PROJECT NAME – OSConcepts

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Project Type –Software + deployment website

Project Guide – Mr.Rajkumar Mohanta

Student level - undergraduate

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INTRODUCTION

It is software which is mostly beneficial for students and Teacher who wants to practically implement the theoretical methods to gain more clarification and give more knowledge to students respectively.

This Software represents the Theoretical Concepts into Practical implementation with a user friendly GUI.

PROBLEM STATEMENT

To create free educational software using java and java swing. To demonstrate and verify basic OS concepts such as – Process Scheduling

1. FCFS
2. SRTF
3. SJF
4. Round Robin
5. Non-preemptive Priority
6. Preemptive Priority

-Process synchronization

1) Producer consumer Problem

2) Readers writers Problem

3) Dining Philosopher Problem

-Page replacement algorithm

1) LIFO

2) LRU

3) Optimal

-Deadlock

1) RAG

2) Wait for graph

3) Banker’s algorithm

Methods

1. SDLC process
2. Front end by java swing
3. Programming logic -java
4. Backend – Database (JDBC)
5. Web technology –HTML,CSS,JAVASCRIPT,BOOTSTRAP
6. Web domain and hosting-AWS

Result

It shows the basic idea about OS concepts (which are mentioned above).That means Audience can see the practical implementation of OS concepts like For Scheduling algo. It shows the Gantt chart and detailed form.

Conclusion

Targeted audience – Students and teachers who have some basic knowledge about OS concepts.

Benefits – Practical implementation of Theoretical Concepts

* GUI
* Publicly accessible
* It is like evolutionary software so we can add more features in future.