**Freshie Technical Documentation**

**Project Overview**

**Freshie** is a modern e-commerce platform designed for selling clothing items. It offers a seamless user experience for browsing products, managing shopping carts, and placing orders. Additionally, it includes a robust admin panel powered by Filament for managing inventory, orders, and user accounts.

* **Website**: <https://freshlook.duckdns.org/>
* **GitHub Repository**: <https://github.com/xdkanashi/Freshie>
* **License**: MIT

## Architecture and Technologies

Freshie is built as a monolithic application using the Laravel framework, following the Model-View-Controller (MVC) pattern. It integrates Filament for administrative tasks and Tailwind CSS for styling.

### Backend

* **Laravel**: Version 12.7.2 (PHP framework).
* **PHP**: Version 8.2.28.
* **Livewire**: For dynamic, reactive frontend components.
* **Filament**: Version 3.2, for the admin panel.

### Frontend

* **Tailwind CSS**: Utility-first CSS framework for responsive design.
* **Vite**: Asset bundler for compiling CSS and JavaScript.
* **Blade**: Laravel’s templating engine.

### Database

* **MySQL**: Relational database for storing application data.

### Server

* **Nginx**: Web server for serving the application.
* **PHP-FPM**: Handles PHP requests.

### Tools

* **Composer**: PHP dependency manager.
* **npm**: Frontend dependency manager.
* **Git**: Version control system.

## Features

### User-Facing Features

* **Product Catalog**: Browse clothing items with details (name, price, discount).
* **Shopping Cart**: Add, update, or remove items; view cart totals.
* **Checkout**: Place orders (requires user authentication).
* **User Authentication**: Register, log in, and manage profiles.
* **Responsive Design**: Optimized for all devices.

### Admin Panel (Filament)

* **Dashboard**: Displays site metrics (e.g., site visits).
* **Resource Management**:
  + **Clothes**: Manage product inventory.
  + **Orders**: Track and update order statuses.
  + **Users**: Administer user accounts and roles.
  + **Coupons**: Create and manage discount codes.
  + **Contacts**: Handle customer inquiries.
* **Access Control**: Restricted to users with is\_admin = 1.

## Installation and Setup

### Prerequisites

* PHP >= 8.2
* Composer
* Node.js >= 16
* npm
* MySQL >= 5.7
* Nginx or Apache
* Git

### Setup Instructions

1. **Clone the Repository**:



1. **Install PHP Dependencies:**

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1. **Install Frontend Dependencies**:

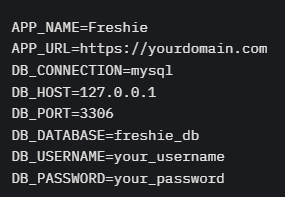
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1. **Configure Environment**:

* Copy the example .env file:



* Update .env with your database credentials:



1. **Generate Application Key**:



1. **Run Migrations**:



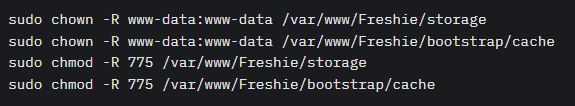
1. **Seed Database (Optional)**:



1. **Build Frontend Assets**:



1. **Set Permissions**:



1. **Configure Web Server** (Nginx Example):



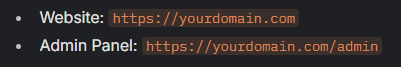
1. Restart Nginx:



1. **Create Admin User**:

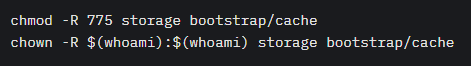


1. **Access the Application:**

****

**Local Environment Setup (After Building Frontend Assets)**

1. **Set File Permissions**:



1. **Start Local Server**:



**Access at http://127.0.0.1:8000.**

1. **Create Admin User**:



1. **Access**:



## Database Schema

The database freshie consists of the following tables:

**cache**:

* **key**: Primary key (varchar, not null).
* **value**: Cache value (mediumtext, not null).
* **expiration**: Expiration timestamp (int, not null).

**cache\_locks**:

* **key**: Primary key (varchar, not null).
* **owner**: Lock owner (varchar, not null).
* **expiration**: Expiration timestamp (int, not null).

