API LAB ASSIGNMENT DONE BY RUBEL SALAM

1. It showed 401 unauthorized

2. 12 lists

3.A/ I can see 2 lists

   B/

```
    "email":
    "first_name":
    "last_name":
    "avatar":
  "url":
    "Text":
```

4.A/ it showed 204 no content

  B/ same as before 7

  C/ no deleted user record

5.A/ null

  B/ no available property in the response body.

6. sent request as URI:

https://reqres.in/api/users?id=13&email=jamal@gmail.com,

     a) responded as "201 Created"

     b) we have 4 `property(Key) names`

```
{
    "name": "yourname",
    "job": "dreamjob",
    "id": "810",
    "createdAt": "2022-04-26T03:18:31.774Z"
}
```

   C/value of response is W/"33-pT3E6QAp4V7RAxHBwgv0DWkYMng"

7. Response code - 400 bad request

```
{
    "error": "Missing password"
}
```

8. 8) sent request as "https://reqres.in/api/login" and

   a) Etag: W/"1d-lGCrvD6B7Qzk11+2C98+nGhhuec"

   b) Responded as

{"email":"eve.holt@reqres.in",

```
 "Password":"cityslicka"} responded with "200 OK" and message in the body
{
    "token": "QpwL5tke4Pnpja7X4"
}
```

9.21 lists i can see

10.GET https://swapi.dev/api/planets/3/ and responded as "Status: 200 OK" with
2 list
And 14 property in the body
```
{ "name":
    "rotation_period":
    "orbital_period":
    "diameter":
    "climate":
    "gravity":
    "terrain":
    "surface_water":
    "population":
    "residents":
    "films":
    "created":
    "edited":
    "url":
```

11.GET https://swapi.dev/api/starships "Status: 200 OK" and 21 list on the
current page.

12. 2 lists i can see

13. GET https://swapi.dev/api/films {
```
    31 lists
String: 5
Objects : 1
Number(s): 2
Null : 2
Array/list : 31
```

14. 21 lists i can see

15.

