

“Admin Web Panel ”

Table of Contents

1. [What is SchoolTripTrack? \(#general\)](#)
2. [Prerequisites \(#prerequisites\)](#)
3. [Firebase \(#firebase\)](#)
4. [Payment Configuration \(#payment\)](#)
5. [Installation \(#installation\)](#)
6. [Activation & Configuration \(#configuration\)](#)
7. [FAQ \(#faq\)](#)

A) What is SchoolTripTrack? - [top \(#toc\)](#)

SchoolTripTrack is a comprehensive multi-vendor school bus tracker system for managing the daily school bus operation that links the school, the guardians and the buses into one powerful system..

SchoolTripTrack consists of two Flutter apps for guardians and drivers along with an Admin panel with a Laravel API system as a back-end and a Vue.js front-end system as a web interface.

Here we present the **Admin web panel sub system**

B) Prerequisites - [top \(#toc\)](#)

To ensure that the admin panel fully operational, some prerequisites need to be installed. In the following, I will list the required prerequisites and show how you can install them on a Ubuntu machine

1. Apache web server

```
sudo apt update
sudo apt install apache2
```

2. Mysql server database engine

```
sudo apt install mysql-server
```

3. Set the password of the root for the mysql server database engine

```
#open a mysql terminal
sudo mysql -u root #press enter when prompted for a password
#write the following in mysql terminal
ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'YOUR PASSWORD HERE';
#exit the mysql terminal
exit;
```

4. Php 8.1

```
sudo apt install software-properties-common
sudo add-apt-repository ppa:ondrej/php
sudo apt update
sudo apt install php8.1
```

5. Php 8.1 extensions

```
sudo apt install php8.1-common php8.1-mysql php8.1-xml php8.1-xmlrpc php8.1-curl php8.1-gd php8.1-imagick php8.1-cli php8.1-dev php8.1-ldap php8.1-mbstring php8.1-redis php8.1-smbclient php8.1-ssh2 php8.1-tidy php8.1-tokenizer php8.1-xmlwriter php8.1-zip
```

```
sudo apt-get install php-curl php-xml php-mbstring -y
```

6. Enable mod_rewrite for Apache

```
sudo a2enmod rewrite
sudo systemctl restart apache2
```

7. Configure apache for php8.1

```
sudo apt-get install libapache2-mod-php8.1
sudo a2enmod php8.1
sudo systemctl restart apache2
```

8. Composer

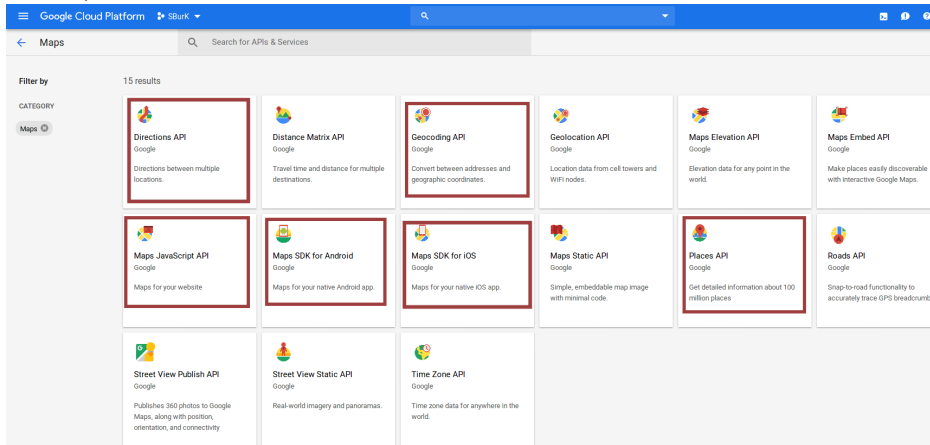
```
sudo apt-get update
php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"
sudo apt-get install curl php-cli php-mbstring git unzip
sudo php composer-setup.php --install-dir=/usr/local/bin --filename=composer
```

9. Please make sure that you have accounts for

- [Google maps API \(https://developers.google.com/maps/documentation/android-sdk/get-api-key\)](https://developers.google.com/maps/documentation/android-sdk/get-api-key)

Please make sure that you enable the following APIs

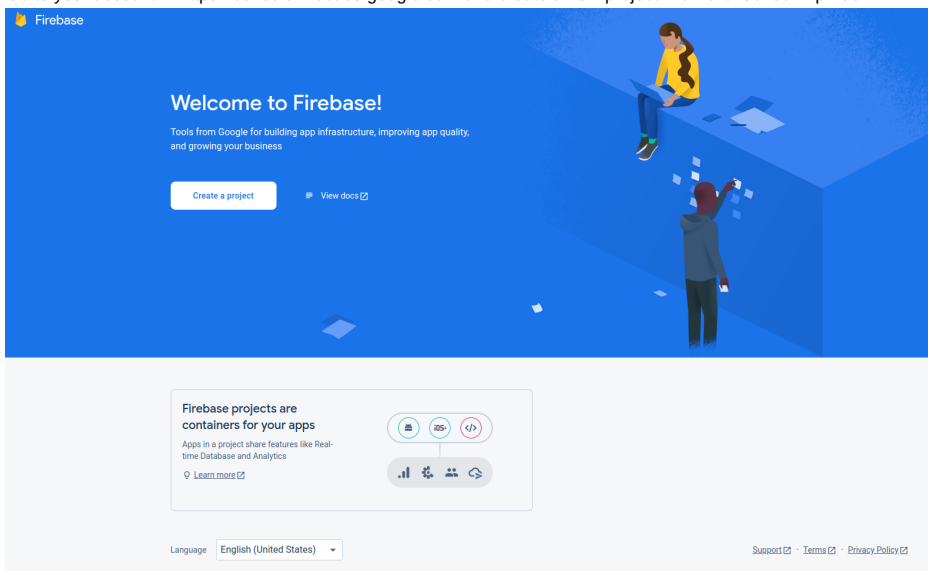
- Geocoding API
- Maps JavaScript API
- Places API
- Directions API
- Maps SDK for Android
- Maps SDK for iOS



