

# get API Doc

Lưu ý: <http://localhost:3001> => <https://tngiabao.ticklab.site>

## 1. Sign Up

- URL: <http://localhost:3001/api/auth/signup>
- Method: POST

### Request Body:

```
{
  "email": "bao6@123",
  "username": "bao6",
  "password": "123"
}
```

### Response:

```
{
  "status": 201,
  "message": "User created successfully",
  "data": {
    "user": {
      "id": "20344dbf-6155-4ecc-891b-8fdaabea9b6e",
      "name": "bao7",
      "email": "bao7@123",
      "avatarurl":
"https://avatar.iran.liara.run/username?username=bao7",
      "role": "user",
      "coinbalance": 0
    }
  }
}
```

---

## 2. Sign In

- URL: <http://localhost:3001/api/auth/signin>
- Method: POST

**Request Body:**

```
{
  "email": "bao3@123",
  "password": "123"
}
```

**Response:**

```
{
  "status": 200,
  "message": "User signed in successfully",
  "data": {
    "id": "1211d02a-df15-4365-9119-ef6371bdcd79",
    "name": "bao3",
    "email": "bao3@123",
    "avatarurl":
"https://avatar.iran.liara.run/username?username=bao3",
    "role": "admin",
    "coinbalance": 0,
    "cookie":
  }
}
```

---

### 3. File Upload

- **URL:** `http://localhost:3001/api/file/upload`
- **Method:** POST

**Response:**

```
{
  "status": 201,
  "message": "File uploaded successfully",
  "data": {
    "id": "c36d1ba3-bbac-4857-b6ea-45b4677e2379",
    "userid": "1211d02a-df15-4365-9119-ef6371bdcd79",
    "filename": "1730220603851-Chapter_6_v8.0.pdf",
  }
}
```

```

        "url":
"https://firebasestorage.googleapis.com/v0/b/ssps-715a8.appspot.com/
o/1730220603851-Chapter_6_v8.0.pdf?alt=media&token=15cec8d1-504c-48c
7-bf82-7425c10726a4",
        "type": "application/pdf",
        "pageCount": 5
    }
}

```

- 

#### 4. Get File by User ID

- **URL:** `http://localhost:3001/api/file/user/{userId}`
- **Method:** GET

GET

`https://tngiabao.ticklab.site/api/file/user/1211d02a-df15-4365-9119-ef6371bdcd79`

**Response:**

```

{
  "status": 200,
  "message": "Get file successfully",
  "data": [
    {
      "id": "aecbb0ea-53a8-4079-9d98-dc7fe9736fa0",
      "userid": "1211d02a-df15-4365-9119-ef6371bdcd79",
      "filename": "1730135566564-Class.drawio.png",
      "url":
"https://firebasestorage.googleapis.com/v0/b/ssps-715a8.appspot.com/
o/1730135566564-Class.drawio.png?alt=media&token=fc7b9b30-9148-4148-
bc5b-8d553a359053",
      "type": "image/png"
    },
    {
      "id": "24da72b8-a40f-4e6c-aef4-b4f93fb8cebb",
      "userid": "1211d02a-df15-4365-9119-ef6371bdcd79",
      "filename": "1731430393615-Fundamental of Database
Systems.pdf",

```

```

        "url":
"https://firebasestorage.googleapis.com/v0/b/ssps-715a8.appspot.com/
o/1731430393615-Fundamental%20of%20Database%20Systems.pdf?alt=media&
token=db12d5a3-b35d-4b7c-9ace-e7d7476355fa",
        "type": "application/pdf"
    },
    {
        "id": "99c73745-8805-4747-b074-4ceece2775ae",
        "userid": "1211d02a-df15-4365-9119-ef6371bdcd79",
        "filename": "1731401303426-Chapter_6_v8.0.pdf",
        "url":
"https://firebasestorage.googleapis.com/v0/b/ssps-715a8.appspot.com/
o/1731401303426-Chapter_6_v8.0.pdf?alt=media&token=ecea9267-869c-42c
6-99e7-43816ac49f6b",
        "type": "application/pdf"
    },
    {
        "id": "2778f269-94ca-4448-b225-743220d716c3",
        "userid": "1211d02a-df15-4365-9119-ef6371bdcd79",
        "filename":
"1731417019225-Develop_a_Network_Application.pdf",
        "url":
"https://firebasestorage.googleapis.com/v0/b/ssps-715a8.appspot.com/
o/1731417019225-Develop_a_Network_Application.pdf?alt=media&token=f9
9dc73f-4eae-4de0-9c4e-59ae7dec63de",
        "type": "application/pdf"
    },
    {
        "id": "2e249675-32e3-49bd-ab5c-0b91c5545a50",
        "userid": "1211d02a-df15-4365-9119-ef6371bdcd79",
        "filename": "1731417372225-task 3.pdf",
        "url":
"https://firebasestorage.googleapis.com/v0/b/ssps-715a8.appspot.com/
o/1731417372225-task%203.pdf?alt=media&token=f956e6bb-a08b-4de4-b214
-969617f41a93",
        "type": "application/pdf"
    },
    {
        "id": "aaf27f83-9fe3-4a66-b2ec-5512fccfb48b",
        "userid": "1211d02a-df15-4365-9119-ef6371bdcd79",
        "filename": "1731417415083-task 3.pdf",

