

HW#07. API Testing

KCPM - 20KTPM01

GROUP 08

MỤC LỤC

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1. Employee

1.1 Feature 1

PUT {{BASE_URL}}/api/v1/employee/:id

Domain Testing Technique

Test case 1:

```
{  
  "firstName" : "Edit",  
  "lastName" : "User",  
  "dob": "2000-12-12",  
  "licenseNumber": "123123"  
}
```

Expected: Status code is 200

Test case 2:

```
{  
  "firstName" : "",  
  "lastName" : "User",  
  "dob": "2000-12-12",  
  "licenseNumber": "123123"  
}
```

Expected: Status code is 400, missing required field

Test case 3:

```
{  
  "firstName" : "123",  
  "lastName" : "User",  
  "dob": "2000-12-12",  
  "licenseNumber": "123123"  
}
```

Expected: Status code is 400, first name should not be number

Test case 4:

```
{
  "firstName" : "Edit",
  "lastName" : "",
  "dob": "2000-12-12",
  "licenseNumber": "123123"
}
```

Expected: Status code is 400, missing required field

Test case 5:

```
{
  "firstName" : "Edit",
  "lastName" : "123",
  "dob": "2000-12-12",
  "licenseNumber": "123123"
}
```

Expected: Status code is 400, last name should not be number

Test case 6:

```
{
  "firstName" : "Edit",
  "lastName" : "User",
  "dob": "1400-12-12",
  "licenseNumber": "123123"
}
```

Expected: Status code is 400, dob should not be far in the past

Test case 7:

```
{
  "firstName" : "Edit",
  "lastName" : "User",
  "dob": "2000-13-13",
}
```

```
"licenseNumber": "123123"
```

```
}
```

Expected: Status code is 400, invalid dob

Test case 8:

```
{
```

```
  "firstName" : "Edit",
```

```
  "lastName" : "User",
```

```
  "dob": "2000-02-30",
```

```
  "licenseNumber": "123123"
```

```
}
```

Expected: Status code is 400, invalid dob

Test case 9:

```
{
```

```
  "firstName" : "Edit",
```

```
  "lastName" : "User",
```

```
  "dob": "2001-02-29",
```

```
  "licenseNumber": "123123"
```

```
}
```

Expected: Status code is 400, invalid dob

Test case 10:

```
{
```

```
  "firstName" : "Edit",
```

```
  "lastName" : "User",
```

```
  "dob": "2200-02-29",
```

```
  "licenseNumber": "123123"
```

```
}
```

Expected: Status code is 400, dob should not be far in the future

Test case 11:

```
{  
  "firstName" : "Edit",  
  "lastName" : "User",  
  "dob": "2000-12-12",  
  "licenseNumber": "abc"  
}
```

Expected: Status code is 400, licenseNumber should not be string

Result:

Source Runner	Environment	Iterations	Duration	All tests	Avg. Resp. Time
Orange4M Environment		1	6s 68ms	11	376 ms

Test Case	URL	Status	Message	Response Code	Response Time	Response Size
PUT TC1	api/v1/employees/id	OK	Status code is 200	200	1015 ms	480 B
PUT TC2	http://localhost:4040/orange4m-4.5/orange4m-4.5/employees/webIndex.php/api/v1/employees/42	FAIL	Status code is 200 AssertionError: expected response to have status code 400 but got 200	200	340 ms	479 B
PUT TC3	http://localhost:4040/orange4m-4.5/orange4m-4.5/employees/webIndex.php/api/v1/employees/42	FAIL	Status code is 200 AssertionError: expected response to have status code 400 but got 200	200	341 ms	479 B
PUT TC4	http://localhost:4040/orange4m-4.5/orange4m-4.5/employees/webIndex.php/api/v1/employees/42	FAIL	Status code is 200 AssertionError: expected response to have status code 400 but got 200	200	323 ms	479 B
PUT TC5	http://localhost:4040/orange4m-4.5/orange4m-4.5/employees/webIndex.php/api/v1/employees/42	FAIL	Status code is 200 AssertionError: expected response to have status code 400 but got 200	200	329 ms	479 B
PUT TC6	http://localhost:4040/orange4m-4.5/orange4m-4.5/employees/webIndex.php/api/v1/employees/42	FAIL	Status code is 200 AssertionError: expected response to have status code 400 but got 200	200	303 ms	479 B
PUT TC7	http://localhost:4040/orange4m-4.5/orange4m-4.5/employees/webIndex.php/api/v1/employees/42	FAIL	Status code is 200 AssertionError: expected response to have status code 400 but got 500	500	Internal Server Error	176 ms, 566 B
PUT TC8	http://localhost:4040/orange4m-4.5/orange4m-4.5/employees/webIndex.php/api/v1/employees/42	FAIL	Status code is 400, invalid dob AssertionError: expected response to have status code 400 but got 500	500	Internal Server Error	147 ms, 566 B
PUT TC9	http://localhost:4040/orange4m-4.5/orange4m-4.5/employees/webIndex.php/api/v1/employees/42	FAIL	Status code is 200 AssertionError: expected response to have status code 400 but got 500	500	Internal Server Error	142 ms, 566 B
PUT TC10	http://localhost:4040/orange4m-4.5/orange4m-4.5/employees/webIndex.php/api/v1/employees/42	FAIL	Status code is 200 AssertionError: expected response to have status code 400 but got 500	500	Internal Server Error	117 ms, 566 B
PUT TC11	http://localhost:4040/orange4m-4.5/orange4m-4.5/employees/webIndex.php/api/v1/employees/42	FAIL	Expected: Status code is 400, licenseNumber should not be string AssertionError: expected response to have status code 400 but got 200	200	OK	349 ms, 480 B

