c:\grin-eat-tpi2022\grineat-api\.htaccess

```
#Turn Rewrite Engine On
RewriteEngine On

#Rewrite URL
RewriteRule ^(.*)/(.*)$ index.php?endpoint=$1&id=$2&context=$3 [QSA,L]
RewriteRule ^(.*)/(.*)$ index.php?endpoint=$1&id=$2 [QSA,L]
RewriteRule ^(.*)$ index.php?endpoint=$1 [QSA,L]
```

c:\grin-eat-tpi2022\grineat-api\functions.inc.php

```
1 <?php
 2 /*
 3
       /\ /\
      //\\_//\\
 4
 5
       Nom et Prénom: GRIN Brian
 6
                          Enseignant: Monsieur Antoine Schmid
       \_\0/_/ [ ]
 7
                          Classe : I.DA-P4B
       / \_ [ /
 8
                          Date: 18.05.2022
 9
                          Nom du projet : GrinEat-API
        [ [ / \/ _/
                         Version du projet : 1.0
10
        [[\ //
11
                          Cours : TPI
12
13 |*/
14
15 function convertAdressToCoordinate($adress)
16 {
17
       $encoded = rawurlencode($adress);
       $result = array();
18
19
       $url = "https://api.mapbox.com/geocoding/v5/mapbox.places/" . $encoded .
20
   ".json?access_token=pk.eyJ1IjoibWl5b2tpIiwiYSI6ImNsMW96ejJ5NTAzMjQza3B0NHB3bHMxYncifQ.03AlBHWNc
21
22
       $curl = curl init($url);
23
       curl_setopt($curl, CURLOPT_URL, $url);
       curl_setopt($curl, CURLOPT_RETURNTRANSFER, true);
24
25
26
       $resp = curl_exec($curl);
27
       curl_close($curl);
28
       $data = json decode($resp, true);
29
30
       if (count($data["features"]) != 0) {
31
           $addressFound = $latitudeAddr = $data["features"][0]["place_name"];
32
           $latitudeAddr = $data["features"][0]["geometry"]["coordinates"][1];
33
           $longitudeAddr = $data["features"][0]["geometry"]["coordinates"][0];
34
35
          $result["street"] = $addressFound;
36
           $result["coordinates"]["latitude"] = $latitudeAddr;
           $result["coordinates"]["longitude"] = $longitudeAddr;
37
       } else {
38
39
           $result = null;
40
       }
41
42
43
      return $result;
44
45
      $result = array();
46
47
       $result["adress"] = "Quai Capo D'istria 9, 1205 Genève, Switzerland";
48
       $result["latitude"] = 46.187687;
49
       $result["longitude"] = 6.143453;
50
       return $result;
51
       */
52 }
```

```
53
54 function haversineGreatCircleDistance(
55 |,
        $latitudeFrom,
56,
        $longitudeFrom,
        $latitudeTo,
57
58,
        $longitudeTo,
59 ,
        $earthRadius = 6371
60,) {
61
       // Convertir de degrés en radian
       $latFrom = deg2rad($latitudeFrom);
62
       $lonFrom = deg2rad($longitudeFrom);
63
64
       $latTo = deg2rad($latitudeTo);
65
       $lonTo = deg2rad($longitudeTo);
66
67
       $latDelta = $latTo - $latFrom;
68
       $lonDelta = $lonTo - $lonFrom;
69
70
       $angle = 2 * asin(sqrt(pow(sin($latDelta / 2), 2) +
71
           cos($latFrom) * cos($latTo) * pow(sin($lonDelta / 2), 2)));
72
       return $angle * $earthRadius;
73 }
74
75 function compareDistance($a, $b) {
76
       $distanceA = $a->getDistanceFrom();
77
       $distanceB = $b->getDistanceFrom();
78
       return ($distanceA < $distanceB) ? -1 : 1;</pre>
79 }
```

c:\grin-eat-tpi2022\grineat-api\index.php

```
1 <?php
 2 /*
 3
        /\ /\
 4
       //\\_//\\
 5
                           Nom et Prénom: GRIN Brian
       _
/ * * \
                  /^^^]
 6
                           Enseignant: Monsieur Antoine Schmid
       \_\0/_/
 7
                           Classe : I.DA-P4B
 8
       / \_ [
                           Date: 18.05.2022
 9
                           Nom du projet : GrinEat-API
        [ [ / \/ _/
10
                         Version du projet : 1.0
        [[\ //
11
                           Cours : TPI
12
13 |*/
14
15 // Include CORS headers
16 header('Access-Control-Allow-Origin: *');
17 header('Access-Control-Allow-Methods: GET, POST, PUT, DELETE');
18 header('Access-Control-Allow-Headers: X-Requested-With');
19 header('Content-Type: application/json');
20
21 // Include Models & functions
22 include "functions.inc.php";
23 include "models/MyPdo.php";
24 include "models/Category.php";
25 include "models/Restaurant.php";
26 include "models/MenuItems.php";
27
28 // create a api variable to get HTTP method dynamically
29 $api = $_SERVER['REQUEST_METHOD'];
30 // get headers
31 | $headers = getallheaders();
32 // get endpoint from url
33 $endpoint = $_GET['endpoint'] ?? '';
34 // get id from url