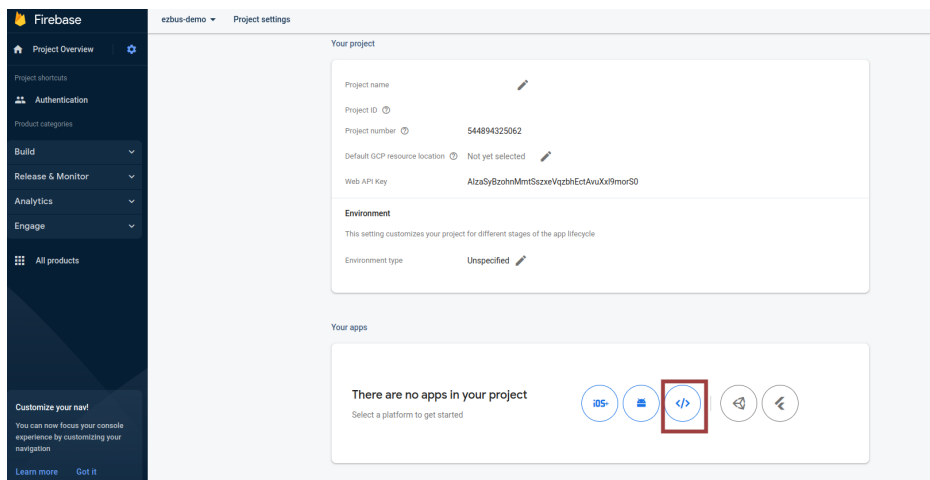
- [Firebase account \(https://firebase.google.com\)](https://firebase.google.com)
- **Braintree SDK.** You can test with a [sandbox \(https://sandbox.braintreegateway.com\)](https://sandbox.braintreegateway.com) account OR integrate a [live \(https://www.braintreegateway.com\)](https://www.braintreegateway.com) account.

C) Firebase - [top \(#toc\)](#)

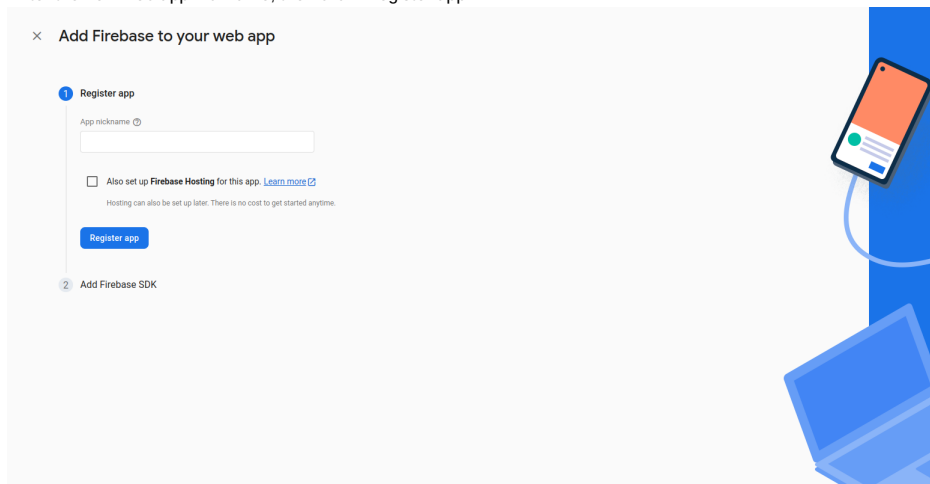
1. Go to your account in <https://console.firebase.google.com> and create a new project. Name it "SchoolTripTrack".