1.2 Feature 2

POST {{BASE_URL}}/api/v1/employee/:id/contact-detail

Test case 1:

```
{  
  "addressStreet1": "No 35 Park street ,Devmore canada",  
  "state": "Western",  
}
```

```
"zip": "15224",  
"mobile": "1204415552",  
"workEmail": "work@yahoo.com",  
"otherEmail": "ninalewis@yahoo.com"  
}
```

Expected: Status code 200

Test case 2:

```
{  
  
  "addressStreet1": "No 35 Park street ,Devmore canada",  
  "state": "California!",  
  "zip": "15224",  
  "mobile": "1204415552",  
  "workEmail": "work@yahoo.com",  
  "otherEmail": "ninalewis@yahoo.com"  
}
```

Expected: Status code 400, invalid state

Test case 3:

```
{  
  "addressStreet1": "No 35 Park street ,Devmore canada",  
  "state": "Western",  
  "zip": "ABC123",  
  "mobile": "1204415552",  
  "workEmail": "work@yahoo.com",  
  "otherEmail": "ninalewis@yahoo.com"  
}
```

Expected: Status code 400, invalid zip

Test case 4:

```
{  
  
  "addressStreet1": "No 35 Park street ,Devmore canada",  
  "state": "Western",  
  "zip": "15224",  
  "mobile": "123-ABCD",  
  "workEmail": "work@yahoo.com",  
  "otherEmail": "ninalewis@yahoo.com"  
}
```

Expected: Status code 400, invalid mobile

Test case 5:

```
{  
  
  "addressStreet1": "No 35 Park street ,Devmore canada",  
  "state": "Western",  
  "zip": "15224",  
  "mobile": "1204415552",  
  "workEmail": "work@.com",  
  "otherEmail": "ninalewis@yahoo.com"  
}
```

Expected: Status code 400, invalid workEmail

Test case 6:

```
{  
  
  "addressStreet1": "No 35 Park street ,Devmore canada",  
  "state": "Western",  
  "zip": "15224",  
  "mobile": "1204415552",  
  "workEmail": "$@sabc@gmail.com",  
  "otherEmail": "ninalewis@yahoo.com"
```



```
}
```

Expected: Status code 400, invalid workEmail

Test case 7:

```
{
```

```
    "addressStreet1": "No 35 Park street ,Devmore canada",
```

```
    "state": "Western",
```

```
    "zip": "15224",
```

```
    "mobile": "123656788",
```

```
    "homeTelephone": "123-ABCD",
```

```
    "workEmail": "work@yahoo.com",
```

```
    "otherEmail": "ninalewis@yahoo.com"
```

```
}
```

Expected: Status code 400, invalid homeTelephone

Test case 8:

```
{
```

```
    "addressStreet1": "No 35 Park street ,Devmore canada",
```

```
    "state": "Western",
```

```
    "zip": "15224",
```

```
    "mobile": "1204415552",
```

```
    "workEmail": "work@yahoo.com",
```

```
    "otherEmail": "work@.com"
```

```
}
```

Expected: Status code 400, invalid otherEmail

Test case 9:

```
{
```

```
"addressStreet1": "No 35 Park street ,Devmore canada",  
"state": "Western",  
"zip": "15224",  
"mobile": "1204415552",  
"workEmail": "work",  
"otherEmail": "ninalewis@yahoo.com"  
}
```

Expected: Status code 400, invalid workEmail

Test case 10:

```
{  
  "addressStreet1": "No 35 Park street ,Devmore canada",  
  "state": "Western",  
  "zip": "15224",  
  "mobile": "1204415552",  
  "workEmail": "abc@gmail.com",  
  "otherEmail": "work"  
}
```

Expected: Status code 400, invalid otherEmail

Result:

OrangeHRM - Run results

Run today at 10:10:14

View all logs

Run Again

Automate Run

New Run

Export Results

Source	Environment	Iterations	Duration	All tests	Avg. Resp. Time
Runner	OrangeHRM Environment	1	5s 218ms	10	408 ms

All Tests

Passed (1)Failed (9)Skipped (0)

View Summary

Iteration 1

POST TC1

http://localhost:orangehrm-4.5/orangehrm-4.5/symfony/web/index.php/api/v1/employees/42/contact-detail

200 OK788 ms478 B

PASS: Status code is 200

POST TC2

http://localhost:orangehrm-4.5/orangehrm-4.5/symfony/web/index.php/api/v1/employees/42/contact-detail

200 OK363 ms477 B

FAIL: Status code 400, invalid state | AssertionError: expected response to have status code 400 but got 200

POST TC3

http://localhost:orangehrm-4.5/orangehrm-4.5/symfony/web/index.php/api/v1/employees/42/contact-detail

200 OK379 ms477 B

FAIL: Status code 400, invalid zip | AssertionError: expected response to have status code 400 but got 200

POST TC4

http://localhost:orangehrm-4.5/orangehrm-4.5/symfony/web/index.php/api/v1/employees/42/contact-detail

200 OK375 ms477 B

FAIL: Status code 400, invalid mobile | AssertionError: expected response to have status code 400 but got 200

POST TC5

http://localhost:orangehrm-4.5/orangehrm-4.5/symfony/web/index.php/api/v1/employees/42/contact-detail

200 OK347 ms477 B

FAIL: Status code is 200 | AssertionError: expected response to have status code 400 but got 200

POST TC6

http://localhost:orangehrm-4.5/orangehrm-4.5/symfony/web/index.php/api/v1/employees/42/contact-detail