35 | $id = intval($_GET['id'] ?? '');
36 // get context
37 |$context = $_GET['context'] ?? '';
38
39 switch ($endpoint) {
40
       case '':
41
           echo json_encode("Welcome to the API");
42
           break;
43
       case 'categories':
           include "controllers/categoriesController.php";
44
45
           break;
46
       case 'restaurants':
47
           switch($context) {
48
49
                   include "controllers/restaurantsController.php";
50
                   break;
51
               case 'menus':
52
                   include "controllers/menu_itemsController.php";
53
                   break;
```

```
54
                default:
55
                http_response_code(400);
56
                break;
57
           }
58
           break;
59
       default:
60
           http_response_code(404);
61
           break;
62 }
```

c:\grin-eat-tpi2022\grineat-api\controllers\categoriesController.php

```
1 <?php
 2 /*
 3
       /\ /\
 4
      //\\_//\\
 5
                          Nom et Prénom: GRIN Brian
 6
                 /^^^]
                          Enseignant : Monsieur Antoine Schmid
 7
      \_\0/_/ [ ] Classe : I.DA-P4B
       / \_ [ / Date : 18.05.2022
 8
 9
            \_ / /
                        Nom du projet : GrinEat-API
       [ [ / \/ _/
10
                          Version du projet : 1.0
       _[ [ \ /_/
                          Cours : TPI
11
12
13 |*/
14
15 switch ($api) {
      case 'GET':
16
17
          $message = array();
18
19
          if ($id != 0) {
20
              $myCategory = new Category();
21
22
              $myCategory->setId($id);
23
              $body = $myCategory->findById();
24
25
          } else {
26
              $categories = Category::findAll();
27
28
              $body = $categories;
29
          }
30
          array_push($message, "success");
31
32
          http_response_code(200);
          echo json_encode(["result" => $body, "message" => $message]);
33
34
          break;
35
      default:
36
          http_response_code(405);
37
          break;
38 }
```

c:\grin-eat-tpi2022\grineat-api\controllers\menu_itemsController.php

```
1 <?php
 2 /*
 3
       /\ /\
 4
       //\\_//\\
 5
                           Nom et Prénom: GRIN Brian
                 /^^^]
 6
                           Enseignant : Monsieur Antoine Schmid
       \_\0/_/
 7
                           Classe : I.DA-P4B
 8
       / \_ [
                           Date: 18.05.2022
 9
                           Nom du projet : GrinEat-API
        [ [ / \/ _/
10
                           Version du projet : 1.0
        [[\ //
11
                           Cours : TPI
12
13 |*/
14
15 switch ($api) {
       case 'GET':
16
17
           $message = array();
18
19
           if ($id != 0) {
20
               // Récupérer les informations du restaurant à l'ID donné
21
               $myRestaurant = new Restaurant();
22
               $myRestaurant->setId($id);
23
               $restaurant = $myRestaurant->findById();
24
25
               foreach ($restaurant->findCategoriesById() as $c) {
26
                   // On cherche les catégories du restaurant et les ajoutes à la propriété
   categories de l'objet Restaurant
27
                   $restaurant->addCategory($c->getNameFrench());
28
               }
29
30
               // Récupérer les menus et éléments relative au restaurant
               $myMenuItems = new MenuItems();
31
               $myMenuItems->setRestaurantId($id);
32
33
               $menuItems = $myMenuItems->findItemsByRestaurantId();
34
35
               array_push($message, "success");
36
               http_response_code(200);
               echo json_encode(["result" => ["info" => $restaurant, "menu_items" =>
37
   $menuItems], "message" => $message]);
38
           }
39
           break;
40
       default:
41
           http_response_code(405);
42
           break;
43 }
```

c:\grin-eat-tpi2022\grineat-api\controllers\restaurantsController.php

```
1 <?php
 2 /*
 3
        /\ /\
 4
       //\\_//\\
 5
                           Nom et Prénom: GRIN Brian
                  /^^^1
 6
                           Enseignant: Monsieur Antoine Schmid
 7
       \_\0/_/
                           Classe: I.DA-P4B
 8
                  Γ
                           Date: 18.05.2022
 9
                           Nom du projet : GrinEat-API
