Project RESTful API

Setup dan Konfigurasi

Database

- Buatlah sebuah database baru
- Restore file project.sql ke dalam database yang baru saja dibuat
- Buka file config/app.go, ubah masing-masing konstanta DbUser, DbPassword dan DbName ke username, password dan nama database

Server File Upload Directory

• Secara default, file akan diupload ke folder "uploads". Buka file config/app.go dan ubah konstanta UploadDir ke folder yang diinginkan

Instruksi Penggunaan

- Gunakan tool Postman untuk melakukan review
- Postman collection tersedia di dalam source code repository. Gunakan menu File |
 Import dan memilih file 20241108Project.postman_collection.json

API Endpoints

a. Kategori Barang

1. GET /api/categories

```
Contoh response:
 {
     "success": true,
     "status_code": 200,
     "data": [
          {
              "id": 1,
              "name": "Peralatan Kantor",
              "description": "Kategori untuk peralatan kantor"
         },
              "id": 3,
              "name": "Peralatan Elektronis",
              "description": "Peralatan elektronik kantor"
         }
     ]
 }
```

2. POST /api/categories

```
Contoh request:
    {
        "name": "Peralatan Housekeeping",
        "description": "Kategori untuk peralatan housekeeping"
    }
  Contoh response sukses:
    {
        "success": true,
        "status_code": 201,
        "message": "Kategori berhasil ditambahkan",
        "data": {
            "id": 4,
            "name": "Peralatan Kebersihan",
            "description": "Kategori untuk peralatan kebersihan"
        }
    }
  Contoh response gagal:
    {
        "success": false,
        "status_code": 422,
        "message": "Nama kategori maksimal 20 karakter"
    }
3. GET /api/categories/{id}
  Contoh response sukses:
    {
        "success": true,
        "status_code": 200,
        "data": {
            "id": 3,
            "name": "Peralatan Elektronis",
            "description": "Peralatan elektronik yang digunakan di kantor"
        }
    }
```

```
Contoh response gagal:
    {
        "success": false,
        "status_code": 404,
        "message": "Kategori tidak ditemukan"
4. PUT /api/categories/{id}
  Contoh request:
    {
        "name": "Peralatan Elektronik",
        "description": "Peralatan elektronik yang digunakan di kantor"
    }
  Contoh response sukses:
        "success": true,
        "status_code": 201,
        "message": "Kategori berhasil diperbarui",
        "data": {
            "id": 3,
            "name": "Peralatan Elektronik",
            "description": "Peralatan elektronik yang digunakan di kantor"
        }
    }
  Contoh response gagal:
    {
        "success": false,
        "status_code": 422,
        "message": "Nama kategori maksimal 20 karakter"
    }
```

5. DELETE /api/categories/{id}

b. Laporan Investasi dan Depresiasi

1. GET /api/items/investment

2. GET /api/items/investment/1

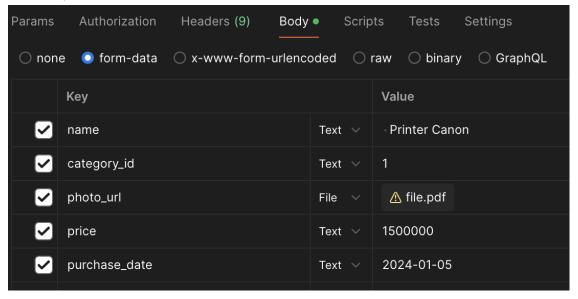
c. Manajemen Barang

1. GET /api/items?search=01&page=1&limit=3

```
Contoh response:
 {
     "success": true,
     "page": 1,
     "limit": 3.
     "total_items": 11,
     "total_pages": 4,
     "data": [
         {
              "id": 10,
              "name": "Item 010",
              "category": "Peralatan Elektronis",
              "photo_url": "/images/ten.jpg",
             "price": "JDEyMCwwMDAuMDA=",
             "purchase_date": "2024-10-04T00:00:00Z",
              "total_usage_days": 0
         },
         {
              "id": 11,
              "name": "Item 011",
              "category": "Peralatan Kantor",
              "photo_url": "/images/eleven.jpg",
              "price": "JDI0MCwwMDAuMDA=",
              "purchase_date": "2024-09-19T00:00:00Z",
              "total_usage_days": 0
         },
              "id": 12,
              "name": "Item 012",
              "category": "Peralatan Elektronis",
              "photo_url": "/images/twelve.jpg",
              "price": "JDE1NSwwMDAuMDA=",
              "purchase_date": "2024-07-07T00:00:00Z",
              "total_usage_days": 0
         }
     1
 }
```

2. POST /api/items

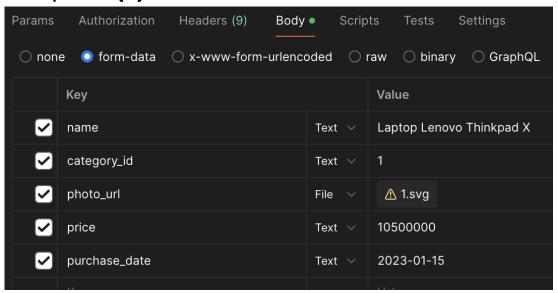
Contoh request:



```
Contoh response sukses:
 {
     "success": true,
     "message": "Barang berhasil ditambahkan",
      "data": {
          "id": 2,
          "name": " Printer Canon",
          "category": "",
         "photo_url":
 "http://localhost:8080/assets/4c8ad5f5-bee7-4222-9c1b-fa79257bb0b8.pdf",
          "price": "1500000",
          "purchase_date": "2024-01-05",
         "total_usage_days": 0
     }
 }
Contoh response gagal:
 {
     "success": false,
     "status_code": 422,
     "message": "Photo processing failed"
 }
```

3. GET /api/items/{id}

4. PUT /api/items/{id}



```
Contoh response sukses:
    {
        "success": true,
        "status_code": 200,
        "message": "Barang berhasil diperbarui",
        "data": {
            "id": 5,
            "name": "Laptop Lenovo Thinkpad X",
            "category": "",
            "photo_url":
    "http://localhost:8080/assets/9a9f2bfb-fb3b-418b-aee1-8ec312160863.svg",
            "price": "10500000",
            "purchase_date": "2023-01-15",
            "total_usage_days": 0
       }
   }
  Contoh response gagal:
    {
        "success": false,
        "status_code": 422,
        "message": "Photo processing failed"
   }
5. DELETE /api/items/{id}
  Contoh response sukses:
    {
        "success": true,
        "status_code": 200,
        "message": "Barang berhasil dihapus"
   }
  Contoh response gagal:
    {
        "success": false,
        "status_code": 404,
        "message": "Barang tidak ditemukan"
   }
```