

```
c:\grin-eat-tpi2022\server-node-old\src\functions.js
```

```

1  /*
2      /\      /\
3      //\\_//\\_
4      \_     \_ /   /   Nom et Prénom: GRIN Brian
5      / * * \    /^^^] Enseignant : Monsieur Antoine Schmid
6      \|0/_/ [ ] Classe : I.DA-P4B
7      /   \_ [ / Date : 18.05.2022
8      \   \_ / / Nom du projet : GrinEat-Server-Node
9      [ [ / \_/ Version du projet : 0.1
10     _[ [ \ /_/ Cours : TPI
11
12 */
13
14 const axios = require('axios').default;
15
16 async function convertAddressToCoordinate(address) {
17     return new Promise((resolve, reject) => {
18         encoded = encodeURIComponent(address);
19
20         axios.get(`https://api.mapbox.com/geocoding/v5/mapbox.places
21 /${encoded}.json?access_token=${process.env.MAPBOX_TOKEN}` )
22             .then(function (response) {
23                 let addressFound = response.data.features[0].place_name;
24                 let latitudeAdrr = response.data.features[0].geometry.coordinates[1];
25                 let longitudeAdrr = response.data.features[0].geometry.coordinates[0];
26
27                 resolve({ address: addressFound, latitude: latitudeAdrr, longitude:
28 longitudeAdrr });
29             })
30             .catch(function (error) {
31                 console.table(error);
32                 reject("Invalid address");
33             });
34     });
35 }
36
37 function haversineGreatCircleDistance(
38 , latitudeFrom, longitudeFrom, latitudeTo, longitudeTo, earthRadius = 6371) {
39     // convert from degress to radians
40     let latFrom = deg2rad(latitudeFrom);
41     let lonFrom = deg2rad(longitudeFrom);
42     let latTo = deg2rad(latitudeTo);
43     let lonTo = deg2rad(longitudeTo);
44
45     let latDelta = latTo - latFrom;
46     let lonDelta = lonTo - lonFrom;
47
48     let angle = 2 * Math.asin(Math.sqrt(Math.pow(Math.sin(latDelta / 2), 2) +
49 Math.cos(latFrom) * Math.cos(latTo) * Math.pow(Math.sin(lonDelta / 2), 2))));
50
51     return angle * earthRadius;
52 }

```

```
51
52 function deg2rad(degrees) {
53     var pi = Math.PI;
54     return degrees * pi / 180;
55 }
56
57 module.exports = { convertAdressToCoordoninate, haversineGreatCircleDistance };
```

```
c:\grin-eat-tpi2022\server-node-old\src\index.js
```

```

1 /*
2     /\      /\
3     //\\_//\\_   _____
4     \_       _/    /_____/
5     / * * \    /^^^]
6     \_0/_/ [ ]
7     /    \_ [ ]
8     \    \_ / /
9     [ [ / \/_/
10    _[ [ \ /_/_
11 */
12 */
13
14 const express = require('express');
15 const categories = require('./controllers/categoriesController.js');
16 const restaurants = require('./controllers/restaurantsController.js');
17 const menu_items = require('./controllers/menu_itemsController.js');
18
19 const app = express()
20 const port = process.env.PORT;
21
22 app.use(function (req, res, next) {
23     res.setHeader('Access-Control-Allow-Origin', '*')
24     res.setHeader('Access-Control-Allow-Methods', 'GET, PUT, POST, DELETE')
25     res.setHeader('Access-Control-Allow-Headers', 'Content-Type')
26     res.setHeader('Content-Type', 'application/json')
27     next();
28 });
29 app.use(express.json());
30
31 app.get('/', (req, res) => { res.status(200).json("Welcome to the API") });
32 app.use('/categories', categories);
33 app.use('/restaurants', restaurants);
34 app.use('/menu-items', menu_items);
35
36 app.listen(port, () => {
37     console.log("App listening at http://localhost:" + port)
38 });