         [ [ / \/ _/
10
                           Version du projet : 1.0
        [[\ //
11
                           Cours : TPI
12
13 |*/
14
15 switch ($api) {
       case 'POST':
16
17
           $jsonString = file_get_contents("php://input");
           $data = json_decode($jsonString, true) ?? array();
18
19
           $message = array();
20
           $body = array();
21
22
           if ($data != null) {
23
               $address = $data["address"] ?? null; // adresse du client.
24
               $coordinates = $data["coordinates"] ?? array();
               $radius = intval($data["radius"]) != null ? intval($data["radius"]) : 5; // rayon
25
   limite autour de l'adresse du client par défaut 5 si rien spécifié.
               $name = $data["name"] ?? null; // filtre par nom si le client souhaite faire une
26
   recherche
               $categories = $data["categories"] ?? array(); // filtre par catégorie si le
27
   client en sélectionne
28
29
               if (isset($coordinates["latitude"]) && isset($coordinates["longitude"]) &&
   !isset($info)) {
30
                   $info["coordinates"] = $coordinates;
31
32
                   if ($address != null) {
33
                       $info["street"] = $address;
34
                   }
               }
35
36
37
               if ($address != null && !isset($info)) {
38
                   $info = convertAdressToCoordinate($address);
39
               }
40
41
               if ($info != null) {
                   $latFrom = $info["coordinates"]["latitude"]; // latitude de l'adresse du
42
   client
                   $lonFrom = $info["coordinates"]["longitude"]; // longitude de l'adresse du
43
   client
44
45
                   $restaurants = Restaurant::findAll();
46
47
                   foreach ($restaurants as $r) {
```

```
48
                       // On cherche les catégories de chaque restaurant et les ajoutes à la
   propriété categories de l'objet Restaurant
                       foreach ($r->findCategoriesById() as $c) {
49
                            $r->addCategory($c->getId());
50
51
                       }
52
53
                       $latTo = $r->getLatitude(); // latitude du restaurant actuel
54
                       $lonTo = $r->getLongitude(); // longitude du restaurant actuel
55
56
                       // On vérifie si le restaurant actuel est dans le rayon demandé
                       $r->setDistanceFrom(haversineGreatCircleDistance($latFrom, $lonFrom,
57
   $latTo, $lonTo));
58
                       if ($r->getDistanceFrom() < $radius) {</pre>
59
                            // On vérifie ensuite si le client souhaite filtrer par des
   catégories
60
                            if (count($categories) > 0) {
                                // On vérifie si le restaurant actuel contient au moins une des
61
   catégories demandés par le client
                                if (count(array_intersect($r->getCategories(), $categories)) < 1)</pre>
62
63
                                    continue; // On passe au restaurant suivant
                                }
64
65
                           }
66
67
                            // On vérifie si le client souhaite filtrer par un nom
68
                            if ($name != null) {
69
                                // On vérifie si le restaurant actuel commence par la saisie du
   client
70
                                if (strpos(strtolower($r->getName()), strtolower($name)) !== 0) {
71
                                    continue; // On passe au restaurant suivant
72
                                }
73
                            }
74
75
                            array push($body, $r);
76
                       }
77
                   }
78
                   // Trier les restaurants par distance croissanteQu
79
                   usort($body, "compareDistance");
80
81
                   array_push($message, "success");
                   http_response_code(200);
82
83
                   echo json encode(["result" => ["address" => $info, "restaurants" => $body],
   "message" => $message]);
84
               } else {
85
                   array_push($message, "Adresse invalide");
86
                   http response code(400);
87
                   echo json_encode(["result" => false, "message" => $message]);
88
89
           } else {
