



Process Manager

Project 2

Harsh Bhatt

Professor Yan

Operating Systems

TR 02:30 pm - 04:15 pm

Overview

Process management is a vital component of operating systems. A process is an active entity that needs resources in order to accomplish its task. The job of the Operating system is to allocate and reclaim any reusable resources on process termination. The operating system is responsible for both creating and deleting user and system processes, suspending and resuming processes, and providing mechanisms for process synchronization and communication.

Goals

1. List current processes.
2. Kill processes.

Specifications

The OS level functionality of this application is clear due to how it is essentially mimicking the OS process management role. I plan to use ListView and ListViewAdapter to display my processes. One API I plan on utilizing Process.killProcess(int pid) to select which processes to kill based on the process ID. The other API I plan on utilizing is ActivityManager.killBackgroundProcesses(String packageName). This API would help me get around the need for having the UIDs of the processes to match, but I would need the user to accept the KILL_BACKGROUND_PROCESSES permission.

Overall

This application gives the user an easy and convenient way of managing process on their android device.