```

```

        "url":
"https://firebasestorage.googleapis.com/v0/b/ssps-715a8.appspot.com/
o/1731417415083-task%203.pdf?alt=media&token=d604f279-f5c2-449b-8238
-e4caeb22e9f4",
        "type": "application/pdf"
    },
    {
        "id": "7c301bf2-2563-48d7-b85e-31bfa05e1b25",
        "userid": "1211d02a-df15-4365-9119-ef6371bdcd79",
        "filename":
"1731417518509-Develop_a_Network_Application.pdf",
        "url":
"https://firebasestorage.googleapis.com/v0/b/ssps-715a8.appspot.com/
o/1731417518509-Develop_a_Network_Application.pdf?alt=media&token=59
8ad68e-44bc-4367-959e-daa683f84de4",
        "type": "application/pdf"
    },
    {
        "id": "2badae4d-494a-4977-9035-6cf46e6be0df",
        "userid": "1211d02a-df15-4365-9119-ef6371bdcd79",
        "filename": "1731430663171-Fundamental of Database
Systems.pdf",
        "url":
"https://firebasestorage.googleapis.com/v0/b/ssps-715a8.appspot.com/
o/1731430663171-Fundamental%20of%20Database%20Systems.pdf?alt=media&
token=d56913ac-a161-4ff1-9b38-b1304b8f4a57",
        "type": "application/pdf"
    },
    {
        "id": "82fbe314-d3d7-471a-9491-e23983d6e863",
        "userid": "1211d02a-df15-4365-9119-ef6371bdcd79",
        "filename": "1731430713524-Lab_1a_Network Devices.pdf",
        "url":
"https://firebasestorage.googleapis.com/v0/b/ssps-715a8.appspot.com/
o/1731430713524-Lab_1a_Network%20Devices.pdf?alt=media&token=81baa63
f-85f8-4731-aff3-6bfdc13b04a1",
        "type": "application/pdf"
    }
]
}

```

---

## 4. Get File by File ID

- **URL:** `http://localhost:3001/api/file/{fileId}`
- **Method:** `GET`

### Response:

```
{
  "status": 200,
  "message": "Get file successfully",
  "data": [
    {
      "id": "5adb03a5-f66f-4ea6-a980-727296d672e5",
      "userid": "c772fe36-bce3-4f9e-a4f6-00354a73bde5",
      "filename": "1730178142646-Chapter_6_v8.0.pdf",
      "url":
"https://firebasestorage.googleapis.com/v0/b/ssps-715a8.appspot.com/o/1730178142646-Chapter_6_v8.0.pdf?alt=media&token=c1ce78e4-0887-4ad2-bb6e-2fa65b56b6ba",
      "type": "application/pdf"
    }
  ]
}
```

---

## 5. Get All Files

- **URL:** `http://localhost:3001/api/file`
- **Method:** `GET`

### Response:

```
{
  "status": 200,
  "message": "Get all files successfully",
  "data": [
    {
      "id": "47e6e43d-67c0-4cca-9b18-c9a6994e1572",
      "userid": "0c6338fb-0901-4463-9469-62a714922377",
      "filename": "THTT_T5",
      "url":
"https://drive.google.com/file/d/1X-5sjKP71rYL57Qn1TFcMLpbHQQVlgmc/view?usp=drive_link",
      "type": "pdf"
    },
  ],
}
```

```
    ...  
  ]  
}
```

---

## 6. Delete File

- URL: `http://localhost:3001/api/file/delete`
- Method: `DELETE`

Request:

```
{  
  "fileId": "417fd4d1-697b-4fdb-ac54-413d71bba67a"  
}
```

Response:

```
{  
  "status": 200,  
  "message": "File deleted successfully",  
  "data": {  
    "id": "aecbb0ea-53a8-4079-9d98-dc7fe9736fa0",  
    "userid": "1211d02a-df15-4365-9119-ef6371bdcd79",  
    "filename": "1730135566564-Class.drawio.png",  
    "url":  
"https://firebasestorage.googleapis.com/v0/b/ssps-715a8.appspot.com/  
o/1730135566564-Class.drawio.png?alt=media&token=fc7b9b30-9148-4148-  
bc5b-8d553a359053",  
    "type": "image/png",  
    "numpage": null,  
    "isdeleted": true  
  }  
}
```

