

Classic Car Blog

A full-stack web application for **classic cars enthusiasts**, featuring a collection of iconic vehicles. Users can register, login, like cars, and view detailed car information. Built with **Django REST Framework** (backend) and **Angular 20 + PrimeNG** (frontend).

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Project Overview

Classic Car Blog provides a platform to showcase classic cars, emphasizing JDM, European, and American legends. The platform allows user registration, authentication, car liking, commenting, and admin car management.

Features

- User registration & login (token-based authentication)
 - Like and comment on cars
 - Featured car section and car collections
 - Responsive UI with PrimeNG components
 - Admin panel for car management
 - Home page full-width layout; other pages constrained with a container
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Technologies Used

Backend:

- Python 3.13+
- Django 5.1+
- Django REST Framework
- Django REST Framework Token Authentication
- Django CORS Headers
- SQLite (default) or PostgreSQL

Frontend:

- Angular 20
 - PrimeNG & PrimeIcons
 - Tailwind CSS
 - RxJS
-

Project Structure

```
classic-car-blog/
|
├─ backend/
|   │   ├── carproject/           # Django project settings
|   │   ├── cars/                # Cars app (models, views, serializers)
|   │   ├── users/               # Users app (authentication)
|   │   ├── manage.py
|   │   └── requirements.txt      # Python dependencies
|
├─ frontend/
|   │   ├── src/app/
|   │   │   ├── auth/           # Login & Register components
|   │   │   ├── components/     # Home, CarList, CarDetails, LikeButton
|   │   │   ├── services/       # AuthService, CarService
|   │   │   ├── navbar/         # Navbar component
|   │   │   └── app.component.ts
|   │   ├── package.json
|   │   └── angular.json
|
└─ README.md
```

Setup Instructions

Backend Setup

1. Clone the repository:

```
git clone <repository-url>  
cd classic-car-blog/backend
```

1. Create and activate a virtual environment:

```
python -m venv venv  
# Linux/Mac  
source venv/bin/activate  
# Windows  
venv\Scripts\activate
```

1. Install dependencies:

```
pip install -r requirements.txt
```

1. Apply database migrations:

```
python manage.py migrate
```

1. Create a superuser for admin access:

```
python manage.py createsuperuser
```

1. Start the backend server:

```
python manage.py runserver
```

Backend API will run at: `http://127.0.0.1:8000/api/`

Frontend Setup

1. Navigate to the frontend directory:

```
cd ../frontend
```

1. Install Node dependencies:

```
npm install
```

1. Start the frontend server:

```
ng serve
```

Frontend will run at: `http://localhost:4200/`

API Documentation

Method	Endpoint	Description
POST	<code>/api/users/create/</code>	Register a new user
POST	<code>/api/users/login/</code>	Login user (username/email)
GET	<code>/api/cars/</code>	List all cars
GET	<code>/api/cars/<id>/</code>	Retrieve car details
POST	<code>/api/cars/<id>/like/</code>	Toggle like for a car
GET/POST	<code>/api/cars/<id>/comments/</code>	List/Create comments
GET/PUT/DELETE	<code>/api/comments/<id>/</code>	Manage a single comment

Authentication:

- Token-based auth using Django REST Framework Token
- Include token in `Authorization` header for protected endpoints:

```
Authorization: Token <your_token>
```

Frontend Layout Notes

- **Home Page:** Full-width layout, fills viewport height (`min-h-screen`).
- **Other Pages:** Constrained inside a `container` with padding (`px-6 py-12`) to maintain consistent content width.

- **Navbar & Footer:** Navbar is included in `app.component.html`. Footer is implemented in `home.component.html` for full-width effect.

Angular Example for Page Layout:

```
<!-- Full-width for home -->
<app-home></app-home>

<!-- Container for other pages -->
<div class="container mx-auto px-6 py-12">
  <router-outlet></router-outlet>
</div>
```

Usage

1. **Register** a new account via frontend or API.
2. **Login** with username or email.
3. **Browse cars**, like your favorites, and leave comments.
4. **Admin Panel:** Manage cars at `/admin/`.
5. **Authentication:** Token stored in `localStorage` for persistent sessions.

Dependencies

Backend (`requirements.txt`):

```
Django>=5.1
django-rest-framework>=4.14
django-rest-framework-auth-token>=1.4
django-cors-headers>=4.0
```

Frontend (`package.json` **key deps**):

```
{
  "@angular/core": "~20.1.0",
  "rxjs": "~7.8.0",
  "primeng": "^16.0.0",
  "primeicons": "^6.0.0",
  "tailwindcss": "^4.3.0"
}
```

License

This project is licensed under the MIT License.