200 OK370 ms477 B

FAIL: Status code 400, invalid workEmail | AssertionError: expected response to have status code 400 but got 200

POST TC7

http://localhost:orangehrm-4.5/orangehrm-4.5/symfony/web/index.php/api/v1/employees/42/contact-detail

200 OK352 ms477 B

FAIL: Status code 400, invalid homeTelephone | AssertionError: expected response to have status code 400 but got 200

POST TC8

http://localhost:orangehrm-4.5/orangehrm-4.5/symfony/web/index.php/api/v1/employees/42/contact-detail

200 OK350 ms477 B

FAIL: Status code 400, invalid otherEmail | AssertionError: expected response to have status code 400 but got 200

POST TC9

http://localhost:orangehrm-4.5/orangehrm-4.5/symfony/web/index.php/api/v1/employees/42/contact-detail

200 OK374 ms477 B

FAIL: Status code 400, invalid workEmail | AssertionError: expected response to have status code 400 but got 200

POST TC10

http://localhost:orangehrm-4.5/orangehrm-4.5/symfony/web/index.php/api/v1/employees/42/contact-detail

200 OK391 ms477 B

FAIL: Status code is 200 | AssertionError: expected response to have status code 400 but got 200

1.3 Feature 3

Test case 1: POST {{BASE_URL}}/api/v1/customer

```
{
  "name": "New Customer",
  "description": "Customer description"
}
```

Expected: Status code is 200

Test case 2: GET {{BASE_URL}}/api/v1/customer

Expected: Create successfully, can get customer & Status code is 200

Test case 3: POST {{BASE_URL}}/api/v1/project

```
{
  "customerId": 1,
  "name": "New Project",
  "description": "description",
  "adminIds": "1"
}
```

Expected: Status code is 200

Test case 4: POST {{BASE_URL}}/api/v1/project

```
{  
  "name": "New Project",  
  "description": "description",  
  "adminIds": "1"  
}
```

Expected: Status code is 202, missing customerId

Test case 5: POST {{BASE_URL}}/api/v1/project

```
{  
  "customerId": 1,  
  "name": "",  
  "description": "description",  
  "adminIds": "1"  
}
```

Expected: Status code is 202, missing name

Test case 6: POST {{BASE_URL}}/api/v1/project

```
{  
  "customerId": 1,  
  "name": "New Project",  
  "description": "description",  
  "adminIds": "100"  
}
```

Expected: Status code is 202, cannot find adminIds

Test case 7: POST {{BASE_URL}}/api/v1/project

```
{  
  "customerId": 1,
```

```

    "name": "New Project 2",
    "description": "description"
}

```

Expected: Status code is 202, missing adminIds

Test case 8: GET {{BASE_URL}}/api/v1/customer

Expected: Create successfully 2 customers, can get customer & Status code is 200

Test case 9: DEL {{BASE_URL}}/api/v1/project

```

{
    "projectId": 2
}

```

Expected: Status code is 200

Test case 10: GET {{BASE_URL}}/api/v1/customer

Expected: It should have 1 customer left, can get customer & Status code is 200

Result:

OrangeHM - Run results						
Run today at 10:21:51 View all tests						
Source	Environment	Iterations	Duration	All tests	Avg. Resp. Time	
Runner	OrangeHM Environment	1	2s 450ms	13	127 ms	
All Tests Passed (7) Failed (6) Skipped (0) View Summary						
Iteration 1						
POST TC1	api/v1/customer					200 OK 153 ms 495 B
	PASS: Status code is 200					
GET TC2	http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/customer					200 OK 131 ms 752 B
	FAIL: Created successful, can get customer AssertionError: expected 3 to equal 1					
	PASS: Status code is 200					
POST TC3	http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/project					202 Accepted 138 ms 506 B
	FAIL: Status code is 200 AssertionError: expected response to have status code 200 but got 202					
POST TC4	http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/project					202 Accepted 127 ms 506 B
	PASS: Status code is 202, missing customerId					
POST TC5	http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/project					202 Accepted 105 ms 506 B
	PASS: Status code is 202, missing name					
POST TC6	http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/project					404 Not Found 105 ms 506 B
	FAIL: Status code is 202, cannot find adminId AssertionError: expected response to have status code 202 but got 404					
POST TC7	http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/project					200 OK 133 ms 493 B
	FAIL: Project should have admin AssertionError: expected response to have status code 202 but got 200					
GET TC8	http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/project					200 OK 112 ms 116 KB
	PASS: Create successfully 2 customers					
	PASS: Status code is 200					
DELETE TC9	http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/project					404 Not Found 128 ms 505 B
	FAIL: Status code is 200 AssertionError: expected response to have status code 200 but got 404					
GET TC10	http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/project					200 OK 136 ms 116 KB
	FAIL: It should have 1 customer left AssertionError: expected 3 to equal 1					
	PASS: Status code is 200					

2. Admin

2.1 Feature 1

POST {{BASE_URL}}/api/v1/employee/:id/work-experience

Test case 1:

```
{  
  "company": "company",  
  "title": "title",  
  "fromDate": "2020-12-12",  
  "toDate": "2023-12-12",  
  "comment": "hi"  
}
```

Expected: Successfully updated. Status code is 200

Test case 2:

```
{  
  "company": "",  
  "title": "title",  
  "fromDate": "2020-12-12",  
  "toDate": "2023-12-12",  
  "comment": "hi"  
}
```

Expected: Status code is 202, missing company

Test case 3:

```
{  
  "company": "company",  
  "title": "",  
  "fromDate": "2020-12-12",
```

```
"toDate":"2023-12-12",  
"comment": "hi"  
  
}
```

