YouCycle API

http://127.0.0.1:5000/youcycle/user

GET

Description
Get a user's information

Parameters
"Username": String

Example
http://127.0.0.1:5000/youcycle/user?Username=john.smith

Response
"username": String
"first_name": String
"last_name": String
"email": String
"zip_code": Integer

Example
```
{
    "email": "johnsmith123@example.com",
    "first_name": "John",
    "last_name": "Smith",
    "username": "john.smith",
    "zip_code": 12345
}
```

POST

Description
Register a user

Parameters
"Username": String
"Password": String
"FirstName": String
"LastName": String
"Email": String
"ZipCode": Integer

Example
http://127.0.0.1:5000/youcycle/user?Username=john.smith&Password=pswrd&FirstName=John&LastName=Smith&Email=johnsmith123@example.com&ZipCode=12345

Response
"success": Boolean

Example
```
{
  "success": true
}
```

DELETE

Description
Delete a user's account and data

Parameters
"Username": String
"Password": String

Example
http://127.0.0.1:5000/youcycle/user?Username=john.smith&Password=pswrd

Response
"success": Boolean

Example
```
{
  "success": true
}
```

http://127.0.0.1:5000/youcycle/user/login

GET

Description
Determine whether a username and password match

Parameters
"Username": String
"Password": String

Example
http://127.0.0.1:5000/youcycle/user/login?Username=john.smith&Password=pswrd

Response
"login": Boolean

Example
```
{
    "login": true
}
```

http://127.0.0.1:5000/youcycle**/user/instructions**

GET

Description
Get a user's local recycling instructions

Parameters
"Username": String

Example
http://127.0.0.1:5000/youcycle/user/instructions?Username=john.smith

Response
"zip_code": Integer
"source": String
"instructions": String

Example
```
{
  "instructions": "What Goes in the Recycling?\n\nPaper Products\n\t-
corrugated cardboard & paper boxes - large or multiple pieces should be
flattened and/or cut\n\t- shredded paper - in a paper bag, secured with a
staple\n\t- junk mail\n\t- newspaper\n\t- phonebooks & catalogs\n\t-
dairy cartons\n\t- aseptic boxes - juice, soup & soy milk\n\t- books up
to 40 lbs.\n\nGlass Bottles & Jars\n\nAluminum & Metal\n\t- aerosol cans
(empty)\n\t- cans & pans\n\t- scrap pieces up to 20 lbs.\n\nPlastics
Labeled 1-7\n\t- bottles & jars\n\t- tubs & trays\n\t- plastic bags - -
Protect the environment by avoiding single-use bags. Reuse them when
possible. When recycling multiple bags, stuff one bag full of the others;
tie off the full bag before placing in the recycling.\n\nNO GARBAGE OR
ORGANICS\nNO FOOD-SOILED PAPER OR PIZZA BOXES\nNO STYROFOAM\n\nHAZARDOUS
WASTE HAS ITS PLACE.\nHazardous waste does NOT belong in any of the
Mission Trail Waste Systems collection bins. Please call the Santa Clara
County Household Hazardous Waste line at 408-299-7300 for information on
proper disposal of items like paint, car batteries, fluorescent bulbs,
toxic cleaners, poisons and sharps.",
  "source": "https://www.santaclaraca.gov/home/showdocument?id=10107",
  "zip_code": 95112
}
```

http://127.0.0.1:5000/youcycle/**recycle**

GET

Description
Get a list of a user's recycled items

Parameters
"Username": String

Example
http://127.0.0.1:5000/youcycle/recycle?Username=john.smith

Response
"items": [array of Item JSON's]

Item JSON
"id": Integer
"product_name": String
"category": String
"recycle_number": Integer or Null
"time_stamp": String

Example
```
{
  "items": [
    {
      "category": "Commingled Materials",
      "id": 5,
      "product_name": "Plastic Bottle",
      "recycle_number": 12345,
      "timestamp": "2020-07-15 03:03:53"
    },
    {
      "category": "Mixed Paper",
      "id": 1,
      "product_name": "Paper Bag",
      "recycle_number": null,
      "timestamp": "2020-07-15 03:03:53"
    }
  ]
}
```

POST

Description
Add a recycled item

Parameters
"Username": String
"ProductName": String
"Category": 'M', 'C', 'S', or 'E'
"RecycleNumber": Integer or Null

Example
http://127.0.0.1:5000/youcycle/recycle?Username=john.smith&ProductName=Plastic%20Bottle&Category=C&RecycleNumber=4

Response
"success": Boolean

Example
```
{
    "success": true
}
```

DELETE

Description
Delete a recycled item

Parameters
"ID": Integer

Example
http://127.0.0.1:5000/youcycle/recycle?ID=27

Response
"success": Boolean

Example
```
{
    "success": true
}
```

GET

Description
Get a user's environmental impact

Parameters
"Username": String

Example
http://127.0.0.1:5000/youcycle/impact?Username=john.smith

Response
"trees_saved": Number
"oil_gallons_saved": Number
"electricity_hours_saved": Number
"water_gallons_saved": Number

Example
```
{
    "electricity_hours_saved": 38.55,
    "oil_gallons_saved": 5.99,
    "trees_saved": 0.02,
    "water_gallons_saved": 5.2
}
```

GET

Description
Get local recycling instructions

Parameters
"ZipCode": Integer

    Example
    http://127.0.0.1:5000/youcycle/instructions?ZipCode=95112

Response
"zip_code": Integer
"source": String
"instructions": String

    Example
    {
      "instructions": "What Goes in the Recycling?\n\nPaper Products\n\t- corrugated cardboard & paper boxes - large or multiple pieces should be flattened and/or cut\n\t- shredded paper - in a paper bag, secured with a staple\n\t- junk mail\n\t- newspaper\n\t- phonebooks & catalogs\n\t- dairy cartons\n\t- aseptic boxes - juice, soup & soy milk\n\t- books up to 40 lbs.\n\nGlass Bottles & Jars\n\nAluminum & Metal\n\t- aerosol cans (empty)\n\t- cans & pans\n\t- scrap pieces up to 20 lbs.\n\nPlastics Labeled 1-7\n\t- bottles & jars\n\t- tubs & trays\n\t- plastic bags - - Protect the environment by avoiding single-use bags. Reuse them when possible. When recycling multiple bags, stuff one bag full of the others; tie off the full bag before placing in the recycling.\n\nNO GARBAGE OR ORGANICS\nNO FOOD-SOILED PAPER OR PIZZA BOXES\nNO STYROFOAM\n\nHAZARDOUS WASTE HAS ITS PLACE.\nHazardous waste does NOT belong in any of the Mission Trail Waste Systems collection bins. Please call the Santa Clara County Household Hazardous Waste line at 408-299-7300 for information on proper disposal of items like paint, car batteries, fluorescent bulbs, toxic cleaners, poisons and sharps.",
      "source": "https://www.santaclaraca.gov/home/showdocument?id=10107",
      "zip_code": 95112
    }