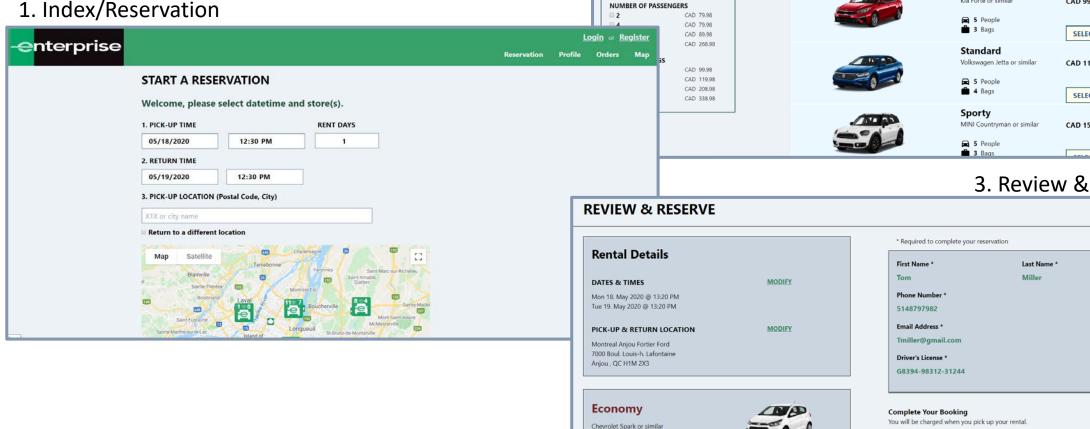


Wei Wang Donghyeok Seo

Car Rental Service

# Screenshots (user)

1. Index/Reservation



VEHICLE

Unlimited Kilometres

Time And Distance 1 Day(s) @ CAD 79.98

MODIFY

CAD 79.98

Included

#### 2. Car Selection

Filters

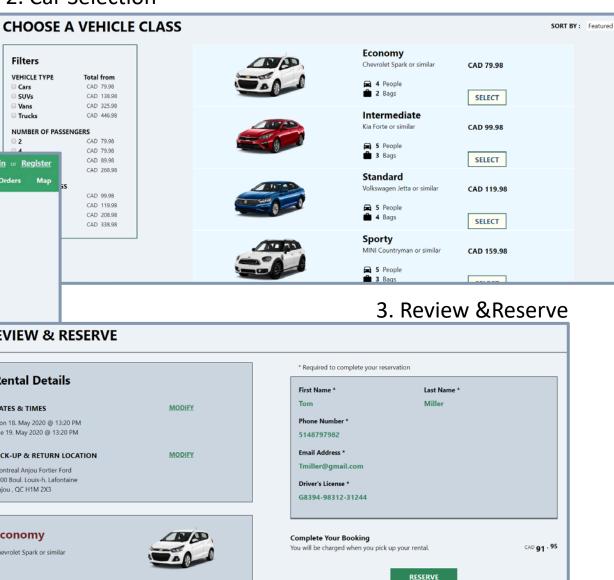