Expected: Status code is 202, missing title

Test case 4:

```
{  
  "company": "company",  
  "title": "title",  
  "fromDate": "",  
  "toDate":"2023-12-12",  
  "comment": "hi"  
  
}
```

Expected: Status code is 202, missing fromDate

Test case 5:

```
{  
  "company": "company",  
  "title": "title",  
  "fromDate": "2020-12-12",  
  "toDate": "",  
  "comment": "hi"  
  
}
```

Expected: Status code is 202, missing toDate

Test case 6:

```
{
```

```
"company": "company",
"title": "title",
"fromDate": "1600-12-12",
"toDate": "2023-12-12",
"comment": "hi"

}
```

Expected: Status code is 400, fromDate should not be far in the past

Test case 7:

```
{
  "company": "company",
  "title": "title",
  "fromDate": "2020-12-12",
  "toDate": "2019-12-12",
  "comment": "hi"
}
```

Expected: Status code is 202, fromDate should not after toDate

Test case 8:

```
{
  "company": "company",
  "title": "title",
  "fromDate": "2020-12-12",
  "toDate": "3000-12-12",
  "comment": "hi"
}
```

Expected: Status code is 400, toDate should not be far in the future

Result:

OrangeHRM - Run results					
<div> <div>Run today at 10:22:40</div> <div>View all logs</div> <div>Run Again</div> <div>Automate Run</div> <div>New Run</div> <div>Export Results</div> </div>					
Source	Environment	Iterations	Duration	All tests	Avg. Resp. Time
Runner	OrangeHRM Environment	1	2s 203ms	8	141 ms
<div> <div>All Tests</div> <div>Passed (4)</div> <div>Failed (4)</div> <div>Skipped (0)</div> <div>View Summary</div> </div>					
Iteration 1					
POST TC1					
http://localhost:4200/api/v1/employees/42/work-experience					
PASS: Status code is 200, Successfully updated					
200 OK, 224 ms, 488 B					
POST TC2					
http://localhost:4200/api/v1/employees/42/work-experience					
PASS: Status code is 202, missing company					
202 Accepted, 125 ms, 510 B					
POST TC3					
http://localhost:4200/api/v1/employees/42/work-experience					
PASS: Status code is 202, missing title					
202 Accepted, 138 ms, 512 B					
POST TC4					
http://localhost:4200/api/v1/employees/42/work-experience					
FAIL: Status code is 202, missing fromDate AssertionError: expected response to have status code 202 but got 200					
200 OK, 147 ms, 487 B					
POST TC5					
http://localhost:4200/api/v1/employees/42/work-experience					
FAIL: Status code is 202, missing toDate AssertionError: expected response to have status code 202 but got 200					
200 OK, 119 ms, 487 B					
POST TC6					
http://localhost:4200/api/v1/employees/42/work-experience					
FAIL: Status code is 400, fromDate should not be far in the past AssertionError: expected response to have status code 400 but got 200					
200 OK, 116 ms, 487 B					
POST TC7					
http://localhost:4200/api/v1/employees/42/work-experience					
PASS: Status code is 202, fromDate should not be after toDate					
202 Accepted, 126 ms, 510 B					
POST TC8					
http://localhost:4200/api/v1/employees/42/work-experience					
FAIL: Status code is 400, toDate should not be far in the future AssertionError: expected response to have status code 400 but got 200					
200 OK, 133 ms, 487 B					

2.2 Feature 2

POST {{BASE_URL}}/api/v1/employee/:id/education

Test case 1:

```
{
  "institute": "HCMUS",
  "level": 1,
  "startDate": "2020-12-12",
  "endDate": "2024-12-12",
  "specialization": "SE",
  "year": "4",
  "gpa": "4"
}
```

Expected: Status code is 200

Test case 2:

```
{
  "institute": "HCMUS",
  "startDate": "2020-12-12",
  "endDate": "2024-12-12",
  "specialization": "SE",
}
```

```
"year": "4",  
"gpa": "4"  
}
```

Expected: Status code is 202, missing level

Test case 3:

```
{  
  "institute": "HCMUS",  
  "level": 100,  
  "startDate": "2020-12-12",  
  "endDate": "2024-12-12",  
  "specialization": "SE",  
  "year": "4",  
  "gpa": "4"  
}
```

Expected: Status code is 202, cannot find level

Test case 4:

```
{  
  "institute": "HCMUS",  
  "level": 1,  
  "startDate": "1900-12-12",  
  "endDate": "2024-12-12",  
  "specialization": "SE",  
  "year": "4",  
  "gpa": "4"  
}
```

Expected: Status code is 400, startDate should not be far in the past

Test case 5:

```
{
```

```
"institute": "HCMUS",  
"level": 1,  
"startDate": "2020-12-12",  
"endDate": "3000-12-12",  
"specialization": "SE",  
"year": "4",  
"gpa": "4"  
}
```

Expected: Status code is 400, startDate should not be far in the future

Test case 6:

```
{  
  "institute": "HCMUS",  
  "level": 1,  
  "startDate": "2020-12-12",  
  "endDate": "2019-12-12",  
  "specialization": "SE",  
  "year": "4",  
  "gpa": "4"  
}
```

Expected: Status code is 400, startDate should not after endDate

Test case 7:

```
{  
  "institute": "HCMUS",  
  "level": 1,  
  "startDate": "2020-12-12",  
  "endDate": "2024-12-12",  
  "specialization": "SE",  
  "year": "40",  
}
```

```
"gpa": "4"
}
```

