**MINOR PROJECT 1**

**SYNOPSIS**

**ON**

**Sort-it-out:A Linux File Sorter**

**Submitted By**

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| --- | --- | --- | --- |
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**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**Dehradun-248007**

**Month- 2018**

**Project Title: Sort-it-out:A Linux File Sorter**

***Abstract:***

**Introduction:**

Linux system involves 7 processes in it booting and has various commands through which we can sort files once the system booting is done.But Sorting of files after the booting process is complete is important for the system to be more informative. When we navigate through Linux file system we must be sure about the file types, then according to the type of extensions the file should be automatically stored at its specific location.This is what our project is all about.

Linux booting process involves several stages and components. By the means of a boot loader the kernel starts and then the hardware is initialized by the BIOS. After this stage the boot process is handles by the operating system itself.

Once the system is turned on the BIOS initializes the screen and the keyboard and also performs the testing for the main memory. The boot loader resides in the main memory and determines how much part of the boot process is left. To pass system control, the boot loader loads both the kernel and an initial RAM–based file system (initramfs) into memory. The contents of the initramfs can be used by the kernel directly. Init handles the booting process of the system through different levels by providing different functionalities.

**Literature Review:**

**Problem Statement:**

**Objectives:**

**Methodology:**

**System Requirements: (Software/Hardware)**

**Schedule: (PERT Chart)**

Structural Design and pseudo code

Duration:1 week

Start date: 17.09.2019

End date: 24.09.2019

System Requirement Analysis and Review

Duration: 2 week

Start date: 02.09.2019

End date: 16.09.2019

Study of Linux booting process and file sorting

Duration:1 week

Start date: 25.08.2019

End date: 1.09.2019

Coding

Duration:1 week

Start date: 03.10.2019

End date: 10.10.2019

Algorithm Analysis

Duration: 1 week

Start date: 25.09.2019

End date: 02.10.2019

Testing (Accuracy)

Duration: 2 weeks

Start date: 11.10.2019

End date: 25.10.2019

Comparative Study

Duration: 1 week

Start date: 26.10.2019

End date: 01.11.2019

Final Report Generation

Duration:1 week

Start date: 10.11.2019

End date: 17.11.2019

Implementation and System Testing

Duration: 2 weeks

Start date: 02.11.2019

End date: 09.11.2019

**References:**

**\*** Whole Documents should not be more than 7 pages excluding Front Page

\* The Front should contain Project Name, Partial Submission for Minor, Students name, Enrollment No, SAP Id no, Mentor Name

\* References should have indexing and refer them in your synopsis wherever necessary.

\* Delete the lines under each section and put your related project’s information related to that section in place of them, also delete these 4 lines starting with “\*”.

**Approved By**

**Signature Signature**

**mentor\_name Dr. Monit Kapoor**

**Mentor Head of Department**