□ Cars

SUVs

Vans

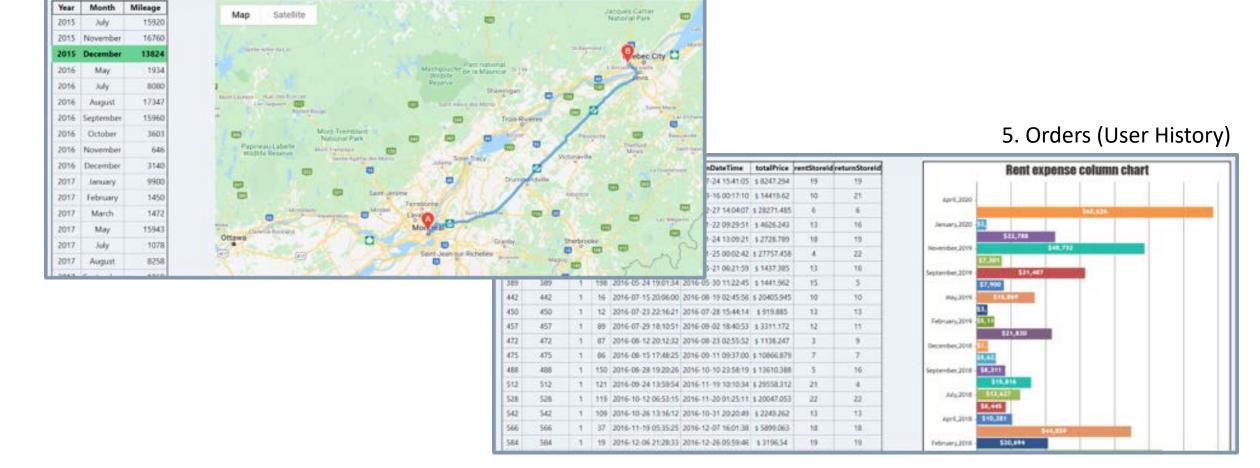
■ Trucks

VEHICLE TYPE



# Screenshots (user)

#### 4. Map (User History)

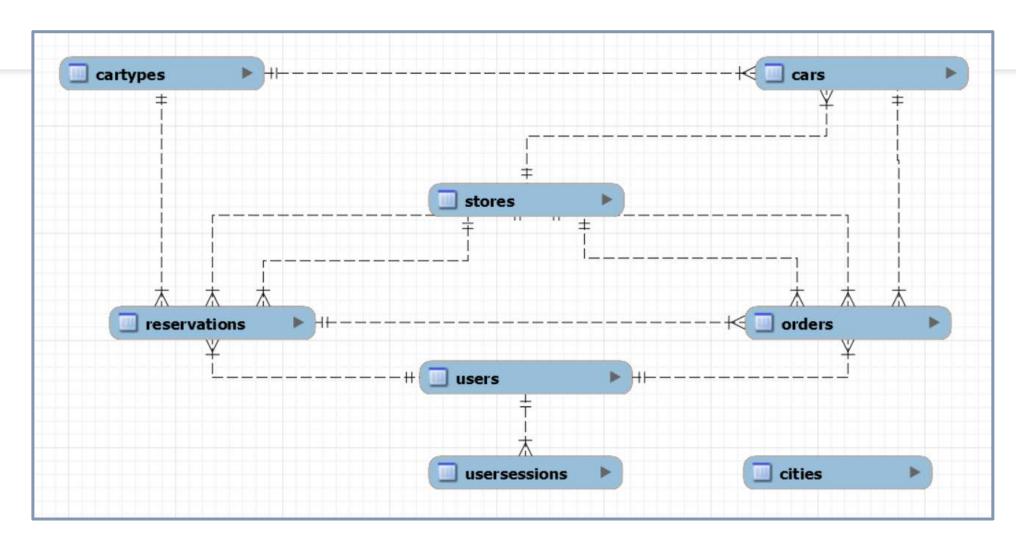


## Screenshots (admin)

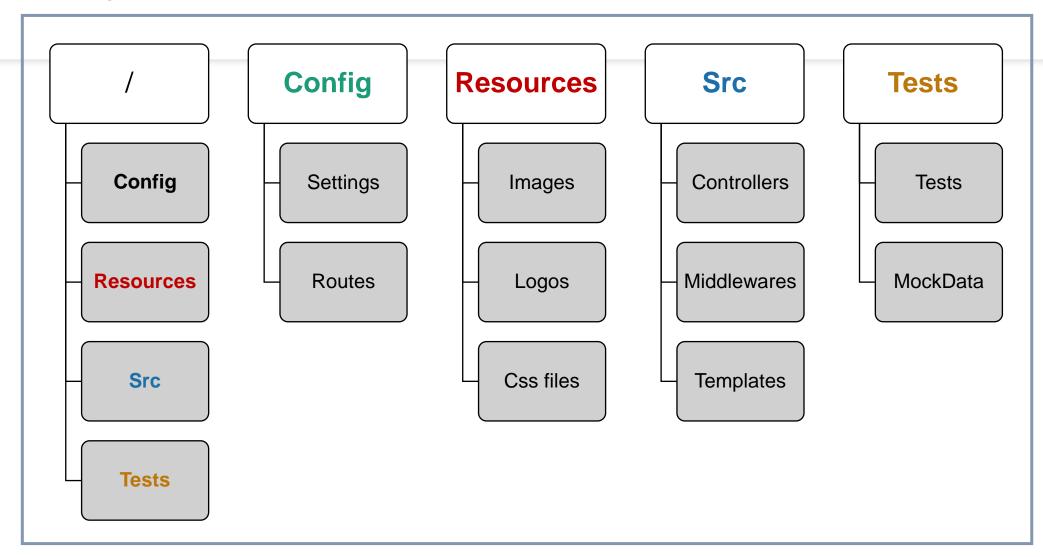
- Store, Car, CarType, Reservation, Order List