Expected: Status code is 400, invalid year

Test case 8:

```
{
  "institute": "HCMUS",
  "level": 1,
  "startDate": "2020-12-12",
  "endDate": "2024-12-12",
  "specialization": "SE",
  "year": "-4",
  "gpa": "4"
}
```

Expected: Status code is 400, invalid year

Test case 9:

```
{
  "institute": "HCMUS",
  "level": 1,
  "startDate": "2020-12-12",
  "endDate": "2024-12-12",
  "specialization": "SE",
  "year": "abcd",
  "gpa": "4"
}
```

Expected: Status code is 400, invalid year

Test case 10:

```
{
```

```

"institute": "HCMUS",

"level": 1,

"startDate": "2020-12-12",

"endDate": "2024-12-12",

"specialization": "SE",

"year": "4",

"gpa": "40"

}

```

Expected: Status code is 400, invalid gpa

Result:

OrangeRM - Run results					
Run today at 10:23:09 View all runs					
Source Runner	Environment	Iterations	Duration	All tests	Avg. Resp. Time
	OrangeRM Environment	1	2s 554ms	10	135 ms
All Tests Passed (4) Failed (6) Skipped (0) View Summary					
Iteration 1					
POST TC1 api/v1/employees/:id/education 200 OK 294 ms 490 B					
PASS Status code is 200					
POST TC2 http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/employees/:id/education 400 Bad Request 129 ms 466 B					
PASS Status code is 200 missing level					
POST TC3 http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/employees/:id/education 400 Bad Request 129 ms 466 B					
PASS Status code is 200					
POST TC4 http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/employees/:id/education 200 OK 118 ms 490 B					
FAIL Status code is 400, startDate should not be far in the past AssertionError: expected response to have status code 400 but got 200					
POST TC5 http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/employees/:id/education 200 OK 113 ms 490 B					
FAIL Status code is 400, startDate should not be far in the future AssertionError: expected response to have status code 400 but got 200					
POST TC6 http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/employees/:id/education 202 Accepted 163 ms 522 B					
PASS Status code is 200					
POST TC7 http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/employees/:id/education 200 OK 116 ms 490 B					
FAIL Status code is 400, invalid year AssertionError: expected response to have status code 400 but got 200					
POST TC8 http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/employees/:id/education 200 OK 110 ms 490 B					
FAIL Status code is 400, invalid year AssertionError: expected response to have status code 400 but got 200					
POST TC9 http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/employees/:id/education 500 Internal Server Error 111 ms 167 B					
FAIL Status code is 400, invalid year AssertionError: expected response to have status code 400 but got 500					
POST TC10 http://localhost:orangehm-4.5/orangehm-4.5/symfony/web/index.php/api/v1/employees/:id/education 200 OK 120 ms 491 B					
FAIL Status code is 400, invalid gpa AssertionError: expected response to have status code 400 but got 200					

2.3 Feature 3

POST {{BASE_URL}}/api/v1/employee/:id/entitlement

Test case 1:

```

{

  "leaveType": 1,

  "fromDate": "2023-03-05",

  "toDate": "2024-03-04",

```

```
    "days": 2
  }
```

Expected: Status code is 200

Test case 2:

```
{
  "fromDate": "2023-03-05",
  "toDate": "2024-03-04",
  "days": 2
}
```

Expected: Status code is 202, missing leave type

Test case 3:

```
{
  "leaveType": 1,
  "fromDate": "2019-03-05",
  "toDate": "2024-03-04",
  "days": 2
}
```

Expected:

Test case 4:

```
{
  "leaveType": 1,
  "fromDate": "",
  "toDate": "2024-03-04",
  "days": 2
}
```

Expected: Status code is 202, missing fromDate

Test case 5:

```
{  
  "leaveType": 1,  
  "fromDate": "2023-03-05",  
  "toDate": "3000-03-04",  
  "days": 2  
}
```

Expected: Status code is 400, toDate should not be far in the future

Test case 6:

```
{  
  "leaveType": 1,  
  "fromDate": "2023-03-05",  
  "toDate": "",  
  "days": 2  
}
```

Expected: Status code is 400, toDate is missing

Test case 7:

```
{  
  "leaveType": 1,  
  "fromDate": "2023-03-05",  
  "toDate": "2024-03-04",  
  "days": -2  
}
```

Expected: Status code is 400, invalid days

Test case 8:

```
{  
  "leaveType": 1,  
  "fromDate": "2023-03-05",
```

```

    "toDate": "2024-03-04",

    "days": 200000
}

```

Expected: Status code is 400, invalid days

Result:

Source Runner	Environment	Iterations	Duration	All tests	Avg. Resp. Time
Orange3RM	Orange3RM Environment	1	2s 152ms	8	143 ms

Test Case	URL	Method	Status	Expected	Actual	Message	Time
TC1	http://localhost:8080/api/v1/employees/1/dependent	POST	200 OK	200	200	Status code is 200	274 ms
TC2	http://localhost:8080/api/v1/employees/42/dependent	POST	202 Accepted	202	202	Status code is 202, missing leave type	111 ms
TC3	http://localhost:8080/api/v1/employees/42/dependent	POST	202 Accepted	202	202	Status code is 200	123 ms
TC4	http://localhost:8080/api/v1/employees/42/dependent	POST	202 Accepted	202	202	Status code is 202, missing fromDate	130 ms
TC5	http://localhost:8080/api/v1/employees/42/dependent	POST	202 Accepted	202	202	Status code is 400, toDate should not be far in the future	102 ms
TC6	http://localhost:8080/api/v1/employees/42/dependent	POST	200 OK	400	200	Status code is 200 AssertionError: expected response to have status code 400 but got 200	132 ms
TC7	http://localhost:8080/api/v1/employees/42/dependent	POST	200 OK	400	200	Status code is 200 AssertionError: expected response to have status code 400 but got 200	120 ms
TC8	http://localhost:8080/api/v1/employees/42/dependent	POST	200 OK	400	200	Status code is 200 AssertionError: expected response to have status code 400 but got 200	139 ms

