**Test case for our application:**

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| **What we test for** | **Tested result** | **Expected result** |
| Error/ no client\_id | {"message":"Wrong type or no client\_id is provided."} | {"message":"Wrong type or no client\_id is provided."} |
| Error/ no permission(admin) | {"message":"Unknow error."} | {"message":"admin cannot deal with task."} |
| Error/ no permission(internal) | {"message":"Unknow error."} | {"message":"Internal cannot deal with task."} |
| Correct/ accepted by external | {"message":"External cannot deal with task."} | {  "status":,  "messege":,  "task\_id":  }  status field should be a value let user know this request is success or not  message field should be some text tell user what this request do.  task\_id field should be the task\_id created by this request |
| Error/ client\_id has wrong typed | {"message":"Wrong type or no client\_id is provided."} | {"message":"Wrong type or no client\_id is provided."} |
| Error/ time\_limit | {"message":"Not interval time\_limit is provided."} | {"message":"Not interval time\_limit is provided."} |
| Error/ client\_id out of range | {"message":"Wrong type or no client\_id is provided."} | {"message":"Wrong type or no client\_id is provided."} |
| Error/ accept failed | {"message":"Cannot find acception in request body. "} | {"message":"Cannot find acception in request body. "} |

1. test for external to accept task

Method: post URL: http://localhost:5000/api/v1/allocator

1. test for create a task

Method: post URL: http://localhost:5000/api/v1/task

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| **What we test for** | **Tested result** | **Expected result** |
| correct/ all fields filled except description admin | {"message":"Unknow error."} | {  "status":,  "messege":,  "task\_id":  }  status field should be a value let user know this request is success or not  message field should be some text tell user what this request do.  task\_id field should be the task\_id created by this request |
| Error/client\_id out of range | {"message":"This client\_id is not in record."} | {"message":"This client\_id is not in record."} |
| Error/client\_id has wrong typed | {"message":"Wrong type or no client\_id is provided."} | {"message":"Wrong type or no client\_id is provided."} |
| Error/ description has wrong type | {"message":"Unknow error."} |  |
| Correct/ all fileds filled internal | {"message":"Unknow error."} | {  "status":,  "messege":,  "task\_id":  }  status field should be a value let user know this request is success or not  message field should be some text tell user what this request do.  task\_id field should be the task\_id created by this request |
| Error/ client\_id no value | {"message":"Wrong type or no client\_id is provided."} | {"message":"Wrong type or no client\_id is provided."} |
| Correct/ all fields filled admin | {"message":"Unknow error."} | {  "status":,  "messege":,  "task\_id":  }  status field should be a value let user know this request is success or not  message field should be some text tell user what this request do.  task\_id field should be the task\_id created by this request |
| correct / all fields filled except description and time\_limit admin | {"message":"Unknow error."} | {"status":, "messege":, "task\_id":}  status field should be a value let user know this request is success or not  message field should be some text tell user what this request do.  task\_id field should be the task\_id created by this request |
| Correct/ all fields filled external | {"message":"External cannot deal with task."} | {  "status":,  "messege":,  "task\_id":  }  status field should be a value let user know this request is success or not  message field should be some text tell user what this request do.  task\_id field should be the task\_id created by this request |
| correct / all fields filled except time\_limit admin | {"message":"Unknow error."} | {  "status":,  "messege":,  "task\_id":  }  status field should be a value let user know this request is success or not  message field should be some text tell user what this request do.  task\_id field should be the task\_id created by this request |
| Error/ time\_limit has errored | {"message":"Not interval time\_limit is provided."} | {"message":"Not interval time\_limit is provided."} |

1. test for external get a task

Method: get URL: http://localhost:5000/api/v1/allocator

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| **What we test for** | **Tested result** | **Expected result** |
| Error/ no client\_id | {"message":"Wrong type or no client\_id is provided."} | {"message":"Wrong type or no client\_id is provided."} |
| Correct/ external get task | {"message":"Unknow error."} | {  "status":,  "messege":,  "task\_id":  }  status field should be a value let user know this request is success or not  message field should be some text tell user what this request do.  task\_id field should be the task\_id created by this request |
| Error/ no permission(internal) | {"message":"Internal cannot deal with assignment."} | {"message":"Internal cannot deal with assignment."} |
| Error/ client\_id has out of range | {"message":"This client\_id is not in record."} | {"message":"This client\_id is not in record."} |
| Error/ client\_id error | {"message":"This client\_id is not in record."} | {"message":"This client\_id is not in record."} |
| Error/ no permission(admin) | {"message":"Admin cannot deal with assignment."} | {"message":"Admin cannot deal with assignment."} |