2. Create a new web app

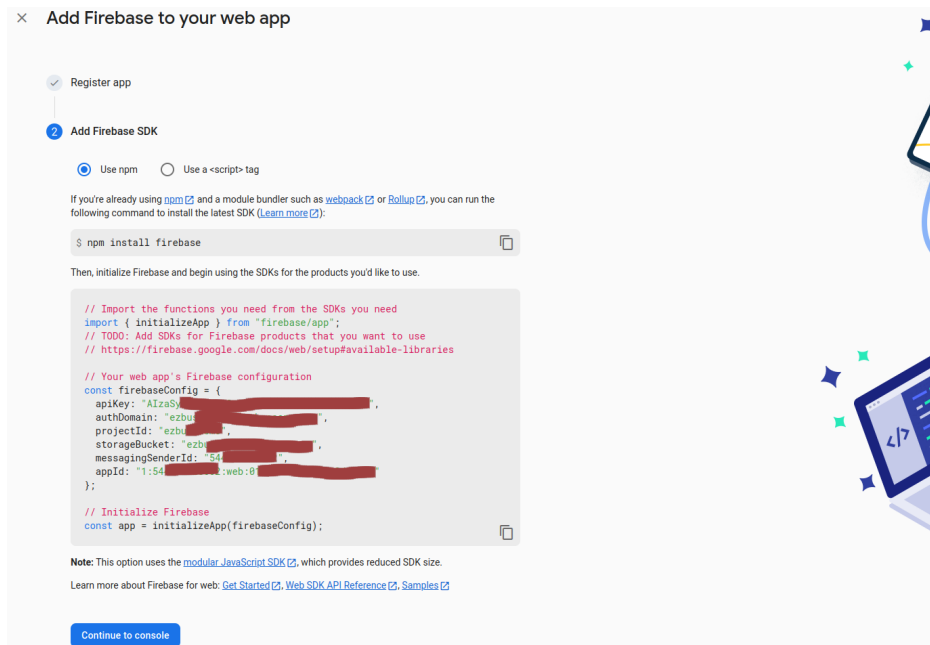


3. Enter the new web app nickname, then click "Register app"



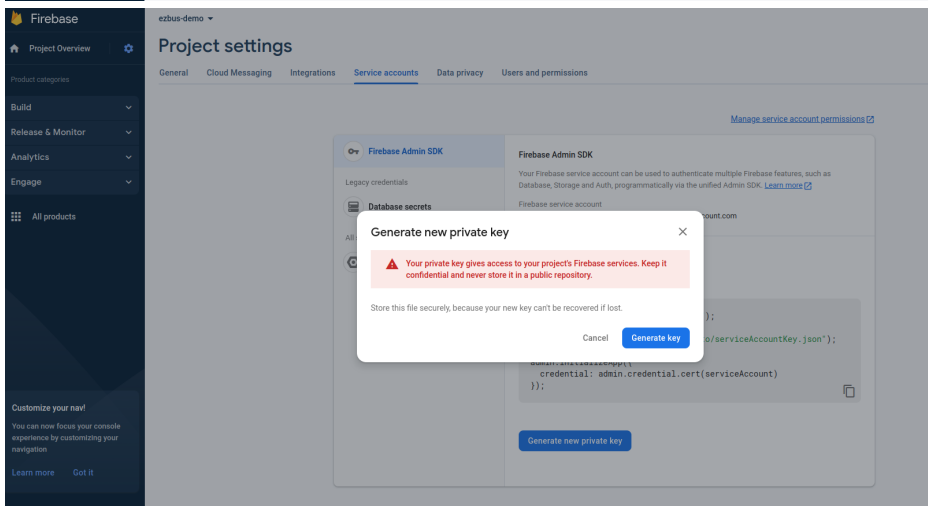
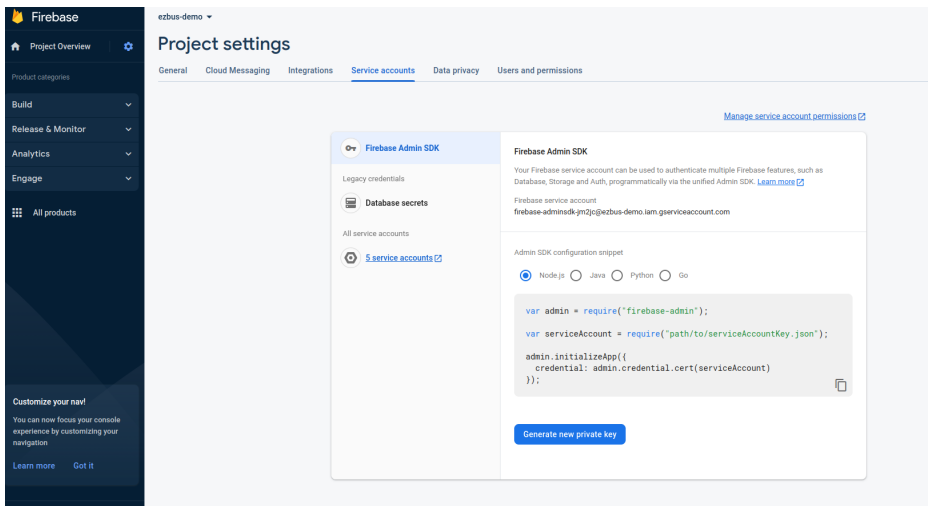
4. Copy the firebase config object.

Please record them as we will use them later.