3. Leave

3.1 Feature 1

POST {{BASE_URL}}/api/v1/employee/:id/dependent

Test case 1:

```

{
  "name" : "Dependent Test",
  "relationship": "Child",
  "dob": "2000-12-12"
}

```

Expected: Status code is 200

Test case 2:

```

{
  "name" : "123",

```



```
"relationship": "Child",
"dob": "2000-12-12"
}
```

Expected: Status code is 202, invalid name

Test case 3:

```
{
  "name": "",
  "relationship": "Child",
  "dob": "2000-12-12"
}
```

Expected: Status code is 202, name is missing

Test case 4:

[illegible]

TestDependent Test Dependent Test Dependent Test Dependent Test Dependent Test
Dependent Test Dependent Test Dependent TestDependent Test Dependent Test
Dependent Test Dependent Test Dependent Test Dependent Test Dependent Test
Dependent TestDependent Test Dependent Test Dependent Test Dependent Test
Dependent Test Dependent Test Dependent Test Dependent TestDependent Test
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TestDependent Test Dependent TestDependent Test Dependent Test Dependent Test
Dependent Test Dependent Test Dependent TestDependent Test Dependent
TestDependent Test Dependent Test Dependent Test Dependent Test Dependent Test
Dependent TestDependent Test Dependent Test",

```
"relationship": "",  
"dob": "2000-12-12"  
}
```

Expected: Status code is 202, invalid name

Test case 5:

```
{  
  "name" : "Dependent Test",  
  "relationship": "Child",  
  "dob": ""  
}
```

Expected: Status code is 202, dob is missing

Test case 6:

```
{  
  "name" : "Dependent Test",
```

```
"relationship": "Child",  
"dob": "1200-12-12"  
}
```

Expected: Status code is 400, dob should not be far in the past

Test case 7:

```
{  
  "name" : "Dependent Test",  
  "relationship": "Child",  
  "dob": "3000-12-12"  
}
```

Expected: Status code is 400, dob should not be far in the future

Test case 8:

```
{  
  "name" : "Dependent Test",  
  "relationship": "Child",  
  "dob": "2000-33-12"  
}
```

Expected: Status code is 400, invalid dob

Test case 9:

```
{  
  "name" : "Dependent Test",  
  "relationship": "Child",  
  "dob": "2000-02-30"  
}
```

Expected: Status code is 400, invalid dob

Result:

OrangeHIM - Run results						Run Again	Automate Run	+ New Run	Export Results
Source	Environment	Iterations	Duration	All tests	Avg. Resp. Time				
Runner	OrangeHIM Environment	1	2s 365ms	9	134 ms				
All Tests: Passed (2) Failed (7) Skipped (0)						View Summary			
Iteration 1									
POST TC1									
http://localhost:8080/orangehim-4.5/orangehim-4.5.xmfony/web/index.php/api/v1/employees/42/dependent						200 OK 227 ms 497 B			
PASS Status code is 200									
POST TC2									
http://localhost:8080/orangehim-4.5/orangehim-4.5.xmfony/web/index.php/api/v1/employees/42/dependent						200 OK 128 ms 496 B			
FAIL Status code is 202, invalid name AssertionError: expected response to have status code 400 but got 200									
POST TC3									
http://localhost:8080/orangehim-4.5/orangehim-4.5.xmfony/web/index.php/api/v1/employees/42/dependent						202 Accepted 134 ms 517 B			
FAIL Status code is 202, name is missing AssertionError: expected response to have status code 400 but got 202									
POST TC4									
http://localhost:8080/orangehim-4.5/orangehim-4.5.xmfony/web/index.php/api/v1/employees/42/dependent						202 Accepted 104 ms 525 B			
PASS Status code is 202, invalid name									
POST TC5									
http://localhost:8080/orangehim-4.5/orangehim-4.5.xmfony/web/index.php/api/v1/employees/42/dependent						200 OK 117 ms 496 B			
FAIL Status code is 202, dob is missing AssertionError: expected response to have status code 202 but got 200									
POST TC6									
http://localhost:8080/orangehim-4.5/orangehim-4.5.xmfony/web/index.php/api/v1/employees/42/dependent						200 OK 137 ms 496 B			
FAIL Status code is 400, dob should not be far in the past AssertionError: expected response to have status code 400 but got 200									
POST TC7									
http://localhost:8080/orangehim-4.5/orangehim-4.5.xmfony/web/index.php/api/v1/employees/42/dependent						200 OK 114 ms 496 B			
FAIL Status code is 400, dob should not be far in the future AssertionError: expected response to have status code 400 but got 200									
POST TC8									
http://localhost:8080/orangehim-4.5/orangehim-4.5.xmfony/web/index.php/api/v1/employees/42/dependent						200 OK 112 ms 496 B			
FAIL Status code is 400, invalid dob AssertionError: expected response to have status code 400 but got 200									
POST TC9									
http://localhost:8080/orangehim-4.5/orangehim-4.5.xmfony/web/index.php/api/v1/employees/42/dependent						200 OK 136 ms 496 B			
FAIL Status code is 400, invalid dob AssertionError: expected response to have status code 400 but got 200									

