MODEL PERFORMANCE METRICES

Date	4 November 2023
Team ID	NM2023TMID10148
Project Name	How to Create a Brand Promo Video using Canva.

➢ Evaluating the performance of the solution for creating a promo video using Canva's API involves measuring various metrics to ensure the system functions effectively. Here are some key performance metrics you can consider:

➢ Execution Time: Measure the time it takes to complete the entire process of creating a promo video, including API requests, file processing, and any other tasks. This metric helps assess the system's responsiveness.

➢ API Response Time: Track the time it takes for Canva's API to respond to your requests. Monitoring this metric is crucial for ensuring that your application doesn't experience significant delays.

➢ Error Rate: Calculate the rate at which errors or exceptions occur during the execution of the application. A lower error rate indicates better stability.

➢ Throughput: Evaluate how many promo videos your application can create in a given time frame. This metric can help assess the system's efficiency and capacity.

➢ Resource Utilization: Monitor the utilization of system resources, such as CPU, memory, and network bandwidth, to ensure that the application doesn't overload the server or local machine.

➢ Concurrency and Scalability: Measure how well the system can handle multiple concurrent requests. Test the system's scalability by gradually increasing the workload and observing its performance.

➢ API Rate Limiting: Ensure that your application stays within Canva's API rate limits. Monitor the number of API requests per minute and adjust your rate limiting and retry strategies as needed.

➢ User Feedback: Collect feedback from users about their experience with the promo video creation process. This qualitative feedback can be valuable for identifying user satisfaction and potential issues.

➢ Logging and Monitoring: Review the application's logs and monitoring systems to identify and address issues proactively. Set up alerts for critical errors or performance degradation.

➢ Cost Efficiency: Evaluate the cost of running your application, considering API usage, storage, and other associated expenses. Ensure that the solution is cost-effective.

➢ Availability and Uptime: Measure the system's availability and uptime. Aim for high availability to ensure users can create promo videos at any time.

➢ User Experience Metrics: Assess user experience metrics, such as load times, user interactions, and any user-specific performance concerns.

➢ Security Metrics: Consider security-related metrics, including the detection of any security vulnerabilities, unauthorized access attempts, and data protection.

➢ Data Integrity: Verify that the promo videos are created accurately, without corruption or loss of data during the process.

➢ Scaling Efficiency: Measure how efficiently the system scales to handle increased workloads. Look for bottlenecks or areas that require optimization.

➢ Automated Testing Coverage: Evaluate the percentage of code covered by automated tests. High test coverage can help identify and prevent regressions.

It's essential to continuously monitor these metrics and perform regular performance testing to identify and address any issues or areas for improvement. As the system evolves and scales, you may need to adapt your performance metrics and optimization strategies accordingly.