16. Get details about booking id 23–

RESPONDED with not found

17.RESPONDED with not found

18. Get information about all planets using

URI:https://jsonplaceholder.typicode.com/users

A.RESPONSE IS

```
[
    {
    "id": 1,
    "name": "Leanne Graham",
    "username": "Bret",
    "email": "Sincere@april.biz",
    "address": {
        "street": "Kulas Light",
        "suite": "Apt. 556",
        "city": "Gwenborough",
        "zipcode": "92998-3874",
        "geo": {
        "lat": "-37.3159",
        "lng": "81.1496"
        }
    },
    "phone": "1-770-736-8031 x56442",
    "website": "hildegard.org",
    "company": {
        "name": "Romaguera-Crona",
        "catchPhrase": "Multi-layered client-server neural-net",
        "bs": "harness real-time e-markets"
    }
    },
    {
    "id": 2,
    "name": "Ervin Howell",
    "username": "Antonette",
    "email": "Shanna@melissa.tv",
    "address": {
        "street": "Victor Plains",
```

```
        "suite": "Suite 879",
        "city": "Wisokyburgh",
        "zipcode": "90566-7771",
        "geo": {
        "lat": "-43.9509",
        "lng": "-34.4618"
        }
},
"phone": "010-692-6593 x09125",
"website": "anastasia.net",
"company": {
        "name": "Deckow-Crist",
        "catchPhrase": "Proactive didactic contingency",
        "bs": "synergize scalable supply-chains"
}
},
{
"id": 3,
"name": "Clementine Bauch",
"username": "Samantha",
"email": "Nathan@yesenia.net",
"address": {
        "street": "Douglas Extension",
        "suite": "Suite 847",
        "city": "McKenziehaven",
        "zipcode": "59590-4157",
        "geo": {
        "lat": "-68.6102",
        "lng": "-47.0653"
        }
},
"phone": "1-463-123-4447",
"website": "ramiro.info",
"company": {
        "name": "Romaguera-Jacobson",
        "catchPhrase": "Face to face bifurcated interface",
        "bs": "e-enable strategic applications"
}
},
{
"id": 4,
"name": "Patricia Lebsack",
```

```
"username": "Karianne",
"email": "Julianne.OConner@kory.org",
"address": {
        "street": "Hoeger Mall",
        "suite": "Apt. 692",
        "city": "South Elvis",
        "zipcode": "53919-4257",
        "geo": {
        "lat": "29.4572",
        "lng": "-164.2990"
        }
},
"phone": "493-170-9623 x156",
"website": "kale.biz",
"company": {
        "name": "Robel-Corkery",
        "catchPhrase": "Multi-tiered zero tolerance productivity",
        "bs": "transition cutting-edge web services"
}
},
{
"id": 5,
"name": "Chelsey Dietrich",
"username": "Kamren",
"email": "Lucio_Hettinger@annie.ca",
"address": {
        "street": "Skiles Walks",
        "suite": "Suite 351",
        "city": "Roscoeview",
        "zipcode": "33263",
        "geo": {
        "lat": "-31.8129",
        "lng": "62.5342"
        }
},
"phone": "(254)954-1289",
"website": "demarco.info",
"company": {
        "name": "Keebler LLC",
        "catchPhrase": "User-centric fault-tolerant solution",
        "bs": "revolutionize end-to-end systems"
}
```

```json
  },
  {
  "id": 6,
  "name": "Mrs. Dennis Schulist",
  "username": "Leopoldo_Corkery",
  "email": "Karley_Dach@jasper.info",
  "address": {
        "street": "Norberto Crossing",
        "suite": "Apt. 950",
        "city": "South Christy",
        "zipcode": "23505-1337",
        "geo": {
        "lat": "-71.4197",
        "lng": "71.7478"
        }
  },
  "phone": "1-477-935-8478 x6430",
  "website": "ola.org",
  "company": {
        "name": "Considine-Lockman",
        "catchPhrase": "Synchronised bottom-line interface",
        "bs": "e-enable innovative applications"
  }
  },
  {
  "id": 7,
  "name": "Kurtis Weissnat",
  "username": "Elwyn.Skiles",
  "email": "Telly.Hoeger@billy.biz",
  "address": {
        "street": "Rex Trail",
        "suite": "Suite 280",
        "city": "Howemouth",
        "zipcode": "58804-1099",
        "geo": {
        "lat": "24.8918",
        "lng": "21.8984"
        }
  },
  "phone": "210.067.6132",
  "website": "elvis.io",
  "company": {
```

```json
        "name": "Johns Group",
        "catchPhrase": "Configurable multimedia task-force",
        "bs": "generate enterprise e-tailers"
    }
},
{
"id": 8,
"name": "Nicholas Runolfsdottir V",
"username": "Maxime_Nienow",
"email": "Sherwood@rosamond.me",
"address": {
        "street": "Ellsworth Summit",
        "suite": "Suite 729",
        "city": "Aliyaview",
        "zipcode": "45169",
        "geo": {
        "lat": "-14.3990",
        "lng": "-120.7677"
        }
},
"phone": "586.493.6943 x140",
"website": "jacynthe.com",
"company": {
        "name": "Abernathy Group",
        "catchPhrase": "Implemented secondary concept",
        "bs": "e-enable extensible e-tailers"
}
},
{
"id": 9,
"name": "Glenna Reichert",
"username": "Delphine",
"email": "Chaim_McDermott@dana.io",
"address": {
        "street": "Dayna Park",
        "suite": "Suite 449",
        "city": "Bartholomebury",
        "zipcode": "76495-3109",
        "geo": {
        "lat": "24.6463",
        "lng": "-168.8889"
        }
```

```
        },
        "phone": "(775)976-6794 x41206",
        "website": "conrad.com",
        "company": {
                "name": "Yost and Sons",
                "catchPhrase": "Switchable contextually-based project",
                "bs": "aggregate real-time technologies"
        }
        },
        {
        "id": 10,
        "name": "Clementina DuBuque",
        "username": "Moriah.Stanton",
        "email": "Rey.Padberg@karina.biz",
        "address": {
                "street": "Kattie Turnpike",
                "suite": "Suite 198",
                "city": "Lebsackbury",
                "zipcode": "31428-2261",
                "geo": {
                "lat": "-38.2386",
                "lng": "57.2232"
                }
        },
        "phone": "024-648-3804",
        "website": "ambrose.net",
        "company": {
                "name": "Hoeger LLC",
                "catchPhrase": "Centralized empowering task-force",
                "bs": "target end-to-end models"
        }
        }
]
```

B.one lists in the response body

19.