**cart**:

* **id:** Primary key (bigint, auto-increment).
* **user\_id:** Foreign key (users.id, on delete cascade).
* **clothe\_id:** Foreign key (clothes.id, on delete cascade).
* **size:** Item size (varchar, not null).
* **quantity:** Item quantity (int, default 1).
* **created\_at, updated\_at:** Timestamps.

**clothes**:

* **id:** Primary key (bigint, auto-increment).
* **name:** Product name (varchar, not null).
* **category:** Product category (varchar, not null).
* **description:** Product description (text, nullable).
* **price:** Price (decimal(8,2), not null).
* **is\_sold\_out:** Sold out flag (tinyint, default 0).
* **pre\_order:** Pre-order flag (tinyint, default 0).
* **discount:** Discount percentage (decimal(5,2), nullable).
* **size:** Available sizes (varchar, nullable).
* **created\_at, updated\_at:** Timestamps.

**clothes\_images**:

* **id:** Primary key (bigint, auto-increment).
* **clothes\_id:** Foreign key (clothes.id, on delete cascade).
* **image:** Image path (varchar, nullable).
* **created\_at, updated\_at:** Timestamps.

**contacts**:

* **id:** Primary key (bigint, auto-increment).
* **name:** Contact name (varchar, not null).
* **phone:** Contact phone (varchar, nullable).
* **subject:** Inquiry subject (varchar, not null).
* **email:** Contact email (varchar, not null).
* **comment:** Message (text, nullable).
* **created\_at, updated\_at:** Timestamps.

**coupons**:

* **id:** Primary key (bigint, auto-increment).
* **coupon\_code:** Unique coupon code (varchar, not null).
* **coupon\_type:** Type (enum: 'percentage', 'fixed').
* **discount\_percentage:** Discount percentage (decimal(5,2), nullable).
* **delivery\_discount\_amount:** Delivery discount (decimal(10,2), nullable).
* **free\_item\_id:** Free item ID (bigint, nullable).
* **is\_active:** Active flag (tinyint, default 1).
* **valid\_from, valid\_until:** Validity dates (date, nullable).
* **min\_order\_amount:** Minimum order amount (decimal(10,2), nullable).
* **usage\_limit:** Usage limit (int, nullable).
* **description:** Coupon description (text, nullable).
* **usage\_count:** Usage count (int, default 0).
* **created\_at, updated\_at:** Timestamps.

**failed\_jobs**:

* **id:** Primary key (bigint, auto-increment).
* **uuid:** Unique identifier (varchar, not null).
* **connection, queue:** Job connection and queue (text, not null).
* **payload, exception:** Job payload and exception (longtext, not null).
* **failed\_at:** Failure timestamp (timestamp, not null).

**jobs**:

* **id:** Primary key (bigint, auto-increment).
* **queue:** Queue name (varchar, not null).
* **payload:** Job payload (longtext, not null).
* **attempts:** Attempt count (tinyint, not null).
* **reserved\_at, available\_at, created\_at:** Timestamps (int, nullable/required).

**job\_batches**:

* **id:** Primary key (varchar, not null).
* **name:** Batch name (varchar, not null).
* **total\_jobs, pending\_jobs, failed\_jobs:** Job counts (int, not null).
* **failed\_job\_ids:** Failed job IDs (longtext, not null).
* **options:** Batch options (mediumtext, nullable).
* **cancelled\_at, created\_at, finished\_at:** Timestamps (int, nullable/required).

**leaderboard**:

* **id:** Primary key (bigint, auto-increment).
* **user\_id:** Foreign key (users.id, unique, on delete cascade).
* **score:** User score (int, not null).
* **created\_at, updated\_at:** Timestamps.

**migrations**:

* **id:** Primary key (int, auto-increment).
* **migration:** Migration name (varchar, not null).
* **batch:** Batch number (int, not null).

**orders**:

* **id:** Primary key (bigint, auto-increment).
* **order\_number:** Unique order number (varchar, not null).
* **customer\_name:** Customer name (varchar, not null).
* **status:** Order status (enum: 'pending', 'processing', 'completed', 'canceled').
* **notes:** Order notes (text, nullable).
* **created\_at, updated\_at:** Timestamps.

