Car Survey PH API Documentation

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1 Overview

CarSurvey PH provides users with insights about the fair market value (FMV) and depreciation evaluation of second-hand motorcycles and trucks in the Philippines. The API allows authenticated users to retrieve estimated vehicle pricing evaluations.

2 Base URL

http://3.26.1.211:8000/

3 Authentication

The API uses key-based authentication to verify users and enable requests.

3.1 Creating a New User and Retrieving an API Token

To create a new user and obtain an API token, follow these steps:

Open terminal to location ..\CS191-Car-Survey-PH\api

```
cd ..\CS191-Car-Survey-PH\api
```

Access the Django shell

```
python manage.py shell
```

Create a new user

```
from django.contrib.auth.models import User
user = User.objects.create_user(username='user', email='
user@example.com', password='password')
user.save()
```

Generate an API token for the user

```
from rest_framework.authtoken.models import Token
token, created = Token.objects.get_or_create(user=user)
print(token.key)
```

Copy the generated token and use it for authentication in API requests.

3.2 Using the API Key

Include the API key in the Authorization header of each request:

```
Authorization: Token 'YourAPIKey'
```

4 Endpoints

4.1 Fair Market Value (FMV) of a Vehicle

Endpoint: GET /fmv/

Description: Retrieves the fair market value of the inputted motorcycle or truck based on its maker, model, and year.

Sample Request Format:

```
{
   "vehicle": "motors",
   "maker": "Honda",
   "model": "Click 125i",
   "year": 2022
}
```

Sample Response Format:

```
{
   "value_price": 78284.6,
   "highest_value": 117220.99,
   "lowest_value": 78284.6
}
```

Sample Javascript Request:

```
headers: {

"Authorization": "Token 'YourAPIKey'",

"Content-Type": "application/json"

}

}

}
```

4.2 Depreciation Value of a Vehicle

Endpoint: GET /depreciation/

Description: Calculates the depreciation value of the inputted vehicle based on its maker, model, and year.

Sample Request Format:

```
{
  "vehicle_type": "trucks",
  "maker": "Mitsubishi",
  "model": "L300",
  "year": 2023
}
```

Sample Response Format:

Depreciation value refers to the amount a vehicle's value loses after each year. The 'values' array displays the market value of the vehicle for this year, along with its projected value for the next 10 years.

5 Error Handling

5.1 Authentication Errors

Example Response:

```
{
    "detail": "Authentication credentials were not provided."
}
```