A. lists in the response body

B.RESPONSE BODY

```
{
    "count": 37,
    "next": "https://swapi.dev/api/species/?page=2",
```

```json
    "previous": null,
    "results": [
        {
            "name": "Human",
            "classification": "mammal",
            "designation": "sentient",
            "average_height": "180",
            "skin_colors": "caucasian, black, asian, hispanic",
            "hair_colors": "blonde, brown, black, red",
            "eye_colors": "brown, blue, green, hazel, grey, amber",
            "average_lifespan": "120",
            "homeworld": "https://swapi.dev/api/planets/9/",
            "language": "Galactic Basic",
            "people": [
                "https://swapi.dev/api/people/66/",
                "https://swapi.dev/api/people/67/",
                "https://swapi.dev/api/people/68/",
                "https://swapi.dev/api/people/74/"
            ],
            "films": [
                "https://swapi.dev/api/films/1/",
                "https://swapi.dev/api/films/2/",
                "https://swapi.dev/api/films/3/",
                "https://swapi.dev/api/films/4/",
                "https://swapi.dev/api/films/5/",
                "https://swapi.dev/api/films/6/"
            ],
            "created": "2014-12-10T13:52:11.567000Z",
            "edited": "2014-12-20T21:36:42.136000Z",
            "url": "https://swapi.dev/api/species/1/"
        },
        {
            "name": "Droid",
            "classification": "artificial",
            "designation": "sentient",
            "average_height": "n/a",
            "skin_colors": "n/a",
            "hair_colors": "n/a",
            "eye_colors": "n/a",
            "average_lifespan": "indefinite",
            "homeworld": null,
            "language": "n/a",
```

```json
        "people": [
            "https://swapi.dev/api/people/2/",
            "https://swapi.dev/api/people/3/",
            "https://swapi.dev/api/people/8/",
            "https://swapi.dev/api/people/23/"
        ],
        "films": [
            "https://swapi.dev/api/films/1/",
            "https://swapi.dev/api/films/2/",
            "https://swapi.dev/api/films/3/",
            "https://swapi.dev/api/films/4/",
            "https://swapi.dev/api/films/5/",
            "https://swapi.dev/api/films/6/"
        ],
        "created": "2014-12-10T15:16:16.259000Z",
        "edited": "2014-12-20T21:36:42.139000Z",
        "url": "https://swapi.dev/api/species/2/"
    },
    {
        "name": "Wookie",
        "classification": "mammal",
        "designation": "sentient",
        "average_height": "210",
        "skin_colors": "gray",
        "hair_colors": "black, brown",
        "eye_colors": "blue, green, yellow, brown, golden, red",
        "average_lifespan": "400",
        "homeworld": "https://swapi.dev/api/planets/14/",
        "language": "Shyriiwook",
        "people": [
            "https://swapi.dev/api/people/13/",
            "https://swapi.dev/api/people/80/"
        ],
        "films": [
            "https://swapi.dev/api/films/1/",
            "https://swapi.dev/api/films/2/",
            "https://swapi.dev/api/films/3/",
            "https://swapi.dev/api/films/6/"
        ],
        "created": "2014-12-10T16:44:31.486000Z",
        "edited": "2014-12-20T21:36:42.142000Z",
        "url": "https://swapi.dev/api/species/3/"
```

```json
        },
        {
            "name": "Rodian",
            "classification": "sentient",
            "designation": "reptilian",
            "average_height": "170",
            "skin_colors": "green, blue",
            "hair_colors": "n/a",
            "eye_colors": "black",
            "average_lifespan": "unknown",
            "homeworld": "https://swapi.dev/api/planets/23/",
            "language": "Galatic Basic",
            "people": [
                "https://swapi.dev/api/people/15/"
            ],
            "films": [
                "https://swapi.dev/api/films/1/"
            ],
            "created": "2014-12-10T17:05:26.471000Z",
            "edited": "2014-12-20T21:36:42.144000Z",
            "url": "https://swapi.dev/api/species/4/"
        },
        {
            "name": "Hutt",
            "classification": "gastropod",
            "designation": "sentient",
            "average_height": "300",
            "skin_colors": "green, brown, tan",
            "hair_colors": "n/a",
            "eye_colors": "yellow, red",
            "average_lifespan": "1000",
            "homeworld": "https://swapi.dev/api/planets/24/",
            "language": "Huttese",
            "people": [
                "https://swapi.dev/api/people/16/"
            ],
            "films": [
                "https://swapi.dev/api/films/1/",
                "https://swapi.dev/api/films/3/"
            ],
            "created": "2014-12-10T17:12:50.410000Z",
            "edited": "2014-12-20T21:36:42.146000Z",
```