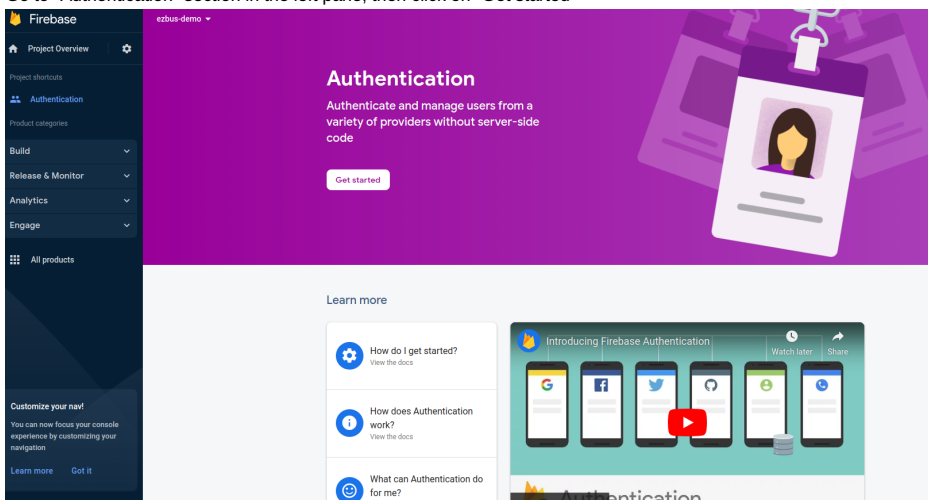


5. Go to settings of the web app, then open "Service accounts" tab. Click on "Generate new private key". Keep the downloaded file with the same name. The downloaded file name is in the form "SchoolTripTrack-demo-firebase-adminsdk-jm2jc-c057abcdef.json".

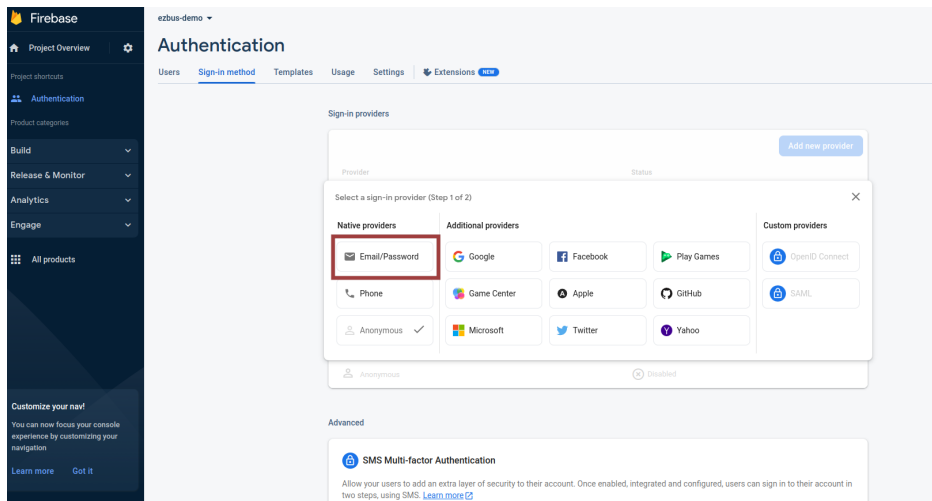
Please record the file name as we will use it later.



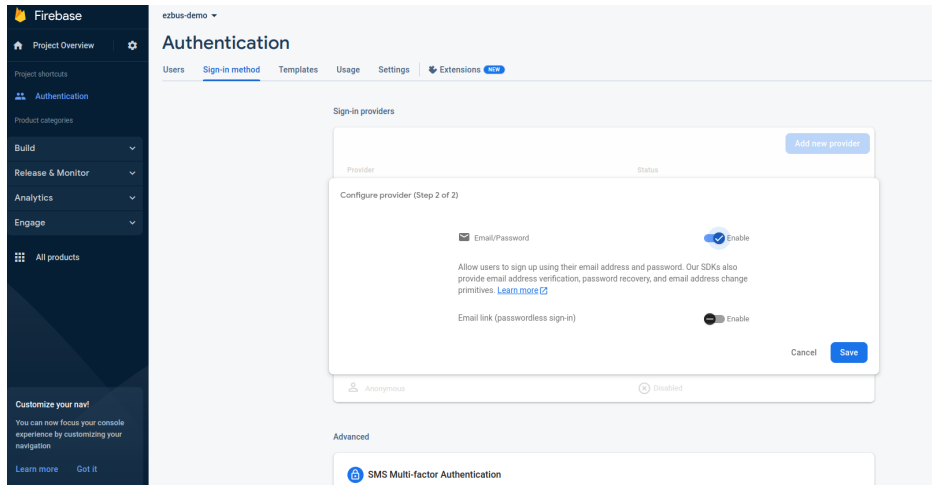
6. Go to "Authentication" section in the left pane, then click on "Get started"



