API TESTING

API Testing is entirely different from GUI Testing and mainly concentrates on the business logic layer of the s/w architecture. This testing won't concentrate on the look and feel of application.

API Testing requires an application to interact with API. To test an API , we need to-:

1. Use Testing tool to drive the API
2. Write your own code to test the API

Types of O/P of an API :

- Any type of data
- Status(Pass or fail)
- Call to another API function

GUI Testing Works Here

API Testing Works Here

Approches of API Testing:

1. Understanding the functionality of the API program & clearly define the scope of the program
2.Apply Testing techniques
3. Input parameters for API need to be planned & defined appropriatly
4. Execute testcases & compare expected & actual result
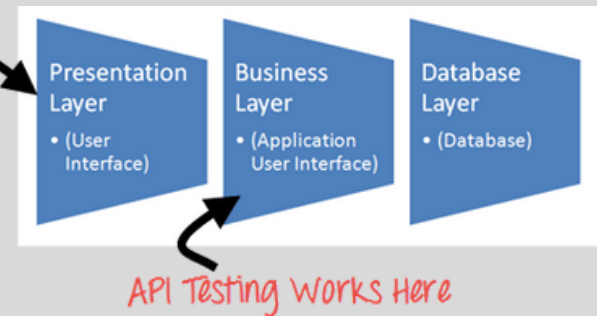
Types of Bugs that API detects:

- 1.Unused flags
- 2. Missing or Duplicate Functionality
- 3.Relability issues
- 4. Security issues
- 5.Fails to handle error conditions gracefully.

Tools For API Testing

These are some popular testing tools used in API Testing:

1. SoapuI
2. Katalon Studio
3. Postman
4. Tricentis Tosca
5. Apigee
6. Jmeter

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