1. test for external submit a task

Method: post URL: http://localhost:5000/api/v1/submission

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| **What we test for** | **Tested result** | **Expected result** |
| Error/ no permission(admin) | {"message":"No assignment need to be submited."} | {"message":"admin cannot deal with task."} |
| Error/ submitted wrong description | {"message":"No assignment need to be submited."} | {"message":"No assignment need to be submited."} |
| Error/ time\_limit error | {"message":"No assignment need to be submited."} | {"message":"Not interval time\_limit is provided."} |
| Error/ client\_id out of range | {"message":"This client\_id is not in record."} | {"message":"This client\_id is not in record."} |
| Error/ client\_id has wrong typed | {"message":"This client\_id is not in record."} | {"message":"This client\_id is not in record."} |
| Error/ no permission(internal) | {"message":"No assignment need to be submited."} | {"message":"No assignment need to be submited."} |
| Correct/ submitted by external | {"message":"External cannot deal with task."} | {  "status":,  "messege":,  "task\_id":  }  status field should be a value let user know this request is success or not  message field should be some text tell user what this request do.  task\_id field should be the task\_id created by this request |
| Error/ missed client\_id | {"message":"Wrong type or no client\_id is provided."} | {"message":"Wrong type or no client\_id is provided."} |

1. test for internal get a result of task

Method: get URL: http://localhost:5000/api/v1/submission/:id

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| **What we test for** | **Tested result** | **Expected result** |
| Error/ no client\_id | {"message":"Wrong type or no client\_id is provided."} | {"message":"Wrong type or no client\_id is provided."} |
| Error/ client has wrong typed | {"message":"Wrong type or no client\_id is provided."} | {"message":"Wrong type or no client\_id is provided."} |
| Error/ no permission(external) | {"message":"External cannot deal with task."} | {"message":"External cannot deal with task."} |
| Error/ no permission(admin) | {"message":"Unknow error."} | {"message":"admin cannot deal with task."} |
| Error/ description has wrong typed | {"message":"Unknow error."} | {"message":"This task is not in the record."} |
| Error/ client\_id out of range | {"message":"This client\_id is not in record."} | {"message":"This client\_id is not in record."} |
| Correct/ internal get result | {"message":"Unknow error."} | {"message":"Internal cannot deal with task."} |

1. test for internal update a task

Method: patch URL: <http://localhost:5000/api/v1/task/:id>

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| **What we test for** | **Tested result** | **Expected result** |
| Error/ no permission(admin) | {"message":"This task is not in the record."} | {"message":"This task is not in the record."} |
| Error/ no permission(external) | {"message":"External cannot deal with task."} | {"message":"External cannot deal with task."} |
| Error/ no client\_id | {"message":"Wrong type or no client\_id is provided."} | {"message":"Wrong type or no client\_id is provided."} |
| Error/ description has wrong typed | {"message":"This task is not in the record."} | {"message":"This task is not in the record."} |
| Correct/ updated by internal | {"message":"This task is not in the record."} | {"message":"This task is not in the record."} |
| Error/ client\_id out of range | {"message":"This client\_id is not in record."} | {"message":"This client\_id is not in record."} |
| Error/ client\_id has wrong typed | {"message":"Wrong type or no client\_id is provided."} | {"message":"Wrong type or no client\_id is provided."} |

1. test for internal to delete task

method: delete URL: http://localhost:5000/api/v1/task/:id

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| **What we test for** | **Tested result** | **Expected result** |
| Error/ client\_id has wrong typed | {"message":"Wrong type or no client\_id is provided."} | {"message":"Wrong type or no client\_id is provided."} |
| Error/ no permission(external) | {"message":"External cannot deal with task."} | {"message":"External cannot deal with task."} |
| Error/ no permission(admin) | {"message":"This task is not in the record."} | {"message":"This task is not in the record."} |
| Error/ client\_id out of range | {"message":"This client\_id is not in record."} | {"message":"This client\_id is not in record."} |
| Error/ no client\_id | {"message":"Wrong type or no client\_id is provided."} | {"message":"Wrong type or no client\_id is provided."} |
| Correct/ internal delete task | {"message":"This task is not in the record."} | {"message":"This task is not in the record."} |