- 

---

## 7. Get User Profile

- URL: `http://localhost:3001/api/user/{userId}`
- Method: `GET`

Response:

```
{
```

```
"status": 201,
"message": "Get user profile successfully",
"data": {
  "id": "1211d02a-df15-4365-9119-ef6371bdcd79",
  "name": "bao3",
  "email": "bao3@123",
  "password":
"$2b$10$DCgFiRWAK20fVsPhIaZcHuGdGQEn44p8eUCyzgxJiIuT3degmDC..",
  "avatarurl":
"https://avatar.iran.liara.run/username?username=bao3",
  "role": "admin",
  "coinbalance": 0
}
```

---

## 8. Update User Profile

- **URL:** `http://localhost:3001/api/user/{userId}`
- **Method:** PATCH

### Request Body:

```
{
  "username": "bao3change1"
}
```

### Response:

```
{
  "status": 200,
  "message": "Update user profile successfully",
  "data": {
    "id": "c772fe36-bce3-4f9e-a4f6-00354a73bde5",
    "name": "bao3change1",
    "email": "bao5@123",
    "password":
"$2b$10$BheCpAX/n9cThC4dpDkPA.PJTWQ5kz6a3HdnCd2.mM.IMrM3Up1lW",
    "avatarurl":
"https://avatar.iran.liara.run/username?username=bao5",
    "role": "user",
    "coinbalance": 0
  }
}
```

**\*\*\* Route: /printjob**



## 1. Create Print Job ( For user )

- **URL:** `http://localhost:3001/api/printjob/createPrintJob`
- **Method:** `POST`

### Request Body:

```
{
  "fileid": "cf5a66d5-5626-4030-9cb6-a908ef7e8713",
  "numcopy": 1,
  "numpage": 6,
  "orientation": "portrait",
  "colortype": "Grayscale",
  "papersize": "A4",
  "pagepersheet": 1,
  "numside": 2,
  "printerid": "ea871c64-5ea9-468a-859b-653c501974d1"
}
```

### Response:

```
{
  "status": 201,
  "message": "PrintJob created",
  "data": {
    "printJob": {
      "id": "ef46bce7-8d8a-460b-ba76-9d8fb8ab591b",
      "printerid": "ea871c64-5ea9-468a-859b-653c501974d1",
      "userid": "0c6338fb-0901-4463-9469-62a714922377",
      "fileid": "cf5a66d5-5626-4030-9cb6-a908ef7e8713",
      "starttime": "2024-10-30T07:14:31.911Z",
      "papersize": "A4",
      "numpage": 6,
      "numside": 2,
      "numcopy": 1,
      "pagepersheet": 1,
      "colortype": "Grayscale",
      "orientation": "portrait",
      "status": "created"
    },
    "price": 6
  }
}
```

---

## 2. Start Print Job ( For user )

- **URL:** `http://localhost:3001/api/printjob/startPrintJob`
- **Method:** `POST`

### Request Body:

```
{
  "printJobId": "ef46bce7-8d8a-460b-ba76-9d8fb8ab591b"
}
```

### Response:

```
{
  "status": 200,
  "message": "Accept printing request",
  "data": {
    "id": "ef46bce7-8d8a-460b-ba76-9d8fb8ab591b",
    "printerid": "ea871c64-5ea9-468a-859b-653c501974d1",
    "userid": "0c6338fb-0901-4463-9469-62a714922377",
    "fileid": "cf5a66d5-5626-4030-9cb6-a908ef7e8713",
    "starttime": "2024-10-30T07:14:31.911Z",
    "papersize": "A4",
    "numpage": 6,
    "numside": 2,
    "numcopy": 1,
    "pagepersheet": 1,
    "colortype": "Grayscale",
    "orientation": "portrait",
    "status": "created"
  }
}
```

---

## 3. Get All Print Job ( For admin )

- **URL:**  
`http://localhost:3001/api/printjob/all?startDate={string}&endDate={string}&displayPage={number}&itemPerPage={number}`
- **Method:** `GET`

### Request Url example:

```
http://localhost:3001/api/printjob/all?startDate=2024-10-29T00:00:00
&endDate=2024-10-29T23:00:00&displayPage=1&itemPerPage=2
```

( Date string format: YYYY-MM-DDTHH:mm:ss )  
( displayPage và itemPerPage dùng để phân trang, trang được đánh số từ 1, truyền x vào displayPage để nhận printjob của trang x ).