            "url": "https://swapi.dev/api/species/5/"
        },
        {
            "name": "Yoda's species",
            "classification": "mammal",
            "designation": "sentient",
            "average_height": "66",
            "skin_colors": "green, yellow",
            "hair_colors": "brown, white",
            "eye_colors": "brown, green, yellow",
            "average_lifespan": "900",
            "homeworld": "https://swapi.dev/api/planets/28/",
            "language": "Galactic basic",
            "people": [
                "https://swapi.dev/api/people/20/"
            ],
            "films": [
                "https://swapi.dev/api/films/2/",
                "https://swapi.dev/api/films/3/",
                "https://swapi.dev/api/films/4/",
                "https://swapi.dev/api/films/5/",
                "https://swapi.dev/api/films/6/"
            ],
            "created": "2014-12-15T12:27:22.877000Z",
            "edited": "2014-12-20T21:36:42.148000Z",
            "url": "https://swapi.dev/api/species/6/"
        },
        {
            "name": "Trandoshan",
            "classification": "reptile",
            "designation": "sentient",
            "average_height": "200",
            "skin_colors": "brown, green",
            "hair_colors": "none",
            "eye_colors": "yellow, orange",
            "average_lifespan": "unknown",
            "homeworld": "https://swapi.dev/api/planets/29/",
            "language": "Dosh",
            "people": [
                "https://swapi.dev/api/people/24/"
            ],
            "films": [

```json
                    "https://swapi.dev/api/films/2/"
                ],
                "created": "2014-12-15T13:07:47.704000Z",
                "edited": "2014-12-20T21:36:42.151000Z",
                "url": "https://swapi.dev/api/species/7/"
            },
            {
                "name": "Mon Calamari",
                "classification": "amphibian",
                "designation": "sentient",
                "average_height": "160",
                "skin_colors": "red, blue, brown, magenta",
                "hair_colors": "none",
                "eye_colors": "yellow",
                "average_lifespan": "unknown",
                "homeworld": "https://swapi.dev/api/planets/31/",
                "language": "Mon Calamarian",
                "people": [
                    "https://swapi.dev/api/people/27/"
                ],
                "films": [
                    "https://swapi.dev/api/films/3/"
                ],
                "created": "2014-12-18T11:09:52.263000Z",
                "edited": "2014-12-20T21:36:42.153000Z",
                "url": "https://swapi.dev/api/species/8/"
            },
            {
                "name": "Ewok",
                "classification": "mammal",
                "designation": "sentient",
                "average_height": "100",
                "skin_colors": "brown",
                "hair_colors": "white, brown, black",
                "eye_colors": "orange, brown",
                "average_lifespan": "unknown",
                "homeworld": "https://swapi.dev/api/planets/7/",
                "language": "Ewokese",
                "people": [
                    "https://swapi.dev/api/people/30/"
                ],
                "films": [
```

```json
            "https://swapi.dev/api/films/3/"
        ],
        "created": "2014-12-18T11:22:00.285000Z",
        "edited": "2014-12-20T21:36:42.155000Z",
        "url": "https://swapi.dev/api/species/9/"
    },
    {

        "name": "Sullustan",
        "classification": "mammal",
        "designation": "sentient",
        "average_height": "180",
        "skin_colors": "pale",
        "hair_colors": "none",
        "eye_colors": "black",
        "average_lifespan": "unknown",
        "homeworld": "https://swapi.dev/api/planets/33/",
        "language": "Sullutese",
        "people": [
            "https://swapi.dev/api/people/31/"
        ],
        "films": [
            "https://swapi.dev/api/films/3/"
        ],
        "created": "2014-12-18T11:26:20.103000Z",
        "edited": "2014-12-20T21:36:42.157000Z",
        "url": "https://swapi.dev/api/species/10/"

    }
  ]
}
```