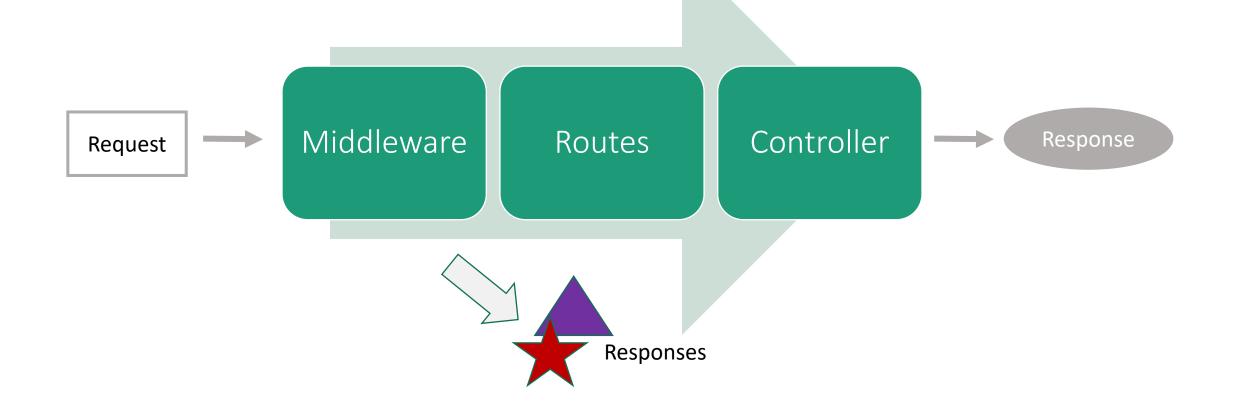
## Database Structure



# Project Structure



# Project Structure



### Project Structure (Controller)

```
$app->get('/', function (Request $request, Response $response, $args = [])
{
    $view = Twig::fromRequest($request);
    return $view->render($response, 'index.html.twig');
});
```

> In Route



```
$app->get('/', HomeController::class . ':home');
```

> In Route



```
class HomeController
{
    public function home(Request $request, Response $response, $args = [])
    {
        $view = Twig::fromRequest($request);
        return $view->render($response, 'index.html.twig');
    }
}
```

> In Controller

```
$app->group('/admin', function (RouteCollectorProxy $group) {
   $group->redirect('', '/admin/stores');
   $group->get('/ajax/users/{id:[0-9]+}', UserController::class . ':showToAdmin');
   $group->get('/stores', AdminStoreController::class . ':index');
   $group->get('/ajax/stores', AdminStoreController::class . ':showAll');
    $group->post('/ajax/stores', AdminStoreController::class . ':create');
    $group->get('/ajax/stores/{id:[0-9]+}', AdminStoreController::class . ':show');
   $group->patch('/ajax/stores/{id:[0-9]+}', AdminStoreController::class . ':edit');
   $group->delete('/ajax/stores/{id:[0-9]+}', AdminStoreController::class . ':delete');
   $group->get('/cars', AdminCarController::class . ':index');
   $group->get('/ajax/cars', AdminCarController::class . ':showAll');
   $group->post('/ajax/cars', AdminCarController::class . ':create');
   $group->get('/ajax/cars/{id:[0-9]+}', AdmincarController::class . ':show');
    $group->patch('/ajax/cars/{id:[0-9]+}', AdminCarController::class . ':edit');
    $group->delete('/ajax/cars/{id:[0-9]+}', AdminCarController::class . ':delete');
   $group->get('/cartypes', AdminCarTypeController::class . ':index');
   $group->get('/ajax/cartypes', AdminCarTypeController::class . ':showAll');
   $group->post('/ajax/cartypes', AdminCarTypeController::class . ':create');
   $group->get('/ajax/carTypes/{id:[0-9]+}', AdmincarTypeController::class . ':show');
   $group->patch('/ajax/cartypes/{id:[0-9]+}', AdminCarTypeController::class . ':edit');
   $group->delete('/ajax/cartypes/{id:[0-9]+}', AdminCarTypeController::class . ':delete');
   $group->get('/reservations', AdminReservationController::class . ':index');
   $group->get('/ajax/reservations', AdminReservationController::class . ':showAll');
   $group->post('/ajax/reservations', AdminReservationController::class . ':create');
   $group->get('/ajax/reservations/{id:[0-9]+}', AdminReservationController::class . ':show');
   $group->patch('/ajax/reservations/{id:[0-9]+}', AdminReservationController::class . ':edit');
   $group->delete('/ajax/reservations/{id:[0-9]+}', AdminReservationController::class . ':delete
   $group->get('/orders', AdminOrderController::class . ':index');
   $group->get('/ajax/orders', AdminOrderController::class . ':showAll');
   $group->post('/ajax/orders', AdminOrderController::class . ':create');
    $group_\get('/ajay/orders//id:[0-0]+\' AdminOrderController::class ':show'):
```