**Response:**

```
{
  "status": 200,
  "message": "All history",
  "data": {
    "printJob": [
      {
        "id": "7ed7f2d9-2d62-4e19-b00a-40dd5185b4bc",
        "printerid": "ea871c64-5ea9-468a-859b-653c501974d1",
        "userid": "0c6338fb-0901-4463-9469-62a714922377",
        "fileid": "cf5a66d5-5626-4030-9cb6-a908ef7e8713",
        "starttime": "2024-11-09T08:44:02.596Z",
        "papersize": "A4",
        "numpage": 6,
        "numside": 2,
        "numcopy": 1,
        "pagepersheet": 1,
        "colortype": "Grayscale",
        "orientation": "portrait",
        "status": "success",
        "price": 6,
        "filename": "Final exam"
      },
      {
        "id": "166017f6-3a6d-40d5-9ebc-6edce87e6c3c",
        "printerid": "ea871c64-5ea9-468a-859b-653c501974d1",
        "userid": "0c6338fb-0901-4463-9469-62a714922377",
        "fileid": "cf5a66d5-5626-4030-9cb6-a908ef7e8713",
        "starttime": "2024-11-09T06:06:28.135Z",
        "papersize": "A4",
        "numpage": 6,
        "numside": 2,
        "numcopy": 1,
        "pagepersheet": 1,
        "colortype": "Grayscale",
        "orientation": "portrait",
        "status": "success",
```

```
        "price": 6,
        "filename": "Final exam"
    }
],
"totalItem": 18,
"totalPage": 9
}
}
```

---

#### 4. Get PrintJob by printJobId

- **URL:** `http://localhost:3001/api/printjob/{printjobId}`
- **Method:** GET

##### Response:

```
{
  "status": 200,
  "message": "PrintJob",
  "data": {
    "id": "ef46bce7-8d8a-460b-ba76-9d8fb8ab591b",
    "printerid": "ea871c64-5ea9-468a-859b-653c501974d1",
    "userid": "0c6338fb-0901-4463-9469-62a714922377",
    "fileid": "cf5a66d5-5626-4030-9cb6-a908ef7e8713",
    "starttime": "2024-10-30T07:14:31.911Z",
    "papersize": "A4",
    "numpage": 6,
    "numside": 2,
    "numcopy": 1,
    "pagepersheet": 1,
    "colortype": "Grayscale",
    "orientation": "portrait",
    "status": "success",
    "filename": "ABC"
  }
}
```

---

#### 5. Get PrintJob by UserId

- **URL:**  
`http://localhost:3001/api/printjob/user/{userId}?startDate={string}&endDate={string}&displayPage={number}&itemPerPage={number}`
- **Method:** GET

**Response:**

```
{
  "status": 200,
  "message": "All printjob of user",
  "data": {
    "printJob": [
      {
        "id": "7ed7f2d9-2d62-4e19-b00a-40dd5185b4bc",
        "printerid": "ea871c64-5ea9-468a-859b-653c501974d1",
        "userid": "0c6338fb-0901-4463-9469-62a714922377",
        "fileid": "cf5a66d5-5626-4030-9cb6-a908ef7e8713",
        "starttime": "2024-11-09T08:44:02.596Z",
        "papersize": "A4",
        "numpage": 6,
        "numside": 2,
        "numcopy": 1,
        "pagepersheet": 1,
        "colortype": "Grayscale",
        "orientation": "portrait",
        "status": "success",
        "price": 6,
        "filename": "Final exam"
      },
      {
        "id": "166017f6-3a6d-40d5-9ebc-6edce87e6c3c",
        "printerid": "ea871c64-5ea9-468a-859b-653c501974d1",
        "userid": "0c6338fb-0901-4463-9469-62a714922377",
        "fileid": "cf5a66d5-5626-4030-9cb6-a908ef7e8713",
        "starttime": "2024-11-09T06:06:28.135Z",
        "papersize": "A4",
        "numpage": 6,
        "numside": 2,
        "numcopy": 1,
        "pagepersheet": 1,

```

```
        "colortype": "Grayscale",
        "orientation": "portrait",
        "status": "success",
        "price": 6,
        "filename": "Final exam"
    }
],
"totalItem": 18,
"totalPage": 9
}
}
```

---

## 6. Get PrintJob by PrinterId

- **URL:**  
`http://localhost:3001/api/printjob/printer/{printerId}?startDate={string}&endDate={string}&displayPage={number}&itemPerPage={number}`
- **Method:** GET

### Response:

```
{
  "status": 200,
  "message": "All printjob of printer",
  "data": {
    "printJob": [
      {
        "id": "7ed7f2d9-2d62-4e19-b00a-40dd5185b4bc",
        "printerid": "ea871c64-5ea9-468a-859b-653c501974d1",
        "userid": "0c6338fb-0901-4463-9469-62a714922377",
        "fileid": "cf5a66d5-5626-4030-9cb6-a908ef7e8713",
        "starttime": "2024-11-09T08:44:02.596Z",
        "papersize": "A4",
        "numpage": 6,
        "numside": 2,
        "numcopy": 1,
        "pagepersheet": 1,

