CANALYS

TIME IS IN YOUR POCKET

**7. Results and Discussion**

**7.1 Presentation of Results**

**7.1.1 Statistical Analysis of Scheduling Efficiency and Performance**

* Detailed statistical analysis of the scheduling algorithm's efficiency in terms of time complexity.
* Performance metrics, including the algorithm's execution time for various input sizes.
* Evaluation of resource utilization, highlighting memory usage and processor load during scheduling operations.

**7.1.2 Metrics such as Response Time and Resource Utilization**

* Measurement of system response time under varying loads and user interactions.
* Analysis of resource utilization metrics, emphasizing the system's ability to handle concurrent scheduling requests.
* Comparison of response times for different scenarios, such as scheduling conflicts or resource-intensive calculations.

**7.1.3 Visual Representations of Data, such as Graphs or Charts**

* Generation of visual aids, such as line charts or bar graphs, to illustrate scheduling efficiency trends.
* Graphical representation of resource utilization over time, aiding in the identification of potential bottlenecks.
* Visualization of algorithmic performance improvements through comparative graphs.

**7.2 Comparison with Existing Solutions**

**7.2.1 Objective Evaluation Against Identified Existing Solutions**

* Objective assessment of the developed system against identified existing scheduling solutions.
* Benchmarking against key performance indicators, such as scheduling accuracy and computational efficiency.
* Comparative analysis of features and functionalities to showcase the project's strengths.

**7.2.2 User Feedback and Satisfaction Metrics**

* Collection and analysis of user feedback through surveys, interviews, or usability testing.
* Metrics related to user satisfaction, including ease of use and perceived improvements in scheduling efficiency.
* Qualitative insights into user experiences and preferences.

**7.2.3 Differentiation Based on Unique Features or Improvements**

* Identification and discussion of unique features introduced by the developed scheduling system.
* Highlighting improvements over existing solutions, emphasizing user-centric enhancements.
* Comparative differentiation based on innovation, usability, and adaptability.

**7.3 Discussion on Effectiveness of the Algorithm**

* In-depth discussion on the effectiveness of the scheduling algorithm in meeting project objectives.
* Consideration of algorithmic strengths and potential areas for refinement.
* Integration of user feedback and real-world scenarios to validate the algorithm's practical applicability.