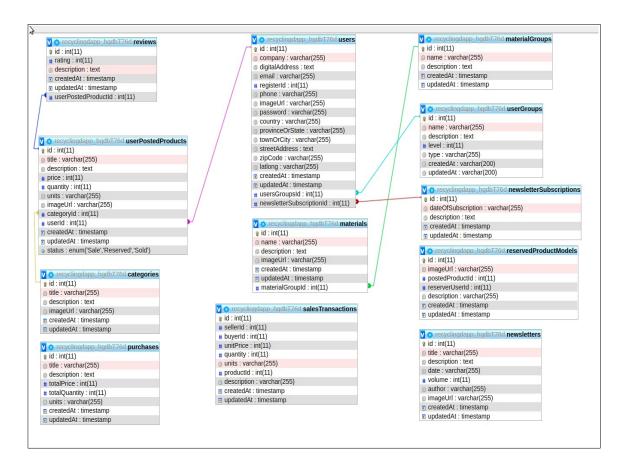
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# 1. Hosting and Domain - Tobb Technologies

https://vcfdt6yh.recyclingdapp.xyz/api/{collection}/???

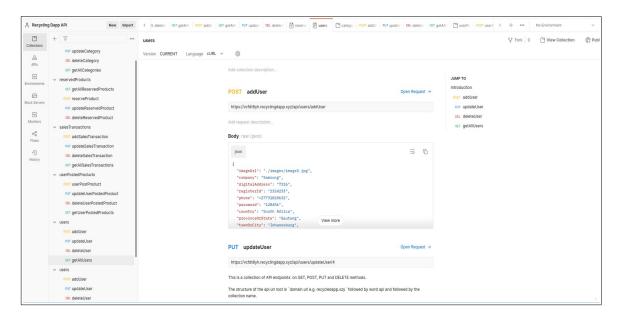
### 2. Database Schema



# 3. System Interactions

- a) register users groups.
- b) register users. A user belongs to a user group
- c) register waste material categories
- d) Users actions
- users login to system (get a user -supply password, username, etc)
- users post waste materials from different categories e.g. metal, paper, glass, etc. UserPostedProducts)
- users reserve posted materials
- users perform sales transactions
- e) Reports
- sales
- posted materials
- bought materials
- reserved materials
- newsletter subscriptions

# 4. API Endpoints



Testing can be via Postman or via Curl at the OS terminal

## A: POSTMAN

#### 1. Categories

categories

This is a categories collection API on retrieve, add, update and delete material/products categories like paper, metal, glass, etc

The structure of the api url root is `domain url e.g. recycledapp.xzy` followed by word api and followed by the collection name.

For the local host pass in the port as shown on the example.