```

```

        "colortype": "Grayscale",
        "orientation": "portrait",
        "status": "success",
        "price": 6,
        "filename": "Final exam"
    },
    {
        "id": "166017f6-3a6d-40d5-9ebc-6edce87e6c3c",
        "printerid": "ea871c64-5ea9-468a-859b-653c501974d1",
        "userid": "0c6338fb-0901-4463-9469-62a714922377",
        "fileid": "cf5a66d5-5626-4030-9cb6-a908ef7e8713",
        "starttime": "2024-11-09T06:06:28.135Z",
        "papersize": "A4",
        "numpage": 6,
        "numside": 2,
        "numcopy": 1,
        "pagepersheet": 1,
        "colortype": "Grayscale",
        "orientation": "portrait",
        "status": "success",
        "price": 6,
        "filename": "Final exam"
    }
],
"totalItem": 18,
"totalPage": 9
}
}

```

---

## 7. Get Total Page of user by UserId

- **URL:**  
<http://localhost:3001/api/printjob/totalPage/{userId}?startDate={string}&endDate={string}&paperSize={string}&byMonth={true}>
- **Or: (for admin, get all user)**  
<http://localhost:3001/api/printjob/totalPage/all?startDate={string}&endDate={string}&paperSize={string}&byMonth={true}>
- **Method:** GET

**Response:**

```
{
  "status": 200,
  "message": "Total printed page of user",
  "data": 24
}
```

Hoặc

```
{
  "status": 200,
  "message": "Total printed page of user",
  "data": [
    {
      "month": "2024-11",
      "totalPage": 12
    },
    {
      "month": "2024-10",
      "totalPage": 33
    }
  ]
} (Nếu byMonth = true)
```

**8. Get TotalUser ( For admin )**

- **URL:**  
`http://localhost:3001/api/printjob/totalUser?startDate={string}&endDate={string}&byMonth={true}`
- **Method:** GET

**Response:**

```
{
  "status": 200,
  "message": "Total user",
  "data": 2
}
```

Hoặc

```
{
  "status": 200,
  "message": "Total user",
  "data": [
    {
      "month": "2024-11",
```



```

        "totalUser": 4
    },
    {
        "month": "2024-10",
        "totalUser": 2
    }
]
}
( Nếu byMonth = true)

```

## 9. Get totalFilebyType ( For admin )

- **URL:**  
<http://localhost:3001/api/printjob/totalFilebyType?startDate={string}&endDate={string}&types={list}>
- **Method:** GET

### Response:

```

{
    "status": 200,
    "message": "Total File by Type",
    "data": [
        {
            "type": "pdf",
            "totalFile": 11
        },
        {
            "type": "word",
            "totalFile": 0
        },
        {
            "type": "png",
            "totalFile": 2
        }
    ]
}

```

## 10. Get printerUsageFrequency ( For admin )

- **URL:**  
<http://localhost:3001/api/printjob/printerUsageFrequency/{printerId}?startDate={string}&endDate={string}>
- **Method:** GET

**Response:**

```
{
  "status": 200,
  "message": "Printer usage frequency by day",
  "data": [
    {
      "date": "2024-11-15",
      "usageCount": 1
    },
    {
      "date": "2024-11-09",
      "usageCount": 2
    },
    {
      "date": "2024-11-02",
      "usageCount": 2
    }
  ]
}
```

**11. Get filePrintRequestFrequency( For admin )**

- **URL:**  
`http://localhost:3001/api/printjob/filePrintRequestFrequency/?startDate={string}&endDate={string}`
- **Method:** GET

**Response:**

```
{
  "status": 200,
  "message": "File print request frequency by day",
  "data": [
    {
      "date": "2024-11-15",
      "filePrintRequests": 20
    },
    {
      "date": "2024-11-14",
      "filePrintRequests": 3
    }
  ]
}
```

### \*\*\* Route: /report

## 2. Generate monthly report

- URL: `http://localhost:3001/api/report/generateMonthlyReport`
- Method: POST

### Request Body:

```
{
  "name": "November report",
  "type": "monthly",
  "description": "Report all action",
  "reportDate": "2024-11-15"
}
```

( type: only "monthly" or "yearly", reportDate format: YYYY-MM or YYYY-MM-DD ).

### Response:

```
{
  "status": 201,
  "message": "Report created",
  "data": {
    "newReport": {
      "id": "258850cd-7a60-4ba4-b0a5-2f13120068fa",
      "name": "November report",
      "createtime": "2024-11-07T09:10:49.559Z",
      "type": "monthly",
      "description": "Report all action"
    },
    "allEvent": [
      {
        "id": "11aa7095-bfd7-43cd-b6af-146b7fa3e6a4",
        "userid": "1211d02a-df15-4365-9119-ef6371bdcd79",
        "createtime": "2024-11-05T01:35:17.757Z",
        "type": "print document",
        "description": "print 3 pages, printJobId:
7127-nas98-..."
      },
      {
        "id": "3037f08a-1784-4601-910b-612a3fb9244d",
        "userid": "1211d02a-df15-4365-9119-ef6371bdcd79",
```

```
        "createtime": "2024-11-07T09:08:21.073Z",
        "type": "payment",
        "description": "Nap 100 coin tu BKPay"
    }
]
}
}
```