               array_push($message, "Il faut au minimum une adresse ou des coordonnées latitude,
90
   longitude");
91
               http response code(400);
92
               echo json_encode(["result" => false, "message" => $message]);
93
94
           break;
95
       default:
```

9 sur 22

c:\grin-eat-tpi2022\grineat-api\models\Category.php

```
1 <?php
2 /*
3
       /\ /\
      //\\_//\\
 5
                           Nom et Prénom: GRIN Brian
                  /^^^1
                           Enseignant : Monsieur Antoine Schmid
                 [
7
       \_\0/_/
                           Classe : I.DA-P4B
8
       / \_ [
                           Date: 18.05.2022
9
                           Nom du projet : GrinEat-API
        [ [ / \/ _/
10
                           Version du projet : 1.0
        _[ [ \ /_/
                           Cours : TPI
11
12
13 |*/
14
15 class Category implements JsonSerializable {
16
      private $id;
17
      private $nameEnglish;
18
      private $nameFrench;
19
20
       /**
21
       * Get the value of id
22
23
      public function getId()
24
      {
25
           return $this->id;
26
      }
27
       /**
28
29
        * Set the value of id
30
31
        * @return self
32
33
      public function setId($id)
34
35
           $this->id = $id;
36
37
           return $this;
38
      }
39
40
41
       * Get the value of nameEnglish
42
43
      public function getNameEnglish()
44
45
           return $this->nameEnglish;
46
      }
47
48
49
       * Set the value of nameEnglish
50
51
        * @return self
52
53
      public function setNameEnglish($nameEnglish)
```

```
54
        {
 55
            $this->nameEnglish = $nameEnglish;
 56
 57
            return $this;
 58
        }
 59
        /**
 60
         * Get the value of nameFrench
 61
 62
 63
        public function getNameFrench()
 64
        {
 65
            return $this->nameFrench;
 66
        }
 67
        /**
 68
 69
         * Set the value of nameFrench
 70
 71
         * @return self
 72
 73
        public function setNameFrench($nameFrench)
 74
 75
            $this->nameFrench = $nameFrench;
 76
 77
            return $this;
 78
        }
 79
 80
        public function jsonSerialize()
 81
 82
            return get_object_vars($this);
 83
        }
 84
 85
        public static function findAll() {
            $sql = MyPdo::getInstance()->prepare('SELECT * FROM categories');
 86
 87
            $sql->setFetchMode(PD0::FETCH_CLASS | PD0::FETCH_PROPS_LATE, 'Category');
 88
            $sql->execute();
 89
            $result = $sql->fetchAll();
 90
 91
            return $result;
 92
        }
 93
 94
        public function findById() {
 95
            $sql = MyPdo::getInstance()->prepare('SELECT * FROM categories WHERE id = :id');
 96
            $sql->setFetchMode(PD0::FETCH_CLASS | PD0::FETCH_PROPS_LATE, 'Category');
 97
            $sql->bindParam(':id', $this->getId());
 98
            $sql->execute();
 99
            $result = $sql->fetch();
100
101
            return $result;
        }
102
103 }
```

c:\grin-eat-tpi2022\grineat-api\models\MenuItems.php

```
1 <?php
2 /*
3
       /\ /\
      //\\_//\\
5
                           Nom et Prénom: GRIN Brian
                 /^^^1
                           Enseignant : Monsieur Antoine Schmid
                 [
7
       \_\0/_/
                           Classe : I.DA-P4B
8
       / \_ [ /
                           Date: 18.05.2022
9
                           Nom du projet : GrinEat-API
        [ [ / \/ _/
                           Version du projet : 1.0
10
        _[ [ \ /_/
                           Cours : TPI
11
12
13 |*/
14
15 class MenuItems implements JsonSerializable {
      private $id;
16
17
      private $restaurantId;
      private $name;
18
19
      private $description;
20
      private $image;
21
      private $price;
22
      /**
23
24
       * Get the value of id
25
26
      public function getId()
27
           return $this->id;
28
29
      }
30
       /**
31
32
       * Set the value of id
33
34
        * @return self
35
36
      public function setId($id)
37
      {
38
           $this->id = $id;
39
40
           return $this;
      }
41
42
43
44
       * Get the value of restaurantId
45
46
      public function getRestaurantId()
47
48
           return $this->restaurantId;
49
      }
50
