

Authentication & Authorization

For API Testing & Automation

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Authentication

Validating the user to identify if they are who they claim to be is called authentication. For example 'James' is proving his identity by showing a government ID.

Usually authentication is done by a username and password, although there are other various ways to be authenticated. One time password, two-factor authentication are some ways to achieve authentication.

Authorization

Authorization always comes after authentication, which therefore gives you full access to resources such as information, files, databases, funds, etc.

However, there are some roles involved in terms of accessing the system. A good example of this is, once verifying and confirming employee ID and passwords through authentication, the next step would be determining which employee has access to which floor and that is done through authorization.

In short

Authentication = User creds(UN>ID and PW)
(who the hell you are.. xD:)

Authorization = Access Permissions
(You should not use your sisters' car lol..)

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Authentication techniques

- Password-based authentication
- Using an OTP or a magic link sent to their registered email or phone number.
- 2FA/MFA such as an additional PIN or security question
- Single sign-on (SSO)
- Social authentication
- Biometric authentication
- CAPTCHAs

Authorization techniques

- Role-based access controls (RBAC)
- Using public/private key combination, and JSON web token (JWT)
- SAML is a standard Single Sign-On (SSO) protocol in which authentication data is communicated via digitally signed XML documents.
- OpenID authorization
- Attribute-based Access Control (ABAC)
- Mandatory Access Control (MAC)

If you are keen for API testing and automation, Checkout
No Code automation platform : <https://testsigma.com> for

- Reusability
- Easy and simple to start with
- No extra plugins or Library Needed.
 - Low learning curve.
 - Faster Test Automation
 - Easy maintenance.
- Easily integrated with CI/CD.

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