```

c:\grin-eat-tpi2022\server-node-old\src\controllers\categoriesController.js

```
1  /*
2      /\      /\
3      /\ \_/\ /\ \
4      \_      _/      /_____/
5      / * * \      /^^^]   Nom et Prénom: GRIN Brian
6      \ \0/_/      [  ]   Enseignant : Monsieur Antoine Schmid
7      /      \_      [  /   Classe : I.DA-P4B
8      \      \_      /      Date : 18.05.2022
9      [ [ / \_/_/      Nom du projet : GrinEat-Server-Node
10     _[ [ \ /_/_/      Version du projet : 0.1
11                        Cours : TPI
12 */
13
14 const express = require('express');
15 const router = express.Router();
16 const Category = require('../models/Category.js');
17
18 router.get('/', (req, res) => {
19     Category.getCategories().then(categories => {
20         res.status(200).json(categories);
21     })
22 });
23
24 module.exports = router;
```

```
c:\grin-eat-tpi2022\server-node-old\src\controllers
\menu_itemsController.js
```

```

1 /*
2     /\      /\
3    //\\_//\\_
4    \   _   /       Nom et Prénom: GRIN Brian
5    / * * \   /^^^] Enseignant : Monsieur Antoine Schmid
6    \_0/_/ [ ] Classe : I.DA-P4B
7    /   \   [   Date : 18.05.2022
8    \       \   /   Nom du projet : GrinEat-Server-Node
9    [ [ / \_/ Version du projet : 0.1
10   _[ [ \ /_/ Cours : TPI
11
12 */
13
14 const express = require('express');
15 const router = express.Router();
16 const MenuItems = require('../models/MenuItems.js');
17
18 router.get('/:id', (req, res) => {
19     let myMenuItems = new MenuItems();
20     let idRestaurant = req.params.id;
21
22     myMenuItems.setRestaurantId(idRestaurant);
23
24     myMenuItems.findById().then(result => {
25         res.status.json(result);
26     });
27 });
28
29 module.exports = router;
```



```
49         if (i == restaurants.length - 1) {
50             resolve(restaurants);
51         }
52     });
53 }
54 }).then(restaurants => {
55     let body = [];
56
57     for (let i = 0; i < restaurants.length; i++) {
58         let latTo = restaurants[i].latitude;
59         let lonTo = restaurants[i].longitude;
60
61         // On vérifie si le restaurant actuel (restaurants[i]) est dans le
rayon demandé
62         if (haversineGreatCircleDistance(latFrom, lonFrom, latTo, lonTo) <
radius) {
63             // On vérifie ensuite si le client souhaite filtrer par des
catégories
64             if (categories.length > 0) {
65                 for (let j = 0; j < categories.length; j++) {
66                     // On vérifie si le restaurant actuel contient une des
catégories par lesquels on souhaite filtrer et si le restaurant
67                     // n'est pas déjà ajouté dans le corps de notre réponse.
68                     if (restaurants[i].categories.includes(categories[j]) &&
!body.includes(restaurants[i])) {
69                         body.push(restaurants[i]);
70                     }
71                 }
72             }
73             else {
74                 body.push(restaurants[i]);
75             }
76         }
77     }
78
79     res.status(200).json(body);
80 });
81 });
82 }).catch(error => {
83     message.push("Adresse invalide");
84     res.status(400).json({
85         result: false,
86         message: message
87     });
88 });
89 } else {
90     message.push("Aucune adresse n'est renseignée");
91     res.status(400).json({
92         result: false,
93         message: message
94     });
95 }
96 });
97
98 module.exports = router;
```

```
c:\grin-eat-tpi2022\server-node-old\src\models\Category.js
```

```

1 /*
2     /\      /\
3    /\ \_/\ /\ 
4   \_ \_/_/ /_/  Nom et Prénom: GRIN Brian
5   / * * \ /^^^] Enseignant : Monsieur Antoine Schmid
6   \_\0/_/[ ] Classe : I.DA-P4B
7   / \_/[ ] Date : 18.05.2022
8   \ \_/_/ Nom du projet : GrinEat-Server-Node
9   [ [ / \_/_/ Version du projet : 0.1
10  _[ [ \ /_/_/ Cours : TPI
11 */
12 */
13
14 const Db = require('./Db.js');
15
16 class Category {
17
18     getIdCategory() {
19         return this.idCategory;
20     }
21
22     setIdCategory(idCategory) {
23         this.idCategory = idCategory;
24     }
25
26     getNameEnglish() {
27         return this.nameEnglish;
28     }
29
30     setNameEnglish(nameEnglish) {
31         this.nameEnglish = nameEnglish;
32     }
33
34     getNameFrench() {
35         return this.nameFrench;
36     }
37
38     setNameFrench(nameFrench) {
39         this.nameFrench = nameFrench;
40     }
41
42     static async getCategories() {
43         let sql = "SELECT * FROM categories;"
44         const [rows, fields] = await Db.query(sql);
45         return rows;
46     }
47 }
48 module.exports = Category;