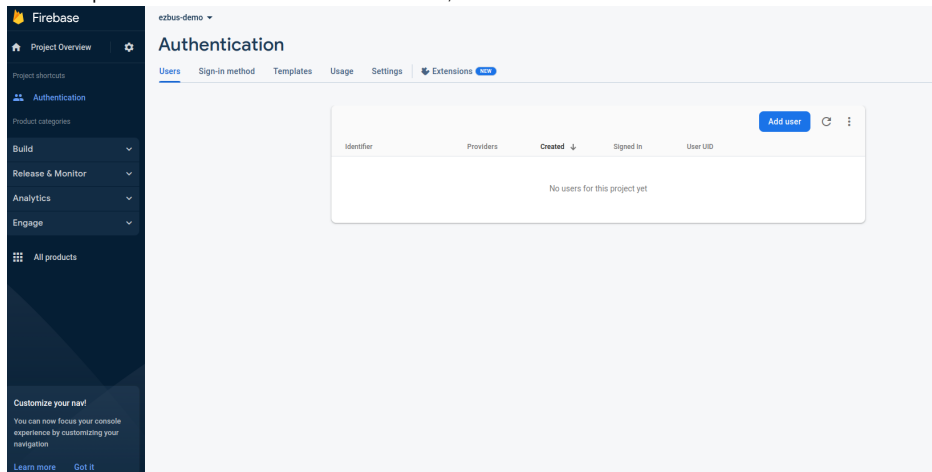
7. Select Email provider



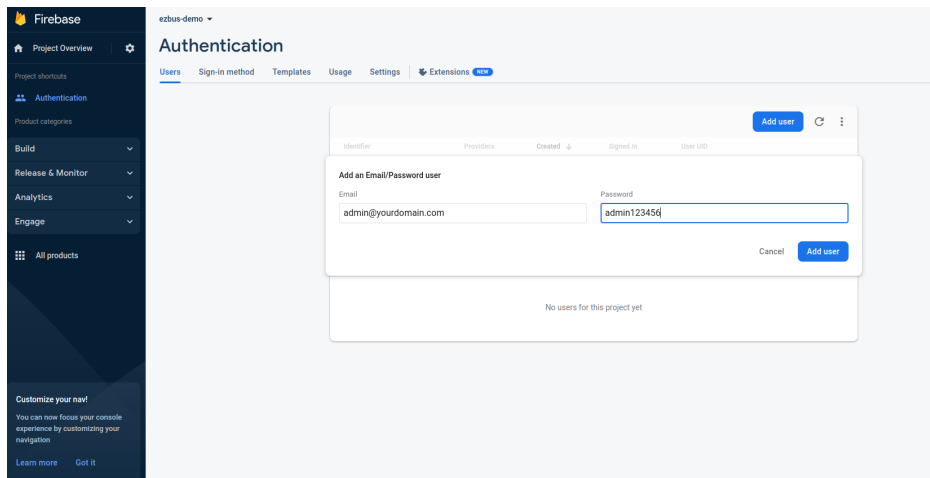
8. Enable Email/Password



9. Add the super admin account. Go to "Users" section tab, then click on "Add user"

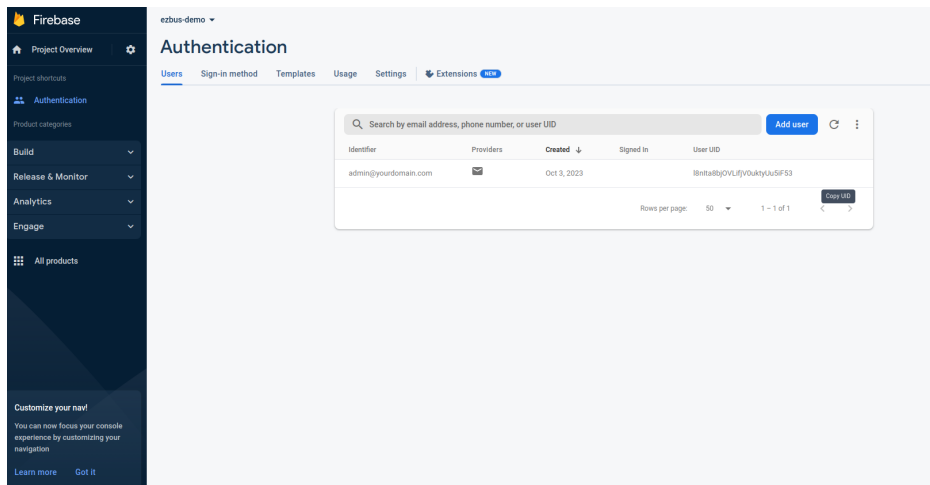


10. Enter the email of the super admin and a password, then click on "Add user"



11. Get the UID of the super admin. Go to "Users" section tab, then copy the UID.

Please record email, password, and UID as we will use them later.



D) Payment Configuration - [top \(#toc\)](#)

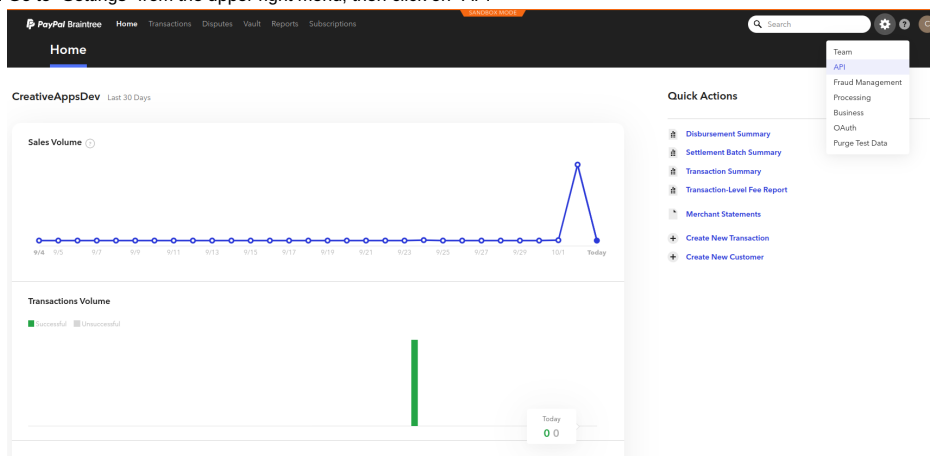
The system has Braintree payment gateway. In the following, we show how to configure it.