**POST** 

addCategory

https://vcfdt6yh.recyclingdapp.xyz//api/categories/addCategory

Add a category to the database API cURL call. This endpoint requires caller to pass in a json object with correct table fields

```
Bodyraw (json)
json
{
```

```
"title": "Cloths Waste Materials",
  "imageUrl": "./glassImages/image11.jpg",
  "description": "Clothing waste materials "
PUT
updateCategory
https://vcfdt6yh.recyclingdapp.xyz//api/categories/updateCategory/2
This is an update endpoint. Callers need to pass in json object as
demonstrated here.
For the update pass in the request parameter id which is the primary key
id of the row in a table.
Bodyraw (json)
json
  "imageUrl": "./buildingImages/image8.jpg"
DEL
deleteCategory
https://vcfdt6yh.recyclingdapp.xyz//api/categories/deleteCategory/5
For the delete pass in the request parameter id which is the primary key
id of the row in a table.
GET
getAllCategories
https://vcfdt6yh.recyclingdapp.xyz//api/categories/allCategories
This is an endpoint to get all records from the collection table. The
return result is a json object containing all rows from the table.
   Reserved Products
reservedProducts
This is a collection of API endpoints: on GET, POST, PUT and DELETE
methods.
The structure of the api url root is `domain url e.g. recycledapp.xzy`
followed by word api and followed by the collection name.
For the local host pass in the port as shown on the example.
GET
```

```
getAllReservedProducts
https://vcfdt6yh.recyclingdapp.xyz//api/reservedProducts/
allReservedProducts
POST
reserveProduct
https://vcfdt6yh.recyclingdapp.xyz//api/reservedProducts/reserveProduct
Bodyraw (json)
json
  "imageUrl": "./reservedProductsImages/image45.jp",
  "postedProductId": 3,
"reserverUserId": 2,
  "description": "Reserve waste bottles for Coca cola"
}
PUT
updateReservedProduct
https://vcfdt6yh.recyclingdapp.xyz//api/reservedProducts/
updateReservedProduct/2
Bodyraw (json)
json
  "imageUrl": "./reservedProductsImages/image22.jp",
  "postedProductId": 3,
  "reserverUserId": 3,
  "description": "Reserve testing "
}
DEL
deleteReservedProduct
https://vcfdt6yh.recyclingdapp.xyz//api/reservedProducts/
deleteReservedProduct/4
3. Sales Transactions
salesTransactions
This is a collection of API endpoints: on GET, POST, PUT and DELETE
methods.
The structure of the api url root is `domain url e.g. recycledapp.xzy`
followed by word api and followed by the collection name.
For the local host pass in the port as shown on the example.
```

```
POST
addSalesTransaction
https://vcfdt6yh.recyclingdapp.xyz//api/salesTransactions/
addSalesTransaction
Bodyraw (json)
json
  "sellerId": 1,
  "buyerId": 3,
  "unitPrice": 15,
"quantiy": 200,
"units": "tonnes",
  "productId": 4,
  "description": "Samsung buys Standard Bank waste bricks"
}
PUT
updateSalesTransaction
https://vcfdt6yh.recyclingdapp.xyz//api/salesTransactions/
updateSalesTransaction/2
Bodyraw (json)
json
  "sellerId": 1,
  "buyerId": 3,
  "unitPrice": 15,
  "quantity": 200,
  "units": "tonnes",
  "productId": 4,
  "description": "Samsung buys Standard Bank waste bricks"
}
DEL
deleteSalesTransaction
https://vcfdt6yh.recyclingdapp.xyz//api/salesTransactions/
deleteSalesTransaction/3
GFT
getAllSalesTransactions
https://vcfdt6yh.recyclingdapp.xyz//api/salesTransactions/
allSalesTransactions
4. Users Posted waste Products
```

```
userPostedProducts
This is a collection of API endpoints: on GET, POST, PUT and DELETE
methods.
The structure of the api url root is `domain url e.g. recycledapp.xzy`
followed by word api and followed by the collection name.
For the local host pass in the port as shown on the example.
POST
userPostProduct
https://vcfdt6yh.recyclingdapp.xyz//api/userPostedProducts/userPostProduct
Bodyraw (json)
json
  "title": "Broken Laptops and Tablets",
  "imageUrl": "./laptopsImages/image19.jpg",
  "price": 10,
  "quantity": 100,
"units": "kg",
  "description": "Samsung is disposing for recycling",
  "categoryId": 6,
  "userId": 3
}
PUT
updateUserPostedProduct
https://vcfdt6yh.recyclingdapp.xyz//api/userPostedProducts/
updateUserPostedProduct/3
Bodyraw (json)
json
  "imageUrl": "./bottlesImages/image88.jpg"
}
DEL
deleteUserPostedProduct
https://vcfdt6yh.recyclingdapp.xyz//api/userPostedProducts/
deleteUserPostedProduct/6
GET
getUserPostedProducts
https://vcfdt6yh.recyclingdapp.xyz//api/userPostedProducts/
allUsersPostedProducts
```

```
5. Users (Households, Organizations, Companies, etc)
users
This is a collection of API endpoints: on GET, POST, PUT and DELETE
methods.
The structure of the api url root is `domain url e.g. recycledapp.xzy`
followed by word api and followed by the collection name.
For the local host pass in the port as shown on the example.
POST
addUser
https://vcfdt6yh.recyclingdapp.xyz//api/users/addUser
Bodyraw (json)
json
  "imageUrl": "./images/image3.jpg",
"company": "Samsung",
  "digitalAddress": "7216",
  "registerId": "2324233"
  "phone": "+27731820632",
  "password": "128456",
  "country": "South Africa",
  "provinceOrState": "Gauteng",
  "townOrCity": "Johanesburg",
  "streetAddress": "097 Gilbert Street",
  "zipCode": 2100,
  "latlong": "-26.0145589, 28.1273711",
  "usersGroupsId": 4
}
PUT
updateUser
https://vcfdt6yh.recyclingdapp.xyz//api/users/updateUser/4
This is a collection of API endpoints: on GET, POST, PUT and DELETE
methods.
The structure of the api url root is `domain url e.g. recycledapp.xzy`
followed by word api and followed by the collection name.
For the local host pass in the port as shown on the example.
Bodyraw (json)
json
  "imageUrl": "./images/image5.jpg",
```

```
"company": "Mercer",
  "digitalAddress": "4437216",
  "registerId": "234424233",
  "phone": "+277431820632",
  "password": "1228456",
  "country": "South Africa",
  "provinceOrState": "Gauteng",
  "townOrCity": "Johanesburg"
  "streetAddress": "997 Musa Street",
  "zipCode": 2100,
  "latlong": "-26.0145539, 28.1278711",
  "usersGroupsId": 1
}
DEL
deleteUser
https://vcfdt6yh.recyclingdapp.xyz//api/users/deleteUser/4
GET
getAllUsers
https://vcfdt6yh.recyclingdapp.xyz//api/users/allUsers
6. Users Groups( Endpoints for processing groups)
usersGroups
This is a collection of API endpoints: on GET, POST, PUT and DELETE
methods.
The structure of the api url root is `domain url e.g. recycledapp.xzy`
followed by word api and followed by the collection name.
For the local host pass in the port as shown on the example.
P<sub>0</sub>ST
addUsersGroup
https://vcfdt6yh.recyclingdapp.xyz//api/usersGroups/addUserGroup
This is a collection of API endpoints: on GET, POST, PUT and DELETE
methods.
The structure of the api url root is `domain url e.g. recycledapp.xzy`
followed by word api and followed by the collection name.
For the local host pass in the port as shown on the example.
Bodyraw (json)
json
```

```
"name": "Household",
  "level": 1,
  "description": "This group is for people and small companies selling
waste",
  "type": "metal"
PUT
updateUsersGroup
https://vcfdt6yh.recyclingdapp.xyz//api/usersGroups/updateUserGroup/1
Bodyraw (json)
json
  "name": "Enterprise",
  "level": 1,
  "description": "Enterprise waster paper collectors",
  "type": "paper"
}
DEL
deleteUserGroup
https://vcfdt6yh.recyclingdapp.xyz//api/usersGroups/deleteUserGroup/2
GET
getAllUsersGroups
https://vcfdt6yh.recyclingdapp.xyz//api/usersGroups/allUsersGroups
curl --location --request GET
'https://vcfdt6yh.recyclingdapp.xyz/api/users/allUsers'
```

