Project development phase

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| Date | 3/11/2023 |
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| Project | Google Analytics |

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| No of functional features included in the solution | As of my last knowledge update in 2022, Google Analytics offers a range of functional features designed to help users track and analyze website data. These features include real-time reporting, audience demographics, acquisition analysis |
| Code layout readability and reusability | Modular code structure: Encouraging the use of modular and organized code to enhance readability and maintainability.  Customization through templates: Utilizing templates and configuration files to enable easier reuse of configurations and settings across different instances. |
| Utilisation of algorithms , dynamic programming, optimal memory utilisation | Data compression: Implementing efficient data compression algorithms to reduce memory usage while maintaining data integrity.  Stream processing: Employing stream processing techniques to handle real-time data streams efficiently, enabling timely analysis and response to incoming data.  Data aggregation: Using intelligent data aggregation methods to minimize the memory footprint required for storing and processing large volumes of data. |
| Debugging and traceability | Debugging tools: Providing debugging tools that allow users to track and monitor data collection processes, helping to identify and resolve any issues or errors in the implementation of Google Analytics tracking codes.  Error tracking: Offering error tracking mechanisms that enable users to identify and rectify issues related to data collection, processing, and reporting within the Google Analytics platform. |
| Exception Handling | Error logging: Recording detailed information about errors and exceptions encountered during data collection, processing, and reporting to enable effective troubleshooting and resolution.  Real-time alerts: Providing real-time alerts and notifications to notify users of any critical errors or issues that may affect the accuracy or reliability of the analytics data |

Program:

<!-- Google tag (gtag.js) -->

<script async src="https://www.googletagmanager.com/gtag/js?id=G-KG4M5734S8"></script>

<script>

window.dataLayer = window.dataLayer || [];

function gtag(){dataLayer.push(arguments);}

gtag('js', new Date());

gtag('config', 'G-KG4M5734S8');

</script>