**password\_reset\_tokens**:

* **email:** Primary key (varchar, not null).
* **token:** Reset token (varchar, not null).
* **created\_at:** Timestamp (nullable).

**sessions**:

* **id:** Primary key (varchar, not null).
* **user\_id:** Foreign key (users.id, nullable).
* **ip\_address:** User IP (varchar, nullable).
* **user\_agent:** Browser agent (text, nullable).
* **payload:** Session data (longtext, not null).
* **last\_activity:** Last activity timestamp (int, not null).

**users**:

* **id:** Primary key (bigint, auto-increment).
* **username:** Unique username (varchar, not null).
* **email:** Unique email (varchar, not null).
* **password:** Hashed password (varchar, not null).
* **is\_admin:** Admin flag (tinyint, default 0).
* **game\_limit\_enabled:** Game limit flag (tinyint, default 1).
* **last\_game\_played\_at, next\_game\_time:** Game timestamps (timestamp, nullable).
* **game\_interval\_hours:** Game interval (int, default 24).
* **remember\_token:** Remember token (varchar, nullable).
* **created\_at, updated\_at:** Timestamps.

**File Structure**

Freshie/

├── app/

│ ├── Filament/

│ │ ├── Resources/

│ │ │ ├── ClotheResource.php

│ │ │ ├── ContactResource.php

│ │ │ ├── CouponResource.php

│ │ │ ├── OrderResource.php

│ │ │ ├── UserResource.php

│ │ ├── Widgets/

│ │ │ ├── SiteVisitsWidget.php

│ ├── Http/

│ │ ├── Controllers/

│ │ ├── Middleware/

│ │ │ ├── CheckIfAdmin.php

│ ├── Models/

│ │ ├── User.php

│ │ ├── Clothe.php

│ │ ├── Cart.php

│ │ ├── Contact.php

│ │ ├── Coupon.php

│ │ ├── Order.php

├── database/

│ ├── migrations/

│ ├── seeders/

│ │ ├── DatabaseSeeder.php

│ │ ├── UserSeeder.php

│ │ ├── ClotheSeeder.php

│ │ ├── CartSeeder.php

│ │ ├── ContactSeeder.php

│ │ ├── CouponSeeder.php

│ │ ├── OrderSeeder.php

├── public/

│ ├── build/

│ │ ├── assets/

│ │ ├── manifest.json

├── resources/

│ ├── css/

│ │ ├── filament/admin/theme.css

│ ├── views/

│ │ ├── layouts/

│ │ │ ├── app.blade.php

│ │ ├── welcome.blade.php

├── routes/

│ ├── web.php

├── .env.example

├── composer.json

├── package.json

├── vite.config.js

├── README.md

## Usage

### User Interface

1. **Browse Products**: View clothing items on the homepage.
2. **Add to Cart**: Select size/quantity and add to cart.
3. **Checkout**: Log in, review cart, and place orders.
4. **Contact Support**: Submit inquiries via the contact form.
5. **Leaderboard**: View user rankings based on scores.

### Admin Panel

1. **Access**: Log in at /admin with admin credentials.
2. **Manage Resources**:
   * **Clothes**: Add/edit products.
   * **Orders**: Update order statuses.
   * **Users**: Manage accounts.
   * **Coupons**: Create discount codes.
   * **Contacts**: Review inquiries.
3. **Dashboard**: View site metrics.

## Contribution Guidelines

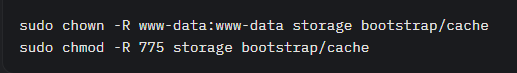
1. Fork the repository.
2. Create a branch: git checkout -b feature/your-feature.
3. Push: git push origin feature/your-feature.
4. Open a pull request.

**Standards**:

* Follow PSR-12 coding standards.
* Update documentation as needed.
* Add tests for new features.

## Troubleshooting

* **Error 500**: Check storage/logs/laravel.log. Fix permissions:



**Filament Access Issues**: Ensure is\_admin = 1 for the user.

* **Styles Missing**: Rebuild assets:



**Database Errors**: Run migrations:



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