## Project Structure (Route)

## Project Structure (Middleware)

### Project Structure (Middleware)

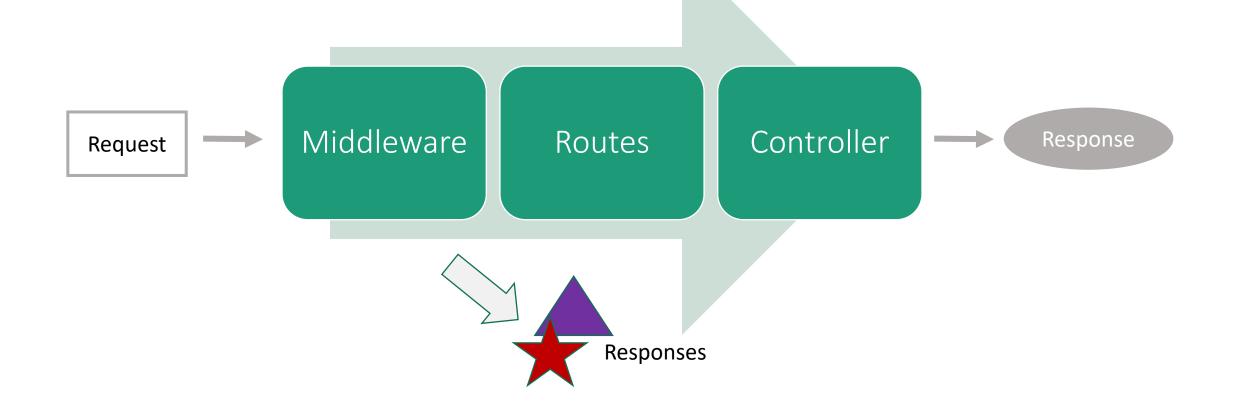
> In AuthMiddleware Class

#### > In Route

```
$app->group('/admin', function (RouteCollectorProxy $group)
    $group->redirect('', '/admin/stores');
    $group->get('/ajax/users/{id:[0-9]+}', UserController::cl
    $group->get('/stores', AdminStoreController::class . ':in
    $group->get('/ajax/stores', AdminStoreController::class
    $group->post('/ajax/stores', AdminStoreController::class
    $group->get('/ajax/stores/{id:[0-9]+}', AdminStoreControl
    $group->patch('/ajax/stores/{id:[0-9]+}', AdminStoreContr
    $group->delete('/ajax/stores/{id:[0-9]+}', AdminStoreCont
    $group->get('/orders', AdminOrderController::class . ':in
    $group->get('/ajax/orders', AdminOrderController::class
    $group->post('/ajax/orders', AdminOrderController::class
    $group->get('/ajax/orders/{id:[0-9]+}', AdminOrderControl
    $group->patch('/ajax/orders/{id:[0-9]+}', AdminOrderContr
   $group->delete('/ajay/orders/{id·[0-9]+}'. AdminOrderController::class . ':delete');
 -)->add(AuthMiddleware::mustBeLoginAsAdmin());
```

```
class AuthMiddleware implements Middleware
   public static function mustBeLoginAsAdmin()
       return function (Request $request, RequestHandler $handler) {
           $user = AuthMiddleware::getUserInCurrentSession(session id());
           $response = $handler->handle($request);
           if(empty($user)){
               return $response->withHeader('Location','/errors/forbidden');
           $role = DB::queryFirstField("SELECT role FROM users WHERE id=%s",$user['id']);
           if($role != 'admin'){
               return $response->withHeader('Location','/errors/forbidden');
           return $response;
```

# Project Structure



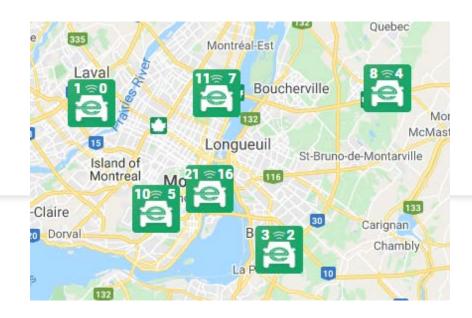
### Unit Test (PHPUnit & GuzzleHttp)