### 3. Generate yearly report

- **URL:** `http://localhost:3001/api/report/generateYearlyReport`
- **Method:** POST

#### Request Body:

```
{
  "name": "2024 report",
  "type": "yearly",
  "description": "Report all action",
  "reportDate": "2024-11-15"
}
```

**Response:** Same as generate monthly report.

### 4. Get all report

- **URL:**  
`http://localhost:3001/api/report?startDate={string}&endDate={string}`
- **Method:** GET

#### Request Url example:

`http://localhost:3001/api/report/?startDate=2024-11-05T00:00:00&endDate=2024-11-05T23:00:00`

#### Response:

```
{
  "status": 200,
  "message": "All report",
}
```

```

    "data": [
      {
        "id": "5ec14366-3158-47c1-8d9a-5629497c88b9",
        "name": "Monthly report 09/2024",
        "createtime": "2024-11-05T01:44:27.484Z",
        "type": "monthly",
        "description": "Report all action"
      }
    ]
  }
}

```

## 5. Get report by report id.

- **URL:** `http://localhost:3001/api/report/{reportId}`
- **Method:** `GET`

### Response:

```

{
  "status": 200,
  "message": "Report and all events of the report",
  "data": {
    "report": {
      "id": "5ec14366-3158-47c1-8d9a-5629497c88b9",
      "name": "Monthly report 09/2024",
      "createtime": "2024-11-05T01:44:27.484Z",
      "type": "monthly",
      "description": "Report all action"
    },
    "event": [
      {
        "eventid": "11aa7095-bfd7-43cd-b6af-146b7fa3e6a4",
        "userid": "1211d02a-df15-4365-9119-ef6371bdcd79",
        "createtime": "2024-11-05T01:35:17.757Z",
        "type": "print document",
        "description": "print 3 pages, printJobId:
7127-nas98-..."
      },
      {
        "eventid": "d057fc89-b2ac-4c6b-9dec-cd8017b60847",
        "userid": "0c6338fb-0901-4463-9469-62a714922377",
        "createtime": "2024-11-05T01:36:18.736Z",

```

```
        "type": "Nap tien",
        "description": "Nap 100 coin tu BKPay"
    }
]
}
}
```

## 6. Update report by report id.

- **URL:** `http://localhost:3001/api/report/{reportId}`
- **Method:** `PATCH`

### Request Body:

```
{
  "name": "Report Sep 2024",
  "description": "First update"
}
```

### Response:

```
{
  "status": 200,
  "message": "Update report successfully",
  "data": {
    "id": "5ec14366-3158-47c1-8d9a-5629497c88b9",
    "name": "Report Sep 2024",
    "createtime": "2024-11-05T01:44:27.484Z",
    "type": "monthly",
    "description": "First update"
  }
}
```

## 7. Delete report by report id.

- **URL:** `http://localhost:3001/api/report/{reportId}`
- **Method:** `DELETE`

### Response:

```
{
  "status": 200,
  "message": "Delete report successfully",
  "data": {
    "deletedReport": [
      {

```

```

        "id": "c6e8af94-8374-4c24-bb31-9ecf8c406660",
        "name": "Test report",
        "createtime": "2024-11-07T09:22:12.535Z",
        "type": "monthly",
        "description": "Report all action"
    }
],
"deletedEvents": [
    {
        "id": "57e3a85a-2a8c-4ad5-b986-81ba07454e6c",
        "reportid": "c6e8af94-8374-4c24-bb31-9ecf8c406660",
        "eventid": "11aa7095-bfd7-43cd-b6af-146b7fa3e6a4"
    },
    {
        "id": "318d3ec2-0dd0-42a3-8162-d46542911d2b",
        "reportid": "c6e8af94-8374-4c24-bb31-9ecf8c406660",
        "eventid": "d057fc89-b2ac-4c6b-9dec-cd8017b60847"
    }
]
}

```

### **/printer Router (Printer controller)**

#### **1. Get all printers:**

- GET request: /api/printer
- Response:

```

{
    "status": 200,
    "message": "Get all printers successfully",
    "data": [
        {
            "id": "aa037df8-8d8e-4989-af20-372192c0584c",
            "brand": "Vinfast",
            "model": "VF666",
            "shortdescription": "Fast",
            "status": "Enable",
            "locationid": null
        },
        {
            "id": "373bd24c-d22a-400a-8dc6-7cf84af632bf",

```

```

        "brand": "HP",
        "model": "XYZ",
        "shortdescription": null,
        "status": "enabled",
        "locationid": null
    }
]
}

