

Gatekeeper

A reliable, automated data testing and reconciliation solution!



What is **data testing**?

Data-driven organizations make vital decisions based on data analysis. However, data testing can be a complex and hectic task with scope for error due to multiple reasons including incorrect data mapping, data quality issues, data loading issues, lack of datasets etc. As a result, the data testing challenges pose a threat to trust in data, which often affects their ability to use data as an asset.

Data testing challenges faced by companies

While testing data for inaccuracy and defects, conventional methods often prove inefficient and hectic. Some of the primary challenges that organizations face while testing data include:

1

The lack of access to data sources, as conventional methods were mostly dependent upon manual data testing. This would require the generation of large volumes of data, which is an outdated method that can be improved if automated.

2

Manual data testing involves carrying out complex SQL queries that often leave space for errors. As a result, errors in data testing lead to unsuccessful testing of products. This must be overcome by deploying automated data testing methods.

3

Conventional data testing methods have been identified to detect most of the defects during the last leg of the operation.

4

While testing data upon a platform, different teams run the risk of using the same datasets at times, leading to data corruption! In addition, using the same datasets can lead to inaccurate data testing statistics.

5

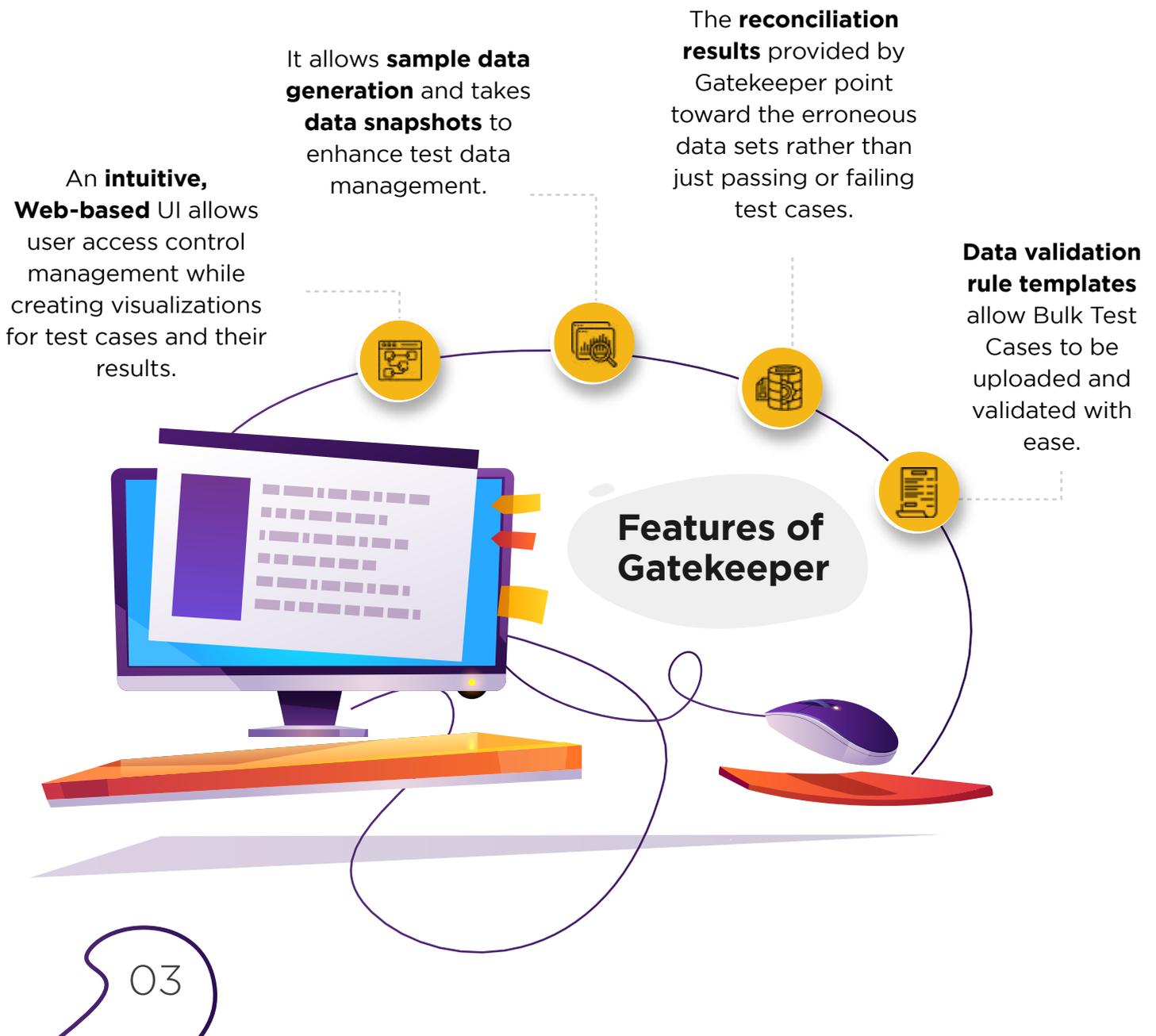
Conventional data testing methods are time-consuming and take up a lot of workforce and resources. However, if allocated to other tasks, these resources can increase productivity.