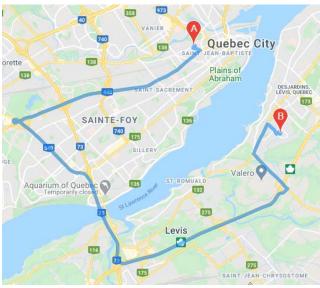
```
class UserControllerTest extends TestCase
   protected $client;
   protected $faker;
   public static function setUpBeforeClass(): void
       DB::$user = 'carrental';
       DB::$password = 'QFzyVmD4mY08Ah8G';
       DB::$dbName = 'carrental';
       DB::$port = 3333;
   protected function setUp():void
       $this->faker = Faker\Factory::create();
       $this->client = new GuzzleHttp\Client([
            'base uri' => 'http://project.ipd20:8888',
           'http errors' => false,
           'cookies' => true
       ]);
   protected function tearDown(): void
       DB::query("DELETE FROM users");
```

```
public function userCanSeeOnlyItsProfile(){
    $johnDoe = [
        'email' => 'johndoe@example.com',
        'password' => 'q1w2E3',
   $this->createUser($johnDoe);
    $johnId = $this->getUserId($johnDoe['email']);
    $janeDoe = [
        'email' => 'janedoe@example.com',
        'password' => 'q1w2E3'
   $this->createUser($janeDoe);
    $janeId = $this->getUserId($janeDoe['email']);
    $janeResponse = $this->client->post('/login',[
        'form params' => $janeDoe
    ]);
    $janeResponse = $this->client->request('GET','/profile/' . $johnId);
    $this->assertEquals(403,$janeResponse->getStatusCode());
    $janeResponse = $this->client->request('GET','/profile/' . $janeId);
    $this->assertEquals(200,$janeResponse->getStatusCode());
```

### Map requirements

- Display stores on google map.
- Use company logo as markers.
- Show details of a selected store.
- Retrieve and update available car number on the markers.
- Draw routes of finished orders on google map.
   (apply locations of different stores).





## Google Map API



#### Maps

Build customized, agile experiences that bring the real world to your users with static and dynamic maps, Street View imagery, and 360° views.

LEARN MORE



#### Routes

Help your users find the best way to get from A to Z with comprehensive data and real-time traffic.

LEARN MORE



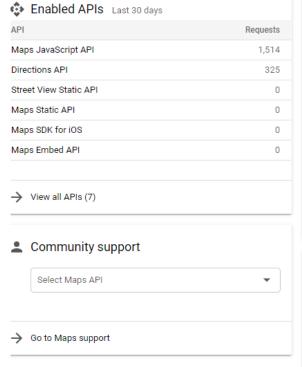
#### **Places**

Help users discover the world with rich location data for over 150 million places. Enable them to find specific places using phone numbers, addresses, and real-time signals.

LEARN MORE

## Google Maps

■ Traffic by response code Last 30 days





#### Maps

Maps JavaScript API

Maps SDK for Android

Maps SDK for iOS

Maps Static API

Street View Static API

Street view Static AFT

Maps Embed API

Maps URLs

Routes

Directions API

Distance Matrix API

Roads API

#### Places

Places API

Places SDK for Android

Places SDK for iOS

Places Library, Maps JavaScript API

Geocoding API

Geolocation API

Time Zone API

### Google Maps – Maps API

```
30
                                                          640
                                                                        Charlemagne
                                                                                                                                      ГП
             Satellite
 Map
                                                                                                                                      LJ
                                                      Terrebonne
                                                                                 Varennes
                                                                                                         Saint-Marc-sur-Richelieu
                         Blainville
                                                                                                Saint-Amable
Mirabel
                                                                                                   Quebec
                           Sainte-Thérèse
                                                                      Montréal-Est
                              Boisbriand
                                                                                                                        Sainte-Madeleine
                                                                                                              Mont-Saint-Hilaire
                     Saint-Eustache
                                                                                                          McMasterville
                                                                      Longueuil
            Sainte-Marthe-sur-le-Lac
                                                                                       St-Bruno-de-Montarville
                                                                                                                                     Saint-Da
                                                  Island of
                      Bizard Island
                                 Pointe-Claire
                                                                                                  Carignan
                                       20 Dorval
                                                                                                    Chambly
                                                                                                                                 Rougemont
 Vaudreuil-Dorion
                                                                                                       35
                                                               Saint-Constant
            Pincourt
                                                                                                 Saint-Luc
                                                                                                               Mont-Saint-Grégoire
                                                                                                                         Sainte-Brigio
 Les Cèdres
                                                                                              Saint-Jean-sur-Richelieu
                                                                                             Map data @2020 Google Terms of Use , Report a map error
```

```
function initMap() {
    map = new google.maps.Map(document.getElementById('googleMap'), {
        center: defaultLocation,
        zoom: 10,
        draggable: true
    });
    loadAdjacentStores(defaultLocation);
}

function newLocation(newLat, newLng) {
    map.setCenter({
        lat: newLat,
        lng: newLng
    });
}
```

