

IE2050-Operating Systems 2024

Assignment

Objective

The objective of this assignment is to deepen students' understanding of operating systems by critically analyzing research papers related to operating systems. Students will work in **groups of maximums up to four members** to analyze the system hardware requirements, installation process, user interfaces, process control, memory management, deadlock management, secondary disk scheduling management, standard support, etc., and present their findings in a comprehensive report.

Instructions

1. Form a group of up to four members and register your group by adding your details to the shared excel sheet available on the CouseWeb before 7th April 2024.
2. Identify and read one recent research paper (published within the last five years) related to an operating system. Ensure that the paper is from a reputable source (e.g., ACM, IEEE).
3. **No two groups can select the same research paper/topic.**
4. Analyze the paper thoroughly.
5. Write a detailed analysis report that includes:
 - A brief introduction.
 - Summaries of the research paper, highlighting key points.
 - A comparative analysis of the operating system based on the information gathered from the research paper.
6. Format your report according to the guidelines provided.
7. Prepare a presentation of your findings and analysis, which you will present during a viva.
8. The viva will include questions from the instructor based on your report and presentation.

Submission

Submit your group's analysis report to the specified submission link by 28th April 2024. Clearly indicate the names and SLIIT IT Numbers of all group members.

Guidelines for the Report

Your completed document should meet the following requirements:

1. Table of contents for every detailed chapter/ section.
2. Workload Matrix (breakdown of tasks among the members as per the topic).
3. Main Document (structured into chapters/ sections)
4. Limitations/ extensions to the case study.
5. Appendices (Data Charts, Images)
6. References (use IEEE referencing format)
7. Word Limit- 2000 words

Please Note

1. All submissions are online as a softcopy.
2. Any late submissions after the deadline will not be entertained. A zero (0) mark will be awarded for late submissions unless extenuating circumstances are upheld.
3. Plagiarism is a serious offense and will automatically be awarded a zero (0) mark if the plagiarism count exceeds 20% (including references).