1) Braintree

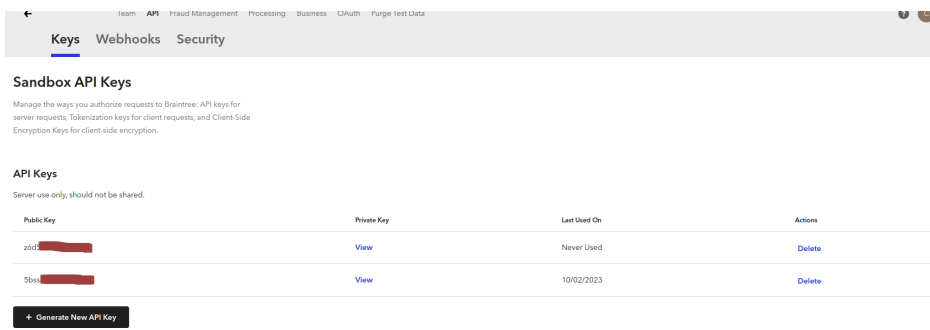
You need to get "Public Key", "Private Key", and "Merchant ID" from Braintree dashboard.

Please record them as we will use them later.

1. Go to your account in <https://www.braintreegateway.com> or <https://sandbox.braintreegateway.com>
2. Go to "Settings" from the upper right menu, then click on "API"



3. Click on "Generate New API Key"

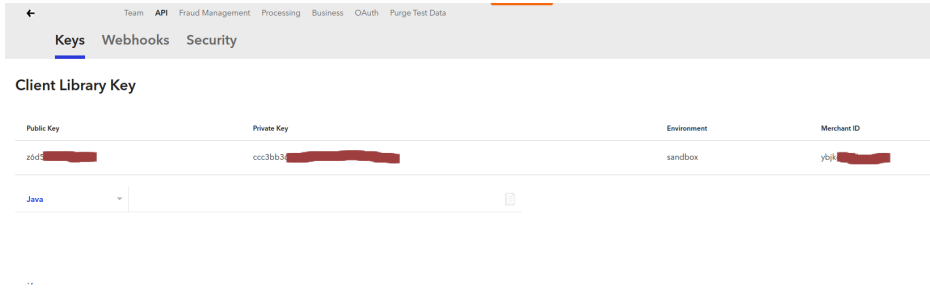


Tokenization Keys

For use in Braintree SDKs

- Click on view for the generated key to get the "Public Key", "Private Key", and "Merchant ID".

Please record them as we will use them later.



E) Installation - [top \(#toc\)](#)

As we indicated, the admin panel composed of a Laravel API system as a back-end and a Vue.js front-end system as a web interface. We indicate the installation steps for each of them separately.

1) Laravel API system installation

I assume that the purchased admin web panel is located in the folder "SchoolTripTrack" at "/home/SchoolTripTrack". You can modify this path if you download the folder in a different path. Please follow the following steps for installation

- Go inside the folder

```
cd /home/SchoolTripTrack
```

- Ensure that php 8.1 is the current version of your php by typing the command

```
sudo update-alternatives --config php
```

- Install dependencies

```
composer install
```

- Make a link to storage folder in the public folder

```
ln -s ../../storage/app/public public/backend/storage
```

- Put the downloaded file in step (C)-5 above in the "SchoolTripTrack" folder

- Create the .env file from the provided example .env

```
cp .env.example .env
```

- Edit the .env file and set the following

```
APP_URL = your web site url, for example www.mydomain.com
DB_USERNAME = root
DB_PASSWORD = password of root user of mysql database
FIREBASE_CREDENTIALS=Write the downloaded name in step (C)-5 and pre-append it with ./ (for example, ./SchoolTripTrack-demo-1
```

If you want to use Braintree, then set the following

```
BRAINTREE_ENV=sandbox or live
BRAINTREE_MERCHANT_ID= your Braintree merchant ID from step (D)-1
BRAINTREE_PUBLIC_KEY= your Braintree public key from step (D)-1
BRAINTREE_PRIVATE_KEY= your Braintree private key from step (D)-1
```

8. Generate a new key

```
php artisan key:generate
```

9. Give full permission to storage and bootstrap/cache folders

```
chmod -R 777 storage bootstrap/cache
```

10. Change owner of the public and avatar folders

```
sudo chown -R $USER:$USER public
sudo chown -R $USER:$USER storage/app/public/avatars/
```

11. Configure an Apache virtual host for SchoolTripTrack

- Create a configuration file for the virtual host for SchoolTripTrack

```
sudo cp /etc/apache2/sites-available/000-default.conf /etc/apache2/sites-available/SchoolTripTrack.conf
```

