**E-COMMERCE API - ENDPOINTS PLANNING**

**1-- Users**

For user management, including registration, login, profile updates, and deletion.

* **Register a User**
  + **POST /users/register** - Register a new user.
* **Login**
  + **POST /users/login** - Authenticate a user and return a token.
* **Get User Information**
  + **GET /users/:userId** - Retrieve user details.
* **Update User Information**
  + **PUT /users/:userId** - Update user details.
* **Change Password**
  + **PUT /users/password/:userId –** Change user’s password
* **Delete a User**
  + **DELETE /users/:userId** - Delete a user.
* **Logout a User**
  + **DELETE /users/logout/:userId** – User logout.

**2-- User Addresses**

Manage user addresses.

* **List All Addresses for a User**
  + **GET /addresses/user/:userId -** Retrieve all addresses of a user.
* **Get a Single Address**
  + **GET /addresses/:addressId -** Retrieve details of a specific address.
* **Create an Address**
  + **POST /addresses -** Add a new address for a user.
* **Update an Address**
  + **PUT /addresses/:addressId** - Update a specific address.
* **Delete an Address**
  + **DELETE /addresses/:addressId** - Remove an address.

**3-- Product Categories**

Manage product categories.

* **List All Categories**
  + **GET /categories -** Retrieve all product categories.
* **Get a Single Category**
  + **GET /categories/:categoryId -** Retrieve details of a specific category.
* **Create a Category**
  + **POST /categories -** Add a new category.
* **Update a Category**
  + **PUT /categories/:categoryId** - Update a specific category.
* **Delete a Category**
  + **DELETE /categories/:categoryId** - Remove a category.

**4-- Products**

Endpoints to browse products, view single product details, create new products, update and delete existing products.

* **List All Products**
  + **GET /products** - Retrieve all products.
* **Get a Single Product**
  + **GET /products/:productId** - Retrieve details of a specific product.
* **Get Products by Category**
  + **GET /products/category/:categoryId** - Retrieve details of products by category
* **Create a Product**
  + **POST /products** - Add a new product.
* **Update a Product**
  + **PUT /products/:productId** - Update a specific product.
* **Delete a Product**
  + **DELETE /products/:productId** - Remove a product.

**5-- Carts**

Manage shopping cart contents for logged-in users.

* **View Cart**
  + **GET /carts/:userId** - Retrieve a user’s cart.
* **Add Product to Cart**
  + **POST /carts/:userId/products** - Add a product to the cart.
* **Update Product Quantity in Cart**
  + **PUT /carts/:userId/products/:productId** - Update the quantity of a product in the cart.
* **Remove Product from Cart**
  + **DELETE /carts/:userId/products/:productId** - Remove a product from the cart.
* **Clear Cart**
  + **DELETE /carts/:userId/clear** - Remove all products from the cart.

**6-- Orders**

Endpoints for managing orders from cart checkout to order tracking.

* **Create an Order**
  + **POST /orders/:userId** - Create an order from the cart.
* **Get All Orders for a User**
  + **GET /orders/:userId** - Retrieve all orders made by a user.
* **Get Specific Order**
  + **GET /orders/:userId/:orderId** - Retrieve details of a specific order.
* **Update Order Status**
  + **PUT /orders/:orderId/status** - Update the status of an order.
* **Cancel an Order**
  + **DELETE /orders/:userId/:orderId** - Cancel an existing order.

**7-- OAuth Authentication (Google and Facebook)**

Integrate Google and Facebook OAuth for user authentication.

* **Google Oauth**
  + **GET /auth/google** - Redirect to Google for authentication.
  + **GET /auth/google/callback** - Google OAuth callback URL.
* **Facebook OAuth**
  + **GET /auth/facebook** - Redirect to Facebook for authentication.
  + **GET /auth/facebook/callback** - Facebook OAuth callback URL.

**8—Tokens**

JWT management

* **Refresh token**
  + **POST /token – refresh access token**