to be restricted by the language we choose. You could argue that Python is less powerful and slower than C but we are not worried about speed or efficiency for our final project but rather understanding what is really going on under that hood of an operating system. The CPU scheduler is the core of an operating system and without it jobs would be all over the place, so we want to take that idea and abstract it to a higher level to make it more digestible for your more average user. This is probably not your typical OS project but after we get the course system figured out we want to turn it into a dynamic application or web-app where a user can interact with it and schedule jobs running with different scheduling algorithms to get a feel for how the system actually works. As possible stretch goals for our project we would like to directly compare different methods of CPU scheduling and see how they stack up to one another. Some examples of this would be implementing a round robin scheduler or priority scheduling.

Schedule

Planned Goal	Date
Begin designing our PoC	10/27/20
Have working Prototype	11/1/20
Rough Draft of Technical Report	11/5/20
Finish our program	11/9/20
Final Draft done for Technical report	11/10/20
Create Presentation	11/13/20
Practice and present our presentation	11/14/20
Turn everything in	11/15/20

Division of Labor

We would like to have everything evenly distributed amongst each-other.

Kade and Nolan plan to work on the project every Tuesday and Wednesday while Alex will help out after work. We decided that we wanted to keep this kinda free form and just help when we can and have excellent communication between each other.