

PERFORMANCE AND FINAL SUBMISSION PHASE

MODEL PERFORMANCE METRICS:

1. Reliability and Uptime:

Measure the application's uptime and reliability. Aim for a high uptime percentage (e.g., 99.9%) to ensure that the system is available when needed.

2.Response Time:

Evaluate the application's response time for various actions, such as loading student profiles, generating reports, or processing payments. Short response times are essential for a smooth user experience.

3.Scalability:

Assess how well the application handles increased usage and data volume. It should scale efficiently to accommodate a growing number of users, students, and staff.

4. Security:

Ensure that the application is secure. Measure the number of security incidents, successful logins, and the effectiveness of access control mechanisms. You should also monitor and respond to security breaches.

5.User Satisfaction:

Collect feedback from students, teachers, and administrators to gauge their satisfaction with the application. Use surveys or feedback forms to gather insights.

6.Error Rate:

Monitor and track the number of errors or bugs encountered by users. Aim to keep this rate low by addressing issues promptly.

7. Performance under Load:

Test the application's performance under heavy loads to identify bottlenecks and weaknesses. Load testing helps ensure that the system can handle peak usage without degradation.

8.Data Integrity:

Verify that the application maintains data integrity by preventing data corruption and ensuring that data is accurate and up-to-date.

9.Resource Utilization:

Monitor the application's resource usage, such as CPU, memory, and storage. Efficient resource utilization is crucial for cost-effectiveness and performance.

10. Compliance:

Ensure that the application complies with relevant regulations and standards, such as data protection laws (e.g., GDPR) and educational institution-specific requirements.

11.User Accessibility:

Evaluate the accessibility of the application, making sure it's usable by people with disabilities in compliance with accessibility standards like WCAG.

12.Feedback and Bug Resolution Time:

Track the time it takes to address user feedback and resolve reported bugs. Faster resolution times lead to improved user satisfaction.

13.Update and Maintenance Frequency:

Keep track of how frequently updates and maintenance tasks are performed to ensure the application remains up to date and secure.

14. Cost Efficiency:

Analyze the overall cost of maintaining and operating the application. Look for opportunities to optimize costs without compromising performance or functionality.

15. Integration Effectiveness:

Assess the ease of integrating the school management system with other tools and systems used in the educational institution.