Introducing Gatekeeper: A reliable, automated data testing and reconciliation solution!

HCL Gatekeeper allows you to automate data testing by deploying zero-touch data testing. Zero-touch data testing replaces manual and complex SQL queries, which are prone to error. Error-free and graphical data testing results enhance product quality, satisfied customers, and better business overall! With the automation of data generation, declarative code testing, data process testing, and data reconciliation, businesses can expect a reduction of efforts spent on data testing by 40%.

How HCL Gatekeeper can help:



Gatekeeper, as a data generator

Gatekeeper can generate new data sets to test the legitimacy and adequacy of new or revised software in affirmative and negative test cases. Gatekeeper generates data sets that test software affirmatively. These data sets verify the adequacy of the software by comparing the output received by providing inputs with expected results. Gatekeeper also generates inconsistent data to test the code against unexpected and extreme inputs. It ensures compliance with data security regulations by masking data and maintains uniformity in the test data. Also, it can generate complex data in bulk to test a software's performance and can handle heavy loads.

Gatekeeper for declarative code testing

Declarative code testing focuses on accomplishing results, and it is carried out to validate the end results, their compliance, and the standards of the code. Gatekeeper enables this and facilitates test-driven development, allowing simple and bug-free coding. The validation of results exposes issues during the earlier stages, saving a lot of time. Gatekeeper ensures that the codes tested meet the compliance requirements and allows implementation of Code Governance, therefore ensuring quality. Early identification of errors reduces reworks, which ultimately leads to greater ROI.

Gatekeeper for data process/transformation testing

Gatekeeper ensures that data is moved from its source to the target only when properly manipulated, transformed, curated, and converted so that they can meet several business rules. Gatekeeper supports heterogeneous data sources and formats, which allows this software to take data from wider sources. Data transformation testing carried out by Gatekeeper ensures that business transformation logic is applied to the code before they are delivered. This data testing software features standard transformation templates, which are pre-defined, and performs column-level transformation testing.

Gatekeeper for data reconciliation

Data conciliation is a phase of data migration that compares the target data to the one obtained from the source to ensure accurate data transfers. This phase must be carried out carefully to ensure the accuracy of data and the reports constructed based on this data. Missing, incorrect, and broken records are identified during this phase. It is characterized by reconciliation rules such as column validation, metric validation, pattern checks, and relationship validations, among many others.

HCL Gatekeeper makes data testing easy, error-free, and saves organizations a lot of time, and resources, which leads to greater ROI. Furthermore, from a long-term perspective, HCL Gatekeeper is capable of creating an automated workflow, which will boost the productivity of the organizations considerably!



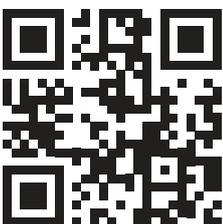
Business **benefits**



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