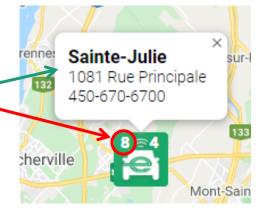
### Google Maps – Maps API

```
// Adds a marker to the map and push to the array.
function addMarker(location, store) {
   var marker = new google.maps.narker(1
       position: location,
       map: mαp,
       icon: {
           url: "../../resources/companyimages/enterprise_icon.jpg",
           scaledSize: new google.maps.Size(48, 48),
           origin: new google.maps.Point(0, 0),
           anchor: new google.maps.Point(10, 10),
          tabelOrigin: {x: 23, y: 10},
       title: store.storeName,
       animation: google.maps.Animation.DROP,
       label: {
           text: store['carNum'].carNum + '\xa0\xa0\xa0\xa0\ + store\'avaCarNum'].carNum,
           fontSize: "14px",
           fontWeight: "bold",
           color: "white"
   var storeInfo = formatStoreInfo(store);
   var infoWindow = new google.maps.InfoWindow({
       content: storeInfo
   marker.addListener('mouseover', function () {
       infoWindow.open(map, marker);
   marker.addListener('mouseout', function () {
       infoWindow.open(map, marker);
       setTimeout(function () {
           infoWindow.close()
        }, 500);
```

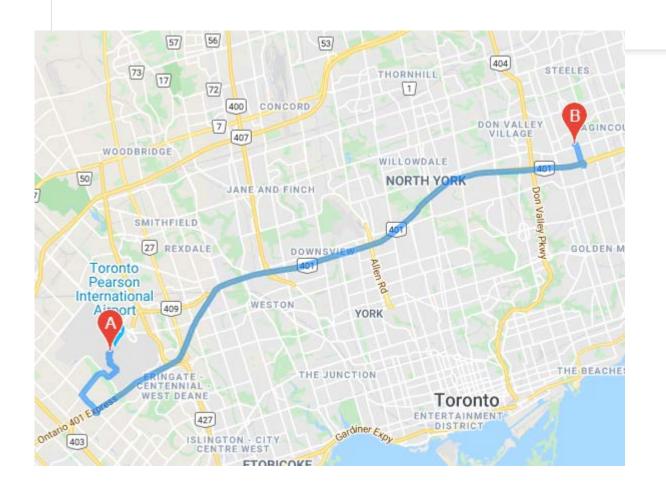
```
var marker;
function initMap() {
  var map = new google.maps.Map(document.getElementById('map'), {
    zoom: 13,
    center: {lat: 59.325. lng: 18.070}
  });

marker = new google.maps.Marker({
    map: map,
    draggable: true,
    animation: google.maps.Animation.DROP,
    position: {lat: 59.327, lng: 18.067}
  });

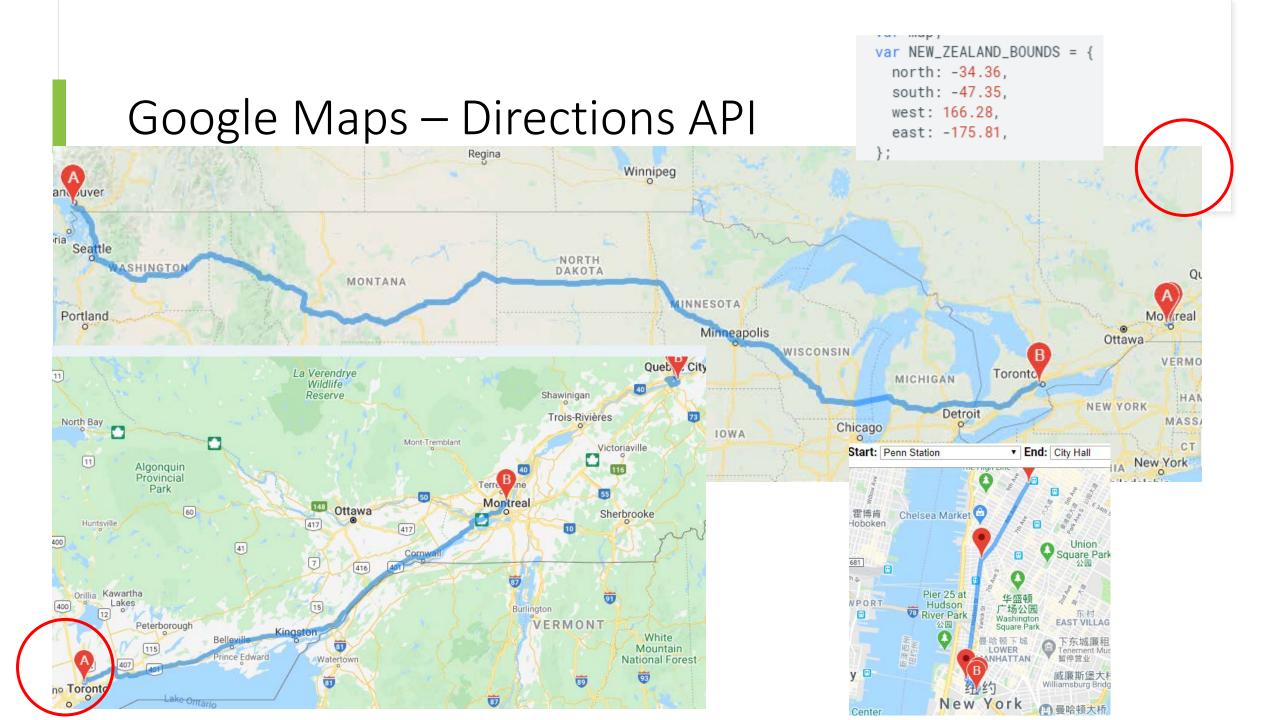
marker.addListener('click', toggleBounce);
}
```