51
52
        * Set the value of restaurantId
53
```

```
54
         * @return self
 55
         */
        public function setRestaurantId($restaurantId)
 56
 57
 58
            $this->restaurantId = $restaurantId;
 59
 60
            return $this;
 61
        }
 62
        /**
 63
         * Get the value of name
 64
 65
 66
        public function getName()
 67
 68
            return $this->name;
 69
        }
 70
        /**
 71
 72
         * Set the value of name
 73
 74
         * @return self
 75
 76
        public function setName($name)
 77
        {
 78
            $this->name = $name;
 79
 80
            return $this;
 81
        }
 82
        /**
 83
         * Get the value of description
 84
 85
 86
        public function getDescription()
 87
 88
            return $this->description;
 89
        }
 90
        /**
 91
 92
         * Set the value of description
 93
 94
         * @return self
 95
 96
        public function setDescription($description)
 97
 98
            $this->description = $description;
 99
100
            return $this;
        }
101
102
        /**
103
104
         * Get the value of image
105
106
        public function getImage()
107
108
            return $this->image;
```

```
109
        }
110
        /**
111
112
         * Set the value of image
113
114
         * @return self
         */
115
        public function setImage($image)
116
117
118
            $this->image = $image;
119
120
            return $this;
121
        }
122
123
        /**
124
         * Get the value of price
125
        public function getPrice()
126
127
        {
128
            return $this->price;
129
        }
130
        /**
131
         * Set the value of price
132
133
134
         * @return self
135
136
        public function setPrice($price)
137
        {
138
            $this->price = $price;
139
140
            return $this;
141
        }
142
        public function jsonSerialize()
143
144
145
            return get_object_vars($this);
146
        }
147
        public function findItemsByRestaurantId() {
148
149
            $sql = MyPdo::getInstance()->prepare('SELECT * FROM menu_items WHERE restaurantId =
    :id');
150
            $sql->setFetchMode(PDO::FETCH_CLASS | PDO::FETCH_PROPS_LATE, 'MenuItems');
151
            $sql->bindParam(':id', $this->getRestaurantId());
152
            $sql->execute();
153
            $result = $sql->fetchAll();
154
155
            return $result;
156
        }
157 }
```

c:\grin-eat-tpi2022\grineat-api\models\MyPdo.php

```
1 <?php
 2 /*
 3
        /\ /\
 4
       //\\_//\\
 5
                           Nom et Prénom: GRIN Brian
       / * * \
                  /^^^1
 6
                           Enseignant: Monsieur Antoine Schmid
 7
       \_\0/_/
                           Classe : I.DA-P4B
 8
                  [
                           Date: 18.05.2022
              \_ / /
 9
                           Nom du projet : GrinEat-API
        [ [ / \/ _/
10
                           Version du projet : 1.0
        [[\ //
11
                           Cours : TPI
12
13 |*/
14
15 class MyPdo
16 {
17 private static $dbhost = 'localhost';
18 private static $dbname = 'db_grineat';
19 private static $dbuser = 'admin_grineat';
20 private static $dbpasswd = 'ND)BO/4S/dr[_6H6';
21
22 private static $MyPdo;
23 private static $unPdo = null;
24
25 // Constructeur privé, crée l'instance de PDO qui sera sollicitée
26 // pour toutes les méthodes de la classe
27 private function __construct()
28 {
29
      MyPdo::$unPdo = new PDO("mysql:host=".MyPdo::$dbhost.';dbname='.MyPdo::$dbname,
  MyPdo::$dbuser, MyPdo::$dbpasswd);
30
      MyPdo::$unPdo->query("SET CHARACTER SET utf8");
      MyPdo::$unPdo->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
31
32 |}
33 public function __destruct()
34 |{
35
      MyPdo::$unPdo = null;
36 }
37 /**
38 |*
       Fonction statique qui cree l'unique instance de la classe
39 | *
       Appel : $instanceMyPdo = MyPdo::getMyPdo();
40 |*
       @return l'unique objet de la classe MyPdo
41 */
42 public static function getInstance()
43 |{
44
       if(self::$unPdo == null)
45
46
           self::$MyPdo= new MyPdo();
47
48
       return self::$unPdo;
49 }
50
51 }
```

c:\grin-eat-tpi2022\grineat-api\models\Restaurant.php

```
1 <?php
2 /*
3
       /\ /\
      //\\_//\\
 5
                           Nom et Prénom: GRIN Brian