#### **B: CURL**

usersGroups

POSTaddUsersGroup

https://vcfdt6yh.recyclingdapp.xyz/api/usersGroups/addUserGroup

This is a collection of API endpoints: on GET, POST, PUT and DELETE methods.

The structure of the api url root is `domain url e.g. recycledapp.xzy` followed by word api and followed by the collection name.

For the local host pass in the port as shown on the example.

```
BODYraw
   "name": "Household",
   "level":1,
   "description": "This group is for people and small companies selling
waste",
   "type": "metal"
Example Request
addUsersGroup
curl --location --request POST
'https://vcfdt6yh.recyclingdapp.xyz/api/usersGroups/addUserGroup' \
--data-raw '{
   "name": "Household",
   "level":1,
   "description": "This group is for people and small companies selling
waste",
   "type":"metal"
PUTupdateUsersGroup
https://vcfdt6yh.recyclingdapp.xyz/api/usersGroups/updateUserGroup/1
BODYraw
{
   "name": "Enterprise",
   "level":1,
   "description": "Enterprise waster paper collectors",
   "type": "paper"
}
Example Request
updateUsersGroup
curl --location --request PUT
'https://vcfdt6yh.recyclingdapp.xyz/api/usersGroups/updateUserGroup/1' \
--data-raw '{
   "name": "Enterprise",
   "level":1,
   "description": "Enterprise waster paper collectors",
   "type": "paper"
DELdeleteUserGroup
https://vcfdt6yh.recyclingdapp.xyz/api/usersGroups/deleteUserGroup/2
Example Request
deleteUserGroup
```

curl --location --request DELETE

'https://vcfdt6yh.recyclingdapp.xyz/api/usersGroups/deleteUserGroup/2'

**GETgetAllUsersGroups** 

https://vcfdt6yh.recyclingdapp.xyz/api/usersGroups/allUsersGroups

Example Request

getAllUsersGroups

curl --location --request GET
'https://vcfdt6yh.recyclingdapp.xyz/api/usersGroups/allUsersGroups'

C: ONLINE LIVE Endpoints

a) userPostedProducts

https://documenter.getpostman.com/view/25064789/2s8Z6zzXkj

b) salesTransactions

https://documenter.getpostman.com/view/25064789/2s8Z6zzrYo