- Edit the configuration file "/etc/apache2/sites-available/SchoolTripTrack.conf" and replace its contents with the following

```
<VirtualHost *:80>
    ServerName SchoolTripTrack
    DocumentRoot /home/SchoolTripTrack/public
    <Directory /home/SchoolTripTrack/public>
        Options Indexes FollowSymLinks MultiViews
        AllowOverride All
        Require all granted
    </Directory>
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

- Enable the configuration file "SchoolTripTrack.conf"

```
sudo a2dissite 000-default.conf
sudo a2ensite SchoolTripTrack.conf
sudo systemctl restart apache2
```

12. Open mysql terminal and create a database with name "SchoolTripTrack_db"

```
mysql -u root -p #enter the root password when prompted
create database SchoolTripTrack_db; #then exit the mysql terminal
```

13. Make sure that you give full permission to storage and bootstrap/cache folders.

Database migration will fail if you did not do this

```
chmod -R 777 storage bootstrap/cache
```

14. Make sure that you have changed the owner of the public and avatar folders.

Database migration will fail if you did not do this

```
sudo chown -R $USER:$USER public
sudo chown -R $USER:$USER storage/app/public/avatars/
```

15. Update the super admin credentials in the users seeder file in "database/seeder/UsersTableSeeder.php". Write the email, password, and UID of the super admin, that was obtained in step (C)-11, in this seeder file.

Database migration will fail if you did not do this

```
$user = User::create([
    'name' => 'SuperAdmin',
    'email' => 'admin@yourdomain.com',
    'password' => Hash::make('admin123456'),
    'role' => 0,
    'status_id' => 1,
    'uid' => "l8nIta8bj0VLifjV0uktyUu5iF53"
]);
```

16. Migrate the database

```
php artisan migrate:fresh --seed
```

17. Install redis server

```
sudo apt-get install redis-server
sudo systemctl enable redis-server.service
sudo apt-get install php-redis
```

18. Install npm


```
sudo apt-get install nodejs
sudo apt-get install npm
```

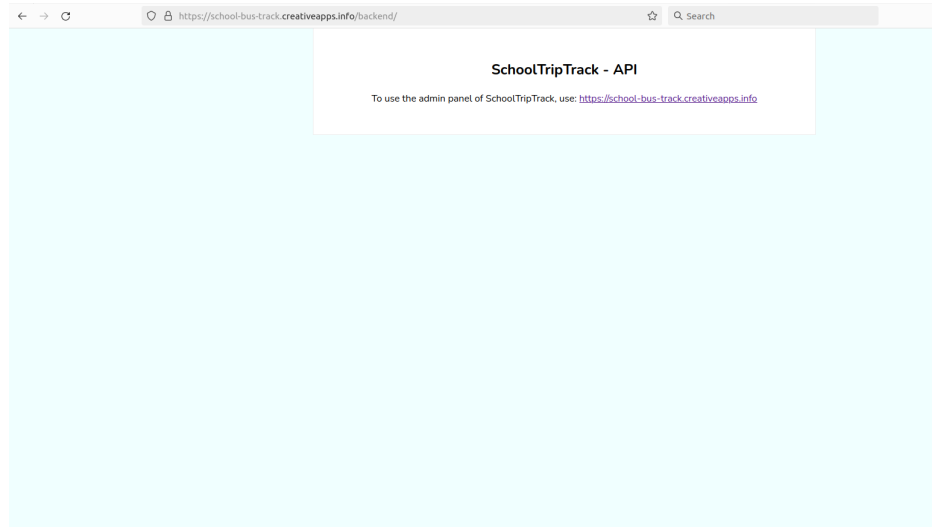
19. Install Laravel echo server

```
sudo npm install -g laravel-echo-server
sudo laravel-echo-server init #I recommend to press enter to choose the default answer for every question (except if you have
sudo nohup laravel-echo-server start & #start the laravel-echo-server in background and make it permanently alive
```

20. Update permissions of privacy and terms pages.

```
chmod 777 public/privacy.html
chmod 777 public/privacy_local.html
chmod 777 public/terms.html
chmod 777 public/terms_local.html
```

Now, the Laravel API system is ready to be used. You can verify that by opening the url "your domain and append it with /backend (for example [www.mydomain.com/backend](https://school-bus-track.creativeapps.info/backend/)) in a browser. You should see the following image



2) Vue.Js Front End

In the following, we show how to install the Vue.js front end that will be used as a web interface for the admin panel

1. Go inside the folder

```
cd /home/SchoolTripTrack
```

2. Go inside the folder "frontend"

```
cd front-end
```

3. Create the .env.production file from the provided example .env.production.example

```
cp .env.production.example .env.production
```

4. Edit the file ".env.production" and set the following

```
# API Config
VUE_APP_API_URL=your web site url, for example www.mydomain.com and append it with /backend. For example, www.mydomain.com/ba

# Firebase Config
VUE_APP_API_KEY=AizaSy.... (from step (C)-4)
VUE_APP_AUTH_DOMAIN=SchoolTripTrack... (from step (C)-4)
VUE_APP_PROJECT_ID=SchoolTripTrack... (from step (C)-4)
VUE_APP_STORAGE_BUCKET=SchoolTripTrack... (from step (C)-4)
VUE_APP_MESSAGING_SENDER_ID=544..... (from step (C)-4)
VUE_APP_APP_ID=1:544.....:web:01b..... (from step (C)-4)