                  /^^^1
                           Enseignant : Monsieur Antoine Schmid
                 [
7
       \_\0/_/
                           Classe : I.DA-P4B
8
       / \_ [
                           Date: 18.05.2022
9
                           Nom du projet : GrinEat-API
        [ [ / \/ _/
                           Version du projet : 1.0
10
        _[ [ \ /_/
                           Cours : TPI
11
12
13 |*/
14
15 class Restaurant implements JsonSerializable {
      private $id;
16
17
      private $createdOn;
18
      private $email;
19
      private $name;
20
      private $phone;
21
      private $website;
22
      private $image;
23
      private $street;
24
      private $cp;
25
      private $city;
26
      private $countryId;
27
      private $latitude;
28
      private $longitude;
29
      private $categories = array();
30
      private $distanceFrom;
31
32
      /**
33
       * Get the value of id
34
35
      public function getId()
36
37
           return $this->id;
38
      }
39
40
41
        * Set the value of id
42
43
        * @return self
44
45
      public function setId($id)
46
      {
47
           $this->id = $id;
48
49
           return $this;
50
      }
51
52
53
       * Get the value of createdOn
```

```
54
 55
        public function getCreatedOn()
 56
 57
            return $this->createdOn;
 58
        }
 59
        /**
 60
         * Set the value of createdOn
 61
 62
 63
         * @return self
         */
 64
        public function setCreatedOn($createdOn)
 65
 66
            $this->createdOn = $createdOn;
 67
 68
 69
            return $this;
 70
        }
 71
        /**
 72
 73
         * Get the value of email
 74
 75
        public function getEmail()
 76
 77
            return $this->email;
 78
        }
 79
 80
 81
         * Set the value of email
 82
 83
         * @return self
 84
 85
        public function setEmail($email)
 86
 87
            $this->email = $email;
 88
 89
            return $this;
 90
        }
 91
        /**
 92
 93
         * Get the value of name
 94
 95
        public function getName()
 96
        {
 97
            return $this->name;
 98
        }
 99
        /**
100
101
         * Set the value of name
102
         * @return self
103
104
105
        public function setName($name)
106
        {
107
            $this->name = $name;
108
```

```
109
            return $this;
110
        }
111
        /**
112
        * Get the value of phone
113
114
         */
115
        public function getPhone()
116
117
            return $this->phone;
118
        }
119
        /**
120
121
         * Set the value of phone
122
123
         * @return self
124
         */
125
        public function setPhone($phone)
126
127
            $this->phone = $phone;
128
129
            return $this;
130
        }
131
132
        /**
133
         * Get the value of website
134
135
        public function getWebsite()
136
137
            return $this->website;
138
        }
139
        /**
140
141
         * Set the value of website
142
         * @return self
143
         */
144
145
        public function setWebsite($website)
146
        {
147
            $this->website = $website;
148
149
            return $this;
150
        }
151
152
153
        * Get the value of image
154
155
        public function getImage()
156
        {
157
            return $this->image;
158
        }
159
        /**
160
161
         * Set the value of image
162
163
         * @return self
```

```
164
165
        public function setImage($image)
166
167
            $this->image = $image;
168
169
            return $this;
170
        }
171
172
173
        * Get the value of street
174
        public function getStreet()
175
176
177
            return $this->street;
178
        }
179
180
        /**
        * Set the value of street
181
182
183
         * @return self
184
        public function setStreet($street)
185
186
187
            $this->street = $street;
188
189
            return $this;
190
        }
191
        /**
192
193
        * Get the value of cp
194
195
        public function getCp()
196
        {
197
            return $this->cp;
198
        }
199
        /**
200
201
         * Set the value of cp
202
203
         * @return self
         */
204
205
        public function setCp($cp)
206
        {
207