```

## 2. GET printers by ID:

- GET request: /api/printer/:id
- Response:

```

{
    "status": 200,
    "message": "Get printer successfully",
    "data": {
        "id": "ea871c64-5ea9-468a-859b-653c501974d1",
        "brand": "4321",
        "model": "SVD34",
        "shortdescription": "HIHI",
        "status": "Enable",
        "locationid": null
    }
}

```

## 3. Create new printer:

- POST request: /api/printer.
- Body:
  - brand, model, status are mandatory;
  - id is auto-generated;
  - shortDescription, locationID are optional;

```

{
    "brand": "fasda",
    "model": 345,
    "status": "enabled"
}

```

- Response:

```

{
    "status": 200,
    "message": "Get printer successfully",
}

```



```

    "data": {
      "id": "ea871c64-5ea9-468a-859b-653c501974d1",
      "brand": "4321",
      "model": "SVD34",
      "shortdescription": "HIHI",
      "status": "Enable",
      "locationid": null
    }
  }
}

```

#### 4. Delete a printer:

- DELETE request: /api/printer/:id
- Response:

```

{
  "status": 200,
  "message": "Delete successfully",
  "data": {
    "id": "b7f950f0-7b1c-4c9e-bbf8-188406adfe3f",
    "brand": "fasda",
    "model": "345",
    "shortdescription": null,
    "status": "enabled",
    "locationid": null
  }
}

```

#### 5. Update a printer:

- PATCH request: /api/printer/:id
- Body:

```
{ status: "enabled" }
```

- Response:

```

{
  "status": 200,
  "message": "Update successfully",
  "data": {
    "id": "aa037df8-8d8e-4989-af20-372192c0584c",
    "brand": "Vinfast",
    "model": "VF666",
    "shortdescription": "Fast",
    "status": "disabled",
  }
}

```

```
        "locationid": null
    }
}
```

## Router Config /api/config

### 1.GET request: /api/config

- Desc: Get all permitted files and the default number of given pages.
- Example Response:

```
{
  "status": 200,
  "message": "Get configuration successfully!",
  "data": {
    "permittedFiles": [
      {
        "type": "doc",
        "isenable": true
      },
      {
        "type": "docx",
        "isenable": true
      },
      {
        "type": "xls",
        "isenable": false
      },
      {
        "type": "pdfx",
        "isenable": false
      }
    ],

```

```
        "config": {
            "defaultnumpage": 10,
            "dategivenpage":
"2024-11-04T17:00:00.000Z"
        }
    }
}
```

## 2.GET request: /api/config/filetype

- Desc: Get all permitted file types.
- Example Response:

```
{
    "status": 200,
    "message": "Get permitted file types
successfully!",
    "data": [
        {
            "type": "doc",
            "isenable": true
        },
        {
            "type": "docx",
            "isenable": true
        },
        {
            "type": "xls",
            "isenable": false
        },
        {
            "type": "pdfx",
```

```
        "isable": false
    }
]
```

### 3. POST request: /api/config/filetype

- Desc: Add a new permitted file type.
- Request body:

```
{
    "type": "xls",
    "isable": "false"
}
```

- Example response:

### 4. PATCH request: /api/config/filetype/:type

- Desc: Update a filetype config.(Authorized first)
- Example request: /api/config/filetype/pdfx

```
{
    "isable": "false",
    "type": "pdf"
}
```

- Example response:

```
{
    "status": 200,
    "message": "Permitted file updated
successfully!",
    "data": {
        "type": "pdf",
        "isable": false
    }
}
```

#### 5.DELETE request: /api/config/filetype/:type

- Desc: Delete a permitted file type.
- Example response:

```
{  
  "status": 200,  
  "message": "Delete permitted file type  
successfully!",  
  "data": {  
    "type": "doc",  
    "isenable": true  
  }  
}
```

#### 6.GET request: /api/config/page

- Desc: Get page configuration settings.
- Response:

```
{  
  "status": 200,  
  "message": "Get permitted file types  
successfully!",  
  "data": {  
    "defaultnumpage": 15,  
    "dategivenpage": "2024-12-14T17:00:00.000Z"  
  }  
}
```

#### 7.PATCH request: /api/config/page

- Desc: Update Page configuration (defaultNumPage, dateGivenPage).
- Example request:

```
{
```

```
    "dategivenpage": 12,
    "defaultnumpage": "2024-12-25"
}
```

Note: attribute name are CASE-SENSITIVE

- Example Response:

```
{
  "status": 200,
  "message": "Update page config successfully.",
  "data": {
    "id": 1,
    "defaultnumpage": 15,
    "dategivenpage": "2024-12-25T17:00:00.000Z"
  }
}
```