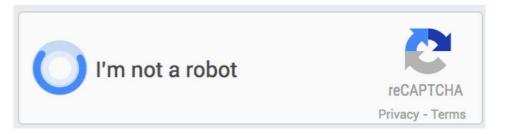
### Google Maps – Directions API

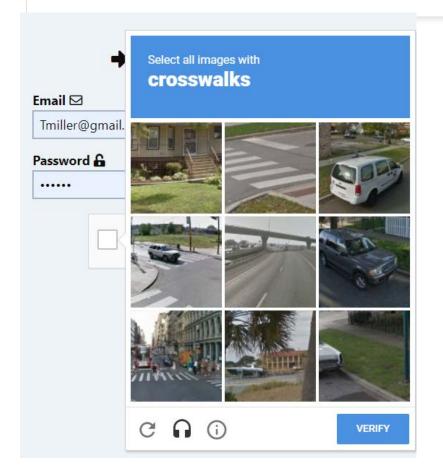


```
function calculateRoute(mapOrigin, mapDestination, index) {
   directionsDisplay[index] = new google.maps.DirectionsRenderer({
       map: mαp
    var request = {
       origin: mapOrigin,
        destination: mapDestination,
        travelMode: 'DRIVING'
   directionsService.route(request, function (result, status) {
       if (status === "OK") {
           directionsDisplay[index].setDirections(result);
           bounds.union(result.routes[0].bounds);
           mup.fitRounds(bounds):
function clearRoutes() {
    for (let i = 0; i < directionsDisplay.length; i++) {
       var route = directionsDisplay[i];
       if (route != null) {
           route.setMap(null);
   directionsDisplay = [];
```



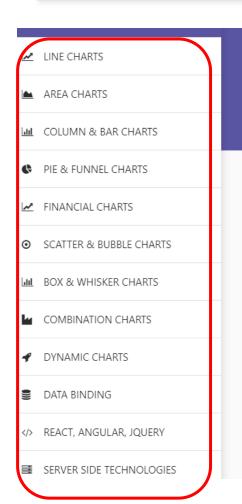
### ReCaptcha - V2

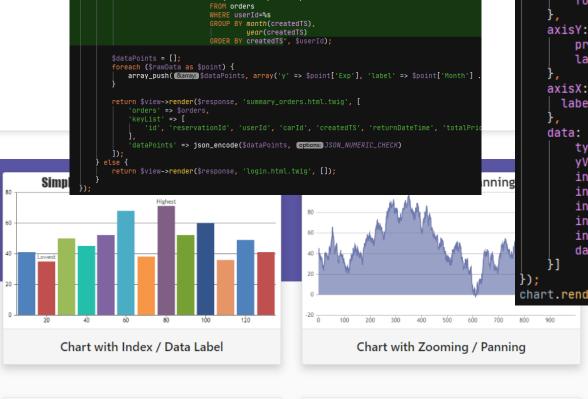




```
<div {#data-type="image"#} class="g-recaptcha inline-block"</pre>
                                                 Re6u6k"></div>
    data-sitekey="6LcF"
<script src="https://www.google.com/recaptcha/api.js?explicit&hl=en" async defer></script>
$app->post('/recaptcha', function (Request $request, Response $response, array $args)
   $params = json_decode($request->getBody()->getContents(), associtrue);
   $captcha = $params['captcha'];
   $verify = file_get_contents("https://www.google.com/recaptcha/api/siteyerify?secret
   $captcha_success = ison_decode($verify);
   if ($captcha_success->success == false) {
       return $response->withStatus(400);
    $response->withStatus(200);
   $response->getBody()->write(json_encode(['success' => 'true', 'msg' => 'reCaptcha \)
   return $response;
```