            $this->cp = $cp;
208
            return $this;
209
210
        }
211
        /**
212
        * Get the value of city
213
214
215
        public function getCity()
216
        {
217
            return $this->city;
218
        }
```

```
219
        /**
220
221
         * Set the value of city
222
         * @return self
223
224
         */
225
        public function setCity($city)
226
227
            $this->city = $city;
228
229
            return $this;
230
        }
231
232
233
         * Get the value of countryId
234
235
        public function getCountryId()
236
237
            return $this->countryId;
238
        }
239
240
241
         * Set the value of countryId
242
243
         * @return self
244
         */
        public function setCountryId($countryId)
245
246
247
            $this->countryId = $countryId;
248
249
            return $this;
250
        }
251
        /**
252
        * Get the value of latitude
253
254
255
        public function getLatitude()
256
        {
257
            return $this->latitude;
258
        }
259
        /**
260
261
         * Set the value of latitude
262
263
         * @return self
264
265
        public function setLatitude($latitude)
266
        {
267
            $this->latitude = $latitude;
268
269
            return $this;
270
        }
271
272
        /**
273
         * Get the value of longitude
```

```
274
275
        public function getLongitude()
276
277
            return $this->longitude;
278
        }
279
        /**
280
281
        * Set the value of longitude
282
283
         * @return self
         */
284
        public function setLongitude($longitude)
285
286
            $this->longitude = $longitude;
287
288
289
            return $this;
290
        }
291
        /**
292
293
        * Get the value of categories
294
        */
        public function getCategories()
295
296
297
            return $this->categories;
298
        }
299
300
301
         * Set the value of longitude
302
303
         * @return self
304
305
        public function setCategories($categories)
306
307
            $this->categories = $categories;
308
309
            return $this;
        }
310
311
        /**
312
        * add the value of categories
313
314
315
         * @return self
316
317
        public function addCategory($category)
318
        {
319
            array_push($this->categories, $category);
320
321
            return $this;
322
        }
323
324
325
        * Get the value of distanceFrom
326
327
        public function getDistanceFrom()
328
        {
```

```
329
            return $this->distanceFrom;
330
        }
331
332
333
         * Set the value of distanceFrom
334
335
         * @return self
336
         */
337
        public function setDistanceFrom($distanceFrom)
338
339
            $this->distanceFrom = $distanceFrom;
340
341
            return $this;
342
        }
343
344
        public function jsonSerialize()
345
346
            return get_object_vars($this);
347
        }
348
349
        public static function findAll() {
350
            $sq1 = MyPdo::getInstance()->prepare('SELECT * FROM restaurants;');
351
            $sql->setFetchMode(PD0::FETCH_CLASS | PD0::FETCH_PROPS_LATE, 'Restaurant');
352
            $sql->execute();
353
            $result = $sql->fetchAll();
354
355
            return $result;
        }
356
357
358
        public function findById() {
359
            $sql = MyPdo::getInstance()->prepare('SELECT * FROM restaurants WHERE id = :id;');
360
            $sql->setFetchMode(PD0::FETCH_CLASS | PD0::FETCH_PROPS_LATE, 'Restaurant');
            $sql->bindParam(':id', $this->getId());
361
362
            $sql->execute();
363
            $result = $sql->fetch();
364
365
            return $result;
366
        }
367
368
        public function findCategoriesById() {
            $sql = MyPdo::getInstance()->prepare('SELECT categories.* FROM categories LEFT JOIN
369
    restaurants categories as rc ON categories.id = rc.categoryId LEFT JOIN restaurants as r ON
    rc.restaurantId = r.id WHERE r.id = :id;');
370
            $sql->setFetchMode(PD0::FETCH_CLASS | PD0::FETCH_PROPS_LATE, 'Category');
371
            $sql->bindParam(':id', $this->getId());
372
            $sql->execute();
373
            $result = $sql->fetchAll();
374
375
            return $result;
376
        }
377 }
```