## Router Payment /api/payment

### 1. GET all payment: GET request (/api/payment)

- Description: get all payment
- Response:

```
{
  "status": 200,
  "message": "Get all payment successfully.",
  "data": [
    {
      "id": "bbf3d89f-7561-4dd6-9dfe-5dbff3c2cf02",
      "user_id": "c2bcbedc-34bf-4451-b5dc-2188ee826cc8",
      "amount": 12,
      "timestamp": "2024-11-09T08:13:47.155Z"
    }
  ]
}
```

## 2. GET payment by user\_id:

- Description: get payment by user\_id
- Request: GET /api/payment/:user\_id?page=1&limit=4
- Example Response: GET  
/api/payment/c2bcbedc-34bf-4451-b5dc-2188ee826cc8?page=1&limit=4

```
{  
  "status": 200,  
  "message": "Get payment by user ID successfully.",  
  "data": [  
    {  
      "id": "bbf3d89f-7561-4dd6-9dfe-5dbff3c2cf02",  
      "user_id": "c2bcbedc-34bf-4451-b5dc-2188ee826cc8",  
      "amount": 12,  
      "timestamp": "2024-11-09T08:13:47.155Z"  
    },  
    {  
      "id": "bde235fd-7922-41e0-a809-852f2b580321",  
      "user_id": "c2bcbedc-34bf-4451-b5dc-2188ee826cc8",  
      "amount": 12,  
      "timestamp": "2024-11-09T08:42:40.084Z"  
    },  
    {  
      "id": "dfc161be-0ce3-4873-aaed-f55734cea217",  
      "user_id": "c2bcbedc-34bf-4451-b5dc-2188ee826cc8",  
      "amount": 12,  
      "timestamp": "2024-11-09T08:42:59.655Z"  
    },  
    {  
      "id": "1924cbf3-e3ee-4dc0-b895-cd2aa33e6916",  
      "user_id": "c2bcbedc-34bf-4451-b5dc-2188ee826cc8",  
      "amount": 12,  
      "timestamp": "2024-11-09T09:03:58.272Z"  
    }  
  ]  
}
```

```
]
}
```

### 3. Insert a payment:

- Request: POST request /api/payment
- Request Body:

```
{
  "user_id":
  "c2bcbedc-34bf-4451-b5dc-2188ee826cc8",
  "amount": 12
}
```

- Response:

```
{
  "status": 200,
  "message": "Insert payment successfully.",
  "data": {
    "user": {
      "id": "c2bcbedc-34bf-4451-b5dc-2188ee826cc8",
      "coinBalance": 61
    },
    "payment": {
      "id": "63cbe9c1-8d93-45f5-9757-8c5a8f366d4a",
      "user_id":
      "c2bcbedc-34bf-4451-b5dc-2188ee826cc8",
      "amount": 10,
      "timestamp": "2024-11-09T09:33:05.112Z"
    }
  }
}
```

## Router Location /api/location

### 1. GET request: /api/location



- Desc: Get all locations

- Response:

```
{
  "status": 200,
  "message": "Get locations successfully",
  "data": [
    {
      "id": "fcbc893a-9b9c-48bb-b0c0-a9667208f734",
      "campusname": "LTK",
      "buildingname": "B2",
      "roomnumber": 202
    }
  ]
}
```

## 2. GET request: /api/location?campusname=LTK

- Desc: get locations based on campusname, buildingname, roomnumber, id.

- Example: GET request: <http://localhost:3001/api/location?campusname=LTK>

- Response:

```
{
  "status": 200,
  "message": "Get locations successfully",
  "data": [
    {
      "id": "fcbc893a-9b9c-48bb-b0c0-a9667208f734",
      "campusname": "LTK",
      "buildingname": "B2",
      "roomnumber": 202
    }
  ]
}
```

### 3. POST request: /api/location

- Desc: Insert a location.
- Request body:

```
{  
  "campusname": "LTK",  
  "buildingname": "B2",  
  "roomnumber": 202  
}
```

Note: campusname must be 'LTK' or 'DA'

- Response:

```
{  
  "status": 201,  
  "message": "Location added successfully",  
  "data": {  
    "id": "fcbc893a-9b9c-48bb-b0c0-a9667208f734",  
    "campusname": "LTK",  
    "buildingname": "B2",  
    "roomnumber": 202  
  }  
}
```

### 4. Update location

- PATCH request: /api/location/:id
- Example request:

http://localhost:3001/api/location/fcbc893a-9b9c-48bb-b0c0-a9667208f734

```
{  
  "campusname": "LTK",  
  "buildingname": "H6",  
  "roomnumber": 1511  
}
```

- Response:

```
{  
  "status": 200,
```

```
"message": "Update location successfully",
"data": {
  "id": "fcbc893a-9b9c-48bb-b0c0-a9667208f734",
  "campusname": "LTK",
  "buildingname": "H6",
  "roomnumber": 1511
}
}
```

## 5. Delete location:

- Delete request: `/api/location/:id`