20. 20)

By Using https://jsonpathfinder.com/

```json
        {
   "studio": {
      "movie": [
         {
            "category": "history",
            "director": "John",
            "title": "History",
            "rating": 6.60
         },
```

```json
        {
            "category": "comedy",
            "director": "Paul",
            "title": "Laugh",
            "rating": 4.00
        },
        {
            "category": "fiction",
            "director": "Jack",
            "title": "Wake",
            "isbn": "87877676879",
            "rating": 8.01
        },
        {
            "category": "drama",
            "director": "Edward",
            "title": "Wuthering Heights",
            "isbn": "8754543578",
            "rating": 4.50
        }
    ],
    "music": {
        "song": "pale",
        "rate": 5.4
    }
},
"ranking": 20
}
```

a. To retrieve all direct properties of the studio object : 3 "movie", "music" and "ranking"

b. To find out the music's song: go to "studio", then click on "music", then we will find the "song" which has value "pale"

C. To find the rating of all items in the studio:

Index 0) x.studio.movie[0].rating

X.studio.movie[1].rating

X.studio.movie[2].rating

x.studio.movie[3].rating

d. To retrieve information on all movies
X.studio.movie[0]
X.studio.movie[1]

```
X.studio.movie[2]
x.studio.movie[3]
```

```
e. To find out the titles of all movies
X.studio.movie[0].title
X.studio.movie[1].title
X.studio.movie[2].title
x.studio.movie[3].title
```

```
f. To retrieve the titles of all movies by Jack
x.studio.movie[2].director
```

```
g. To retrieve the category of the last movie (title:Wuthering Heights)
x.studio.movie[3]
```

```
i. To retrieve all movies that have the isbn property
X.studio.movie[2].isbn (for title: wake)
X.studio.movie[3].isbn ( for title: Wuthering Heights)
```

A.

21.) http://dummy.restapiexample.com/api/v1/employees/

A.one list

B.Response Status Code "200 OK"

C.Availivale property : 5

D.Data types

1. string
2. number
3. object
4. Array

22.http://dummy.restapiexample.com/api/v1/employee/3

A.DATA - 5

B. status code: 200 ok

23.URI: http://dummy.restapiexample.com/api/v1/create

    {

    "name":"rubel salam",

    "salary":"123",

    "age":"23"

    }

A.Response status: "200 OK"

B.Yes, I can see the "id" property in the response. "id" value is 5680

24.http://dummy.restapiexample.com/api/v1/delete/2

```
A.{
    "status": "success",
    "data": "2",
    "message": "Successfully! Record has been deleted"
}
B.GET http://dummy.restapiexample.com/api/v1/employees 24 employees
C. data is still there.
```

25. Register a user by using URI: https://reqres.in/api/register Verb: POST Request Body

   A. Response 400 bad request

   B.   "error": "Missing email or username"

      }

26.https://reqres.in/api/unknown/2

A. Response Status Code: "200 OK"

27. **"201 Created" with message in the body "Created"**

28.A.response Status Code: " 200 OK"

 B.Respond was 2 seconds delayed.

29.A. `"detail"`: `"Not found"`

 B.404 NOT FOUND.