**Basic Endpoints**

**Trend Endpoints:**

GET /api/trends: Retrieve a list of all fashion trends.

GET /api/trends/{id}: Retrieve details of a specific fashion trend by its ID.

POST /api/trends: Create a new fashion trend.

PUT /api/trends/{id}: Update an existing fashion trend by its ID.

DELETE /api/trends/{id}: Delete a fashion trend by its ID.

**Designer Endpoints:**

GET /api/designers: Retrieve a list of all fashion designers.

GET /api/designers/{id}: Retrieve details of a specific fashion designer by their ID.

POST /api/designers: Create a new fashion designer profile.

PUT /api/designers/{id}: Update an existing fashion designer profile by their ID.

DELETE /api/designers/{id}: Delete a fashion designer profile by their ID.

**User Endpoints:**

POST /api/register: Register a new user account.

POST /api/login: Authenticate a user and generate an access token.

GET /api/users: Retrieve a list of all users (admin-only access).

GET /api/users/{id}: Retrieve details of a specific user (admin-only access).

PUT /api/users/{id}: Update user details (admin-only access).

DELETE /api/users/{id}: Delete a user account (admin-only access).

**Trend Analysis Endpoints:**

GET /api/trends/{id}/analysis: Retrieve historical trend analysis data for a specific trend.

POST /api/trends/{id}/analysis: Create new trend analysis data for a specific trend.

PUT /api/trends/{id}/analysis/{analysisId}: Update trend analysis data for a specific trend.

DELETE /api/trends/{id}/analysis/{analysisId}: Delete trend analysis data for a specific trend.

**Category Endpoints:**

GET /api/categories: Retrieve a list of all fashion trend categories.

GET /api/categories/{id}: Retrieve details of a specific fashion trend category by its ID.

POST /api/categories: Create a new fashion trend category. (Admin only)

PUT /api/categories/{id}: Update an existing fashion trend category by its ID. (Admin only)

DELETE /api/categories/{id}: Delete a fashion trend category by its ID. (Admin only)

**Product Endpoints:**

GET /api/products: Retrieve a list of all fashion products.

GET /api/products/{id}: Retrieve details of a specific fashion product by its ID.

POST /api/products: Create a new fashion product. - Fashion Companies and Admin only

PUT /api/products/{id}: Update an existing fashion product by its ID. - Fashion Companies and Admin only

DELETE /api/products/{id}: Delete a fashion product by its ID. - Fashion Companies and Admin only

**Complex Endpoints**

**Top Trending Trends Endpoint:**

GET /trends/sort/popularity?order={order}: Returns a list of the most popular or trending fashion trends based on user likes or comments. This can be determined by tracking user interactions.

**Search Trends by Keyword Endpoint:**

GET /trends/search?keyword={keyword}: Enables users to search for fashion trends containing specific keywords or terms in their titles or descriptions.

**Trend Statistics Endpoint:**

GET /trends/statistics: Provides statistical data about trends, such as the total number of trends, trends per season, and user engagement metrics.

**Trend Sorting by Season Endpoint:**

GET /trends/sort/season?order={order}: Allows users to sort fashion trends by the season or collection they belong to, in ascending or descending order.

**Get Products by Trend with Sorting Endpoint:**

GET /products/trend/{id}?sort={criteria}&order={order}Retrieve a list of fashion products associated with a specific fashion trend by its ID. Users can also sort the products based on criteria such as name, price, or designer in either ascending or descending order. This allows for more flexibility in product retrieval.