3.2 Feature 2

Test case 1: GET {{BASE_URL}}/api/v1/activity

Expected: It should return status 404 if no records found

Test case 2: POST {{BASE_URL}}/api/v1/activity

```
{
  "projectId": 1,
  "name": "New Activity 2"
}
```

Expected: Status code is 200

Test case 3: PUT {{BASE_URL}}/api/v1/activity

```
{
  "projectId": 1,
  "activityId": 1,
  "name": "New Activity Edited"
}
```

Expected: Status code is 200

Test case 4: PUT {{BASE_URL}}/api/v1/activity

```
{  
  "projectId": 1,  
  "activityId": 1,  
  "name": "New Activity Edited"  
}
```

Expected: Status code is 202, Activity Name Already Exists

Test case 5: PUT {{BASE_URL}}/api/v1/activity

```
{  
  "projectId": 1,  
  "activityId": 1  
}
```

Expected: Status code is 202, Name should be required

Test case 6: GET {{BASE_URL}}/api/v1/activity

```
{  
  "id": 1  
}
```

Expected: It should be success and get 1 activity

Test case 7: DEL {{BASE_URL}}/api/v1/activity

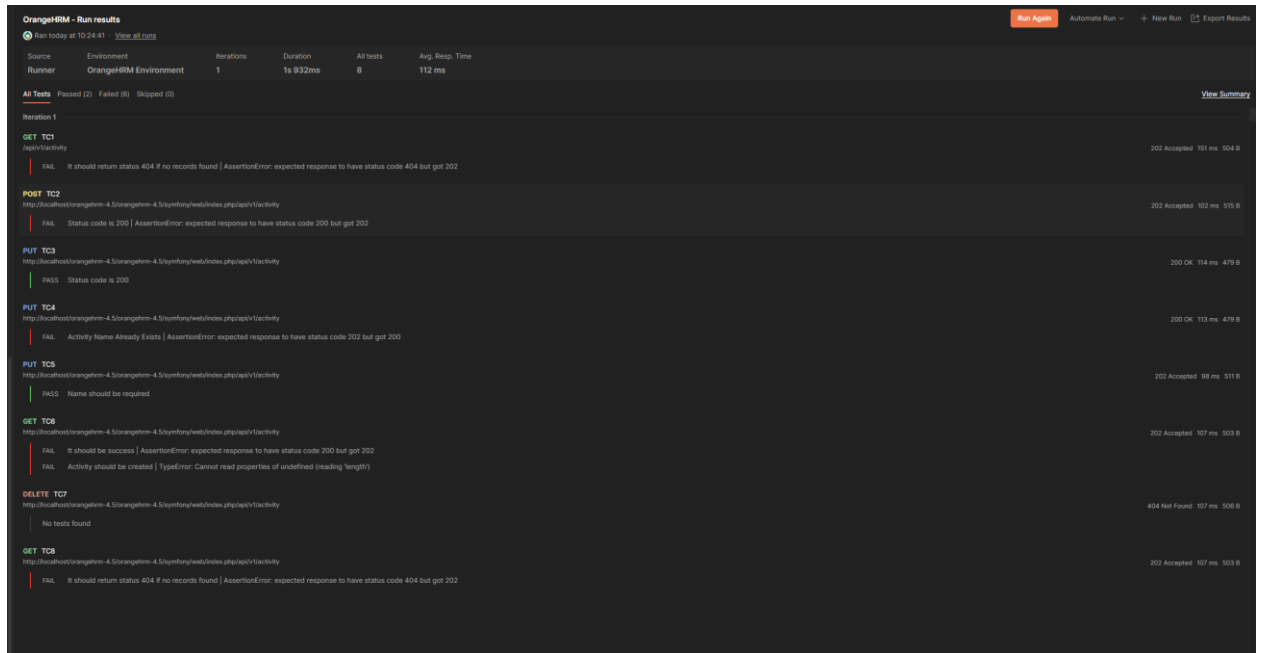
```
{  
  "projectId": 1,  
  "activityId": 1,  
  "name": "New Activity Edited"  
}
```

Expected: Status code is 200

Test case 8: GET {{BASE_URL}}/api/v1/activity Expected: Status code is 400, invalid
dob

Expected: It should return status 404 if no records found

Result:



The screenshot displays the 'Orange-Run - Run results' window. At the top, it shows 'Run today at 10:24:41' and a 'View all runs' link. Below this is a table with columns: Source, Environment, Iterations, Duration, All tests, and Avg. Resp. Time. The 'Source' column lists 'Runner', 'Environment', and 'Orange-Run Environment'. The 'Iterations' column shows '1', 'Duration' shows '1s 932ms', 'All tests' shows '8', and 'Avg. Resp. Time' shows '112 ms'. Below the table, there's a section for 'All Tests' with a 'View Summary' link. The tests are listed as follows:

Test Name	URL	Status	Message	Response Code	Response Time	Response Size
GET TC1	http://localhost:8080/api/v1/activity	202 Accepted	151 ms	504 B		
POST TC2	http://localhost:8080/api/v1/activity	202 Accepted	102 ms	510 B		
PUT TC3	http://localhost:8080/api/v1/activity	200 OK	114 ms	479 B		
PUT TC4	http://localhost:8080/api/v1/activity	200 OK	113 ms	479 B		
PUT TC5	http://localhost:8080/api/v1/activity	202 Accepted	98 ms	511 B		
GET TC6	http://localhost:8080/api/v1/activity	202 Accepted	107 ms	503 B		
DELETE TC7	http://localhost:8080/api/v1/activity	404 Not Found	107 ms	506 B		
GET TC8	http://localhost:8080/api/v1/activity	202 Accepted	107 ms	503 B		