#### CanvasJS



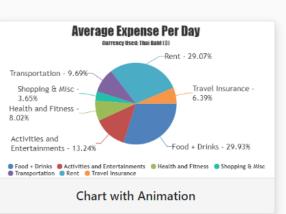


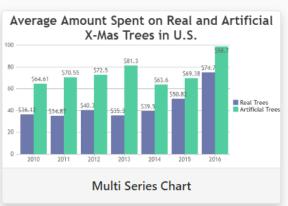
pp->get('/summary/orders', function (Request \$request, Response \$response, array \$args) {

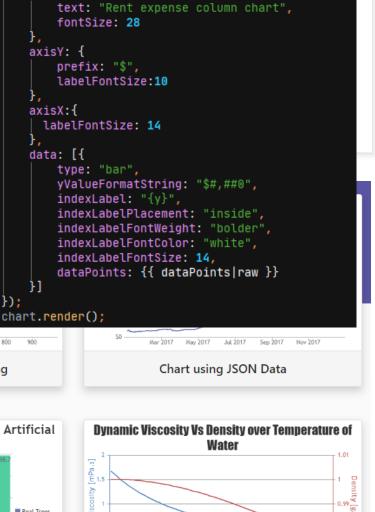
\$\text{\$\frac{3}{3}\text{\$\frac{1}\text{\$\frac{1}{3}\text{\$\frac{1}\text{\$\frac{1}\text{\$\frac{1}\text{\$\frac{1}\text{\$\frac{1}\text{\$\frac{1}\text{\$\f

yeαr(createdTS) as 'Year' SUM(totalPrice) as 'Exp'

b-yet( /Sommany.org.)
sylew = Twig::fromRequest(\$request);
if (isset(\$\_SESSION['userId'])) {
 \$userId = \$\_SESSION['userId'];



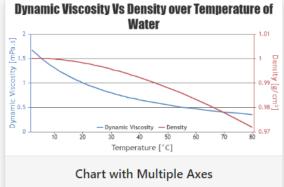




ar chart = new CanvasJS.Chart("chartContainer", {

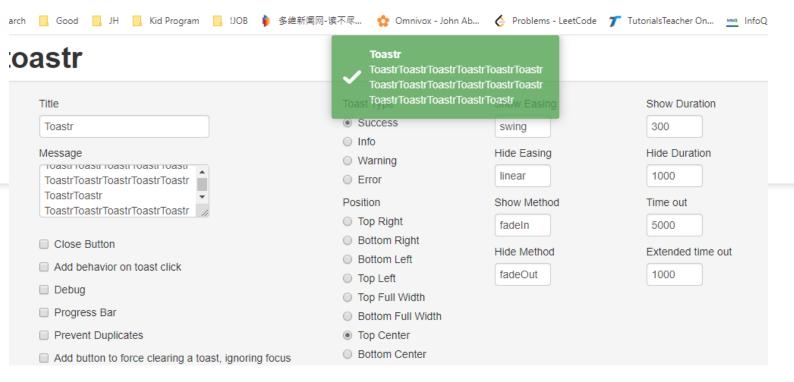
animationEnabled: true,

title: {



#### Toastr

```
toastr.options = {
    "closeButton": false,
    "debug": false,
    "newestOnTop": true,
    "progressBar": true,
    "positionClass": "toast-top-center",
    "preventDuplicates": false,
    "showDuration": "300",
    "hideDuration": "1000",
    "timeOut": "4000",
    "extendedTimeOut": "1000",
    "showEasing": "swing",
    "hideEasing": "linear",
    "showMethod": "fadeIn",
    "hideMethod": "fadeOut"
}
```



toastr.error("PICKUP store need select", "Store selection error");

#### Todo

- Improve user authentication
- Improve order/reservation validation etc.
- Add more user functions: password reset etc.
- Admin page validation, search

Thank you!