# Google Maps Config
VUE_APP_GOOGLE_MAPS_API_KEY=Your Google Maps API key.

# System Name
VUE_APP_SYSTEM_NAME= Your System Name (instead of SchoolTripTrack)
```

5. Edit the file "front-end/public/index.html" and set the title to your system name (instead of SchoolTripTrack)

```
<title>Your System Name</title>
```

6. Install dependencies

```
npm install
```

7. Build the project

```
npm run build
```

8. Copy the generated files to the public folder of the Laravel API system

```
cp -r dist/* ../public/
```

Now, the Vue.js front end is ready to be used. You can verify that by opening the url "your domain (for example www.mydomain.com) in a browser. You should see the login page of the admin panel

F) Activation & Configuration - [top \(#toc\)](#)

Once you installed SchoolTripTrack as indicated above, login with the super admin account credentials to set the different keys used by SchoolTripTrack

1. Go to this [link \(https://auth.creativeapps.info\)](https://auth.creativeapps.info) and enter your purchase key. Please enter your complete website URL, for example https://www.mydomain.com and append it with /backend. For example,https:// www.mydomain.com/backend You can get the purchase key from your CodeCanyon download section. More information is [here \(https://help.market.envato.com/hc/en-us/articles/202822600-Where-Is-My-Purchase-Code-\)](https://help.market.envato.com/hc/en-us/articles/202822600-Where-Is-My-Purchase-Code-). domain (or localhost). You will get two secure keys. One for your web site url and the other for localhost. **Copy your secure keys and keep it in a safe place as you will not be able to generate them again.**

2. Open your web site and login with the super admin credentials.

3. You will see "Activate your account" button. Click on it and you will be redirected to the activation page

4. Enter your secure key and click "Activate"

5. Add scheduling entry for cron. This step is very important to handle all automated tasks

- First open your terminal and run

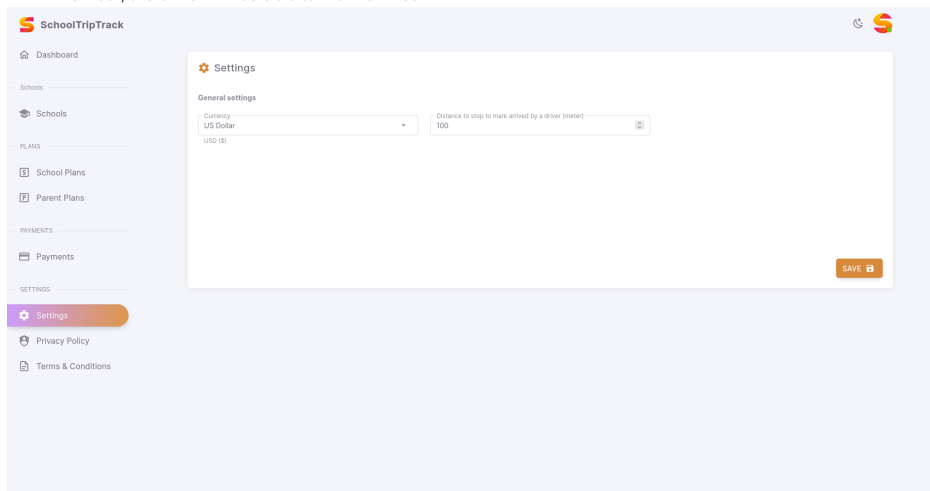
```
crontab -e
```

- Then add the following line

```
* * * * * cd /home/SchoolTripTrack && php artisan schedule:run >> /dev/null 2>&1
```

6. Adjust the settings of the admin panel. Specifically, you need to set the following

- **Currency**
- **Distance to stop to mark arrived by a driver:** this is the distance that will be used to calculate the distance between the driver and the stop. If the distance is less than this number, the driver will be able to mark arrived



G) FAQ - [top \(#toc\)](#)

1. I do not see any trips in the apps even I created some trips in the admin panel

Make sure that you write the crontab command correctly. Please see step (F)-5 above

2. When I change some details in a trip, it is not reflected in the apps

Note that the apps are working on a copied version from the trips table. This means that any change in the trips table will not be reflected immediately in the apps, but will be reflected in future trips.

3. Laravel-echo-server not working

Configure your firewall and make sure that you allow traffic through the port 6001

4. How do I know that the laravel-echo-server is working correctly?

Go to the url of the admin panel and append it with 6001, i.e., open `http://YOUR_WEBSERVER_URL:6001` and check if it gives OK

5. The home page of the admin panel gives a blank white page

- Make sure that you give full permission to storage and bootstrap/cache folders by

```
chmod -R 777 storage bootstrap/cache
```

- Make sure that you edit the `.env` file correctly
- Make sure that you edit the `.env.production` file correctly

Once again, thank you so much for using SchoolTripTrack. As I said at the beginning, I'd be glad to help you if you have any questions. I'll do my best to assist. If you have a more general question relating to the items on CodeCanyon, you might consider visiting the forums and asking your question in the "Item Discussion" section.

CreativeAppsDev Team

[Go To Table of Contents \(#toc\)](#)