Labman APIs

**API: /request**

* Method: GET
* Description: Get list of requests.
* Parameters:
  + student\_id(optional):
  + type\_name(optional):
  + start\_date(optional):
  + end\_date(optional):
  + request\_status(optional):
* Response:
  + request object:
    - request\_id (integer, required): The ID of the borrowing request to be edited.
    - request\_time(datetime): the time the request was received.
    - student\_id (string, optional): who is borrowing the equipment.
    - type\_id:
    - type\_name (string, optional): the equipment type to borrow.
    - borrow\_amount(integer, optional):
    - return\_date(datetime,optional): The updated due date of the return.
    - request\_status(int):

**Test case:**

http://localhost:3008/request/student\_id=a1877777&type\_name=Spector&start\_date=2023-04-01&request\_status=0

**API: /request**

* Method: POST
* Description: create a borrowing request and insert an action log to the eqpmt log table.
* Parameters:
  + student\_id (integer, required): The student ID, who is borrowing the equipment.
  + type\_name (integer, required): The ID of the equipment to borrow.
  + borrow\_amount(integer, required):
  + return\_date(datetime,required): The due date of the return.
* inner function:
  + get type\_id, request\_time, combine all the information then insert into ‘request’ table with a status ‘0: new’.
* Response:
  + message (string): A message indicating whether the borrowing was successful or not.

**Test Case:**

<http://localhost:3008/request>

{

"student\_id": "a1877777",

"type\_id": 25,

"type\_name": "",

"borrow\_amount": 2,

"return\_date":null

}

**API: /request/edit**

* Method: PUT
* Description: Edit a borrowing request and add an action log in the eqpmt log table.
* Parameters:
  + request\_id (integer, required): The ID of the borrowing request to be edited.
  + student\_id (string, optional): who is borrowing the equipment.
  + type\_name (string, optional): the equipment type to borrow.
  + borrow\_amount(integer, optional):
  + return\_date(datetime,optional): The updated due date of the return.
* inner function:
  + get user\_id and type\_id, (don’t change request\_time)combine all the information then insert into database.
* Response:
  + message (string): A message indicating whether the editing was successful or not.

**API: /request/collect/:request\_id**

* Method: PATCH
* Description: change the status of the borrowing request to be picked, and insert an action log into the eqpmt log table.
* inner function:
  + get all fields from the request, and borrow\_time(pick time),combine all the information then insert into ‘borrow’ table with a status ‘0:unreturned/borrowed’.
  + after the above operation succeed, change the request status to ‘1: picked/borrowed’
  + update ‘removable’ in equipment\_type table to be 0.
* Response:
  + message (string): A message indicating whether the pick/borrow operation was successful or not.

Test Case:

<http://localhost:3008/request/collect>/26

**API: /request/cancel/:request\_id**

* Method: POST
* Description: change the status of the borrowing request to be denied/cancelled .and insert an action log into the eqpmt log table.
* inner function:
  + get user\_id and type\_id, borrow\_time(pick\_time)combine all the information then insert into ‘borrow’ table with a status ‘unreturned’.
* Response:
  + message (string): A message indicating whether the returning was successful

or not.

Test Case:

http://localhost:3008/request/cancel/22