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Functional Automation Improvements of the API's

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Title of the project: Functional Automation Improvements of the API's

Company: Sabre Travel Technologies India Pvt Ltd

ABSTRACT

Sabre Corporation is a leading software and technology Company that powers the global travel industry, serving a wide range of travel companies including airlines, hoteliers, travel agencies and other suppliers. The Company provides retailing, distribution and fulfilment solutions that help its customers operate more efficiently, drive revenue and offer personalized traveller experiences. Content Services for Lodging (CSL) is a part of Sabre portfolio which aggregates all the lodging content into a single platform. The project mainly focuses on building functional automation to support the API's associated to the platform. The automation for NGHP-Distribution was achieved with the usage of XMLUnits for the comparison of the XML responses returned and to be validated. The groovy scripts were included that would imitate the behaviour of the API and then execute each of the testcase and validate it against the assertions. The automation of NGHP-Booking was based on making the code more modular and increasing the reuse of the scripts. The tool for the tests was SOAPUI, which is an excellent tool for functional automation. The automation of NGHP-Distribution for 3 API's was achieved with increased code reusability and drastic decrease in the execution time when compared to manual testing, also achieved a pass percentage of 95% for each of the API. The automation of NGHP-Booking has helped to make the XMLScripts more reliable for each of the API, with the reduction of 3/4th of the testcases and test-suites for the functionality testing. With reference to the NGHP-Distribution automation for testing the granular APIs along with their underlying downstream orchestrated APIs was developed. The work significantly helped speed up the working of the NGHP-Booking APIs while also improving overall code efficiency and optimization.