



TOP 5 >>

CHALLENGES OF API TESTING

— AND HOW TO OVERCOME THEM

5 Major Challenges with API Testing



01 Setting up of Testing Environment

Setting up of testing environment with the most needed set of API parameters and running it successfully is one of the critical challenges of API testing. It is essential to start combining application data with API tests to ensure API performs in the way as expected over set of known configurations.

02 Sequencing of API Calls

There is a necessity that API calls must appear in a specific order to test them effectively. This usually creates a typical problem for the testing teams. Moreover, API sequencing becomes even more difficult while working with multi-threaded applications or other complicated applications.

03 API Versioning

Typically, versioning is also a primary cause of rising complexity in API testing. Most systems have a degree of depreciation, that should be managed by an API with the help of versioning. The API must identify missing values and allocate some default value to allow the old version to work.

04 Complexity with Use Cases

API testing specifically follows a different approach to testing. APIs being a central hub of logic and gateway to data for interfacing applications, the use cases are near-infinite in API testing. Therefore, the number of required tests rapidly exceeds the competences of QA responsible for test case design.

05 Parameter Validation

API Testers may also face problems with respect to validating parameters via API requests. Testers need to make sure that all parameter data use the same string or numeric data type, meet the length constraints, confirm to a specified range of values and should fit other test criteria.

How to Overcome API Testing Challenges?

To overcome the above challenges, a modern API testing approach should be adopted which consists of:



TestingXperts is proficient in a wide range of API protocols such as XML, SOAP, JSON, REST, Gdata, YAML, ATOM, RSS, and RDF, etc. Our end-to-end application's validation experience at various layers of the application helps in executing a successful API. Our API testers have expertise in leading tools for API testing and ensures to deliver the best methods of API automation.