3.3 Feature 3

Test case 1: POST {{BASE_URL}}/api/v1/employee/:id/timesheet

```
{
  "startDate": "2022-12-12"
}
```

Expected: Status code is 200

Test case 2: POST {{BASE_URL}}/api/v1/employee/:id/timesheet

```
{
  "startDate": "1800-12-12"
}
```

Expected: Cannot create timesheet far in the past

Test case 3: PUT {{BASE_URL}}/api/v1/employee/:id/timesheet

```
{
  "startDate": "3000-12-12"
}
```

Expected: Cannot create timesheet in future

Test case 4: PUT {{BASE_URL}}/api/v1/employee/:id/timesheet

```
{  
  "startDate": "2022-12-12",  
  "state": "SUBMITTED",  
  "projectId": 1,  
  "comment": "update timesheet",  
  "activityId": 1  
}
```

Expected: It should be edited

Test case 5: PUT {{BASE_URL}}/api/v1/activity

```
{  
  "startDate": "2022-12-12",  
  "state": "SUBMITTED",  
  "projectId": 1,  
  "comment": "",  
  "activityId": 1  
}
```

Expected: It should included comment

Test case 6: PUT {{BASE_URL}}/api/v1/employee/:id/timesheet

```
{  
  "startDate": "2022-12-12",  
  "state": "SUBMITTED",  
  "comment": ""  
}
```

Expected: It should included project and activity

Test case 7: PUT {{BASE_URL}}/api/v1/employee/:id/timesheet

```
{  
  "startDate": "3000-12-12",  
  "state": "SUBMITTED",  
  "projectId": 1,  
  "comment": "update timesheet",  
  "activityId": 1  
}
```

Expected: It should not be far in the future

Test case 8: PUT {{BASE_URL}}/api/v1/employee/:id/timesheet

```
{  
  "startDate": "1000-12-12",  
  "state": "SUBMITTED",  
  "projectId": 1,  
  "comment": "update timesheet",  
  "activityId": 1  
}
```

Expected: It should not be far in the past

Test case 9: PUT {{BASE_URL}}/api/v1/employee/:id/timesheet

```
{  
  "startDate": "2022-12-12",  
  "state": "APPROVED",  
  "projectId": 1,  
  "comment": "update timesheet",  
  "activityId": 1  
}
```

Expected: status should be edited

Test case 10: GET {{BASE_URL}}/api/v1/employee/:id/timesheet

```
{
  "startDate": "1000-12-12",
  "state": "SUBMITTED",
  "projectId": 1,
  "comment": "update timesheet",
  "activityId": 1
}
```

Expected: Timesheet should be created

Result:

OrangeHRM - Run results

Run today at 10:25:29 · View all runs

Source	Environment	Iterations	Duration	All tests	Avg. Resp. Time
Runner	OrangeHRM Environment	1	2s 960ms	10	169 ms

All Tests Passed (3) Failed (7) Skipped (0)

View Summary

Iteration 1

POST TC1

http://localhost:orangehrm-4.5/orangehrm-4.5/enfory/web/index.php/api/v1/employees/42/timesheet

PASS Status code is 200

200 OK · 214 ms · 480 B

POST TC2

http://localhost:orangehrm-4.5/orangehrm-4.5/enfory/web/index.php/api/v1/employees/42/timesheet

FAIL Cannot create timesheet far in the past | AssertionError: expected response to have status code 400 but got 200

200 OK · 125 ms · 479 B

POST TC3

http://localhost:orangehrm-4.5/orangehrm-4.5/enfory/web/index.php/api/v1/employees/42/timesheet

PASS Cannot create timesheet in future

202 Accepted · 114 ms · 516 B

PUT TC4

http://localhost:orangehrm-4.5/orangehrm-4.5/enfory/web/index.php/api/v1/employees/42/timesheet

FAIL It should be edited | AssertionError: expected response to have status code 200 but got 500

500 Internal Server Error · 480 ms · 734 B

PUT TC5

http://localhost:orangehrm-4.5/orangehrm-4.5/enfory/web/index.php/api/v1/employees/42/timesheet

FAIL It should include comment | AssertionError: expected response to have status code 202 but got 200

200 OK · 118 ms · 480 B

PUT TC6

http://localhost:orangehrm-4.5/orangehrm-4.5/enfory/web/index.php/api/v1/employees/42/timesheet

FAIL It should include project and activity | AssertionError: expected response to have status code 202 but got 200

200 OK · 113 ms · 479 B

PUT TC7

http://localhost:orangehrm-4.5/orangehrm-4.5/enfory/web/index.php/api/v1/employees/42/timesheet

FAIL It should not be far in the future | AssertionError: expected response to have status code 202 but got 404

404 Not Found · 113 ms · 507 B

PUT TC8

http://localhost:orangehrm-4.5/orangehrm-4.5/enfory/web/index.php/api/v1/employees/42/timesheet

FAIL It should not be far in the past | AssertionError: expected response to have status code 202 but got 404

404 Not Found · 111 ms · 507 B

PUT TC9

http://localhost:orangehrm-4.5/orangehrm-4.5/enfory/web/index.php/api/v1/employees/42/timesheet

FAIL status should be edited | AssertionError: expected response to have status code 200 but got 500

500 Internal Server Error · 122 ms · 734 B

GET TC10

http://localhost:orangehrm-4.5/orangehrm-4.5/enfory/web/index.php/api/v1/employees/42/timesheet

PASS Timesheet should be created

200 OK · 166 ms · 728 B