```

c:\grin-eat-tpi2022\server-node-old\src\models\Db.js

```

1  /*
2      /\      /\
3      /\ \_/\ /\
4      \_  _/  /_  /  Nom et Prénom: GRIN Brian
5      / * * \  /^^^]  Enseignant : Monsieur Antoine Schmid
6      \_ \0/_/  [  ]   Classe : I.DA-P4B
7      /   \_  [   /    Date : 18.05.2022
8      \   \_  /   /    Nom du projet : GrinEat-Server-Node
9      [ [ / \_/_/  Version du projet : 0.1
10     _[ [ \ /_/_/   Cours : TPI
11
12  */
13
14  const mysql = require('mysql2/promise');
15  const dotenv = require('dotenv').config();
16
17  const Db = mysql.createPool({
18      host: process.env.DB_HOST,
19      user: process.env.DB_USER,
20      password: process.env.DB_PASS,
21      database: process.env.DB_NAME
22  });
23
24  module.exports = Db;

```

c:\grin-eat-tpi2022\server-node-old\src\models\MenuItems.js

```

1  /*
2      /\      /\
3      /\ \_/\ /\
4      \_  _/  /_  /  Nom et Prénom: GRIN Brian
5      / * * \  /^^^]  Enseignant : Monsieur Antoine Schmid
6      \_ \0/_/  [  ]   Classe : I.DA-P4B
7      /   \_  [   /    Date : 18.05.2022
8      \   \_  /   /    Nom du projet : GrinEat-Server-Node
9      [ [ / \_/_/  Version du projet : 0.1
10     _[ [ \ /_/_/   Cours : TPI
11
12  */
13
14  class MenuItems {
15
16  }
17  module.exports = MenuItems;

```


c:\grin-eat-tpi2022\server-node-old\src\models\Restaurant.js

```
1  /*
2      /\      /\
3      /\ \_/\ /\
4      \_   _/  /  _/  Nom et Prénom: GRIN Brian
5      / * * \   /^^^]  Enseignant : Monsieur Antoine Schmid
6      \_ \0/_/   [   ]  Classe : I.DA-P4B
7      /   \_   [   /   Date : 18.05.2022
8      \   \_   /   /   Nom du projet : GrinEat-Server-Node
9      [ [ / \_/_/   Version du projet : 0.1
10     _[ [ \ \_/_/   Cours : TPI
11
12  */
13
14  const Db = require('./Db.js');
15
16  class Restaurant {
17
18      getIdRestaurant() {
19          return this.idRestaurant;
20      }
21
22      setIdRestaurant(idRestaurant) {
23          this.idRestaurant = idRestaurant;
24      }
25
26      getCreatedOn() {
27          return this.createdOn;
28      }
29
30      setCreatedOn(createdOn) {
31          this.createdOn = createdOn;
32      }
33
34      getEmail() {
35          return this.email;
36      }
37
38      setEmail(email) {
39          this.email = email;
40      }
41
42      getName() {
43          return this.name;
44      }
45
46      setName(name) {
47          this.name = name;
48      }
49
50      getPhone() {
51          return this.phone;
52      }
53  }
```

```
54     setPhone(phone) {
55         this.phone = phone;
56     }
57
58     getWebsite() {
59         return this.website;
60     }
61
62     setWebsite(website) {
63         this.website = website;
64     }
65
66     getImage() {
67         return this.image;
68     }
69
70     setImage(image) {
71         this.image = image;
72     }
73
74     getStreet() {
75         return this.street;
76     }
77
78     setStreet(street) {
79         this.street = street;
80     }
81
82     getCp() {
83         return this.cp;
84     }
85
86     setCp(cp) {
87         this.cp = cp;
88     }
89
90     getCity() {
91         return this.city;
92     }
93
94     setCity(city) {
95         this.city = city;
96     }
97
98     getCountryId() {
99         return this.countryId;
100     }
101
102     setCountryId(countryId) {
103         this.countryId = countryId;
104     }
105
106     getLatitude() {
107         return this.latitude;
108     }
```

```
109
110   setLatitude(latitude) {
111       this.latitude = latitude;
112   }
113
114   getLongitude() {
115       return this.longitude;
116   }
117
118   setLongitude(longitude) {
119       this.longitude = longitude;
120   }
121
122   static async getRestaurants() {
123       let sql = "SELECT * FROM restaurants;"
124       const [rows, fields] = await Db.query(sql);
125       return rows;
126   }
127
128   async getRestaurantCategoriesFR() {
129       let sql = "SELECT nameFrench FROM categories LEFT JOIN restaurants_categories as rc
ON categories.id = rc.categoryId LEFT JOIN restaurants as r ON rc.restaurantId = r.id WHERE
r.id = ?;"
130       const [rows, fields] = await Db.query(sql, [this.getIdRestaurant()]);
131       return rows;
132   }
133
134   async getRestaurantCountry() {
135       let sql = "SELECT * FROM `countries` WHERE id = ?;"
136       const [rows, fields] = await Db.query(sql, [this.getCountryId()]);
137       return rows;
138   }
139 }
140 module.exports = Restaurant;
```