

# Small Project 3

Monday 18/07/2022

API Testing

SekolahQA

## “API Testing of OrangeHRM Website”



<http://qa.cilsy.id/symfony/web/index.php/auth/login>

# What is API Testing?

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API Testing is open-source web automation testing technique that is used for testing APIs for web applications. The purpose of API testing is to record the response of API by sending various HTTP/S requests to check if API is working fine or not. API testing is done by **GET, POST, PUT and DELETE** methods.



Resources: <https://www.guru99.com/testing-rest-api-manually.html>

# Requirement OrangeHRM Testing

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## Requirement

This small project has the following requirements:

- Can access the OrangeHRM Website
- The scope to be tested: Admin, Attendance, 10 point Employee(including GET, POST, PUT, DELETED)
- The results of what has been tested.



# Scope OrangeHRM Testing

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## Software Testing API

POSTMAN

## \In Scope

- ☐ CreateToken
- ☐ Admin
- ☐ Attendance
- ☐ Employee

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## \In Scope

- ❑ CreateToken
- ❑ Admin
- ❑ Attendance

- ▼  01 Admin
  - POST CreateToken
  - GET GetUsers
  - GET OrganizationInformation
  - POST UserLogin
- ▼  02 Attendance
  - POST PunchIn
  - POST PunchOut

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## \In Scope



### Employee

03 Employee		
POST	SaveEmployee	
GET	EmployeeDetail	
PUT	UpdateEmployeeDetail	
GET	EmployeeSearch	
GET	EmployeeContactDetail	
POST	SaveEmployeeContactDetail	
PUT	UpdateEmployeeContactDetail	
POST	SaveEmployeeDependent	
GET	EmployeeDependents	
PUT	UpdateEmployeeDependent	
DEL	DeleteEmployeeDependents	
POST	SaveEmployeeJobDetail	
GET	EmployeeJobDetail	
PUT	UpdateEmployeeJobDetail	
POST	SaveSupervisorDetails	
GET	SupervisorDetails	
PUT	UpdateSupervisorDetails	
DEL	DeleteSupervisorDetails	
POST	SaveEmployeeWorkExperience	
GET	EmployeeWorkExperience	
PUT	UpdateEmployeeWorkExperience	
DEL	DeleteEmployeeWorkExperience	
POST	SaveEmployeeEducation	
GET	EmployeeEducation	
PUT	UpdateEmployeeEducation	
DEL	DeleteEmployeeEducation	
POST	SaveEmployeeCustomField	
GET	EmployeeCustomField	

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## \Addition

❏ TC Negatif

- ✓ 04 TC Negatif
  - POST PunchInNegatif
  - POST PunchOutNegatif
  - POST SaveEmployeeNegatif
  - DEL DeleteEmployeeDependent...

# Result of API Testing

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**POSTMAN Result**



# Result of API Testing

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	executed	failed
iterations	1	0
requests	38	0
test-scripts	70	0
prerequisite-scripts	39	0
assertions	67	0
total run duration: 8.6s		
total data received: 307.21kB (approx)		
average response time: 137ms [min: 50ms, max: 1904ms, s.d.: 299ms]		

## Requests

request to an endpoint, retrieve data from a data source, or test an API's functionality.

## Prerequisite-scripts

a piece of code that will run before the execution of a request

## Test-scripts

## Assertions

used to verify if the actual and expected values have matched after the execution of a test.

# Thankyou!

Do you have any questions?