

# E-Commerce API Documentation

This API provides endpoints to manage products for a simple e-commerce application.

## Base URL

The base URL for all API endpoints is: `https://your-api-url.com`

## Authentication

The API uses JWT (JSON Web Tokens) for authentication. To authenticate requests, include the JWT token in the `Authorization` header as follows:

```
Authorization: Bearer <token>
```

## Endpoints

### Register a User

- URL: `/api/register`
- Method: `POST`
- Description: Register a new user.
- Request Body:
  - `username` (string, required): The username for the user.
  - `password` (string, required): The password for the user.
- Response:
  - `message` (string): Success message.
- Example:

POST /api/register

Body:

```
{
  "username": "user123",
  "password": "password123"
}
```

## User Login

- URL: `/api/login`
- Method: `POST`
- Description: Log in a user and receive a JWT token for authentication.
- Request Body:
  - `username` (string, required): The username for the user.
  - `password` (string, required): The password for the user.
- Response:
  - `token` (string): JWT token for authentication.
- Example:

POST /api/login

Body:

```
{
  "username": "user123",
  "password": "password123"
}
```

## Get All Products

- URL: `/api/products`
- Method: `GET`
- Description: Retrieve all products.
- Response:
  - Array of product objects.
- Example:

GET /api/products

## Get Product by ID

- URL: `/api/products/:id`
- Method: GET
- Description: Retrieve a product by its ID.
- Response:
  - Product object.
- Example:

GET /api/products/12345

## Create a Product (Admin level)

- URL: `/api/products`
- Method: POST
- Description: Create a new product.
- Request Body:
  - `name` (string, required): The name of the product.
  - `price` (number, required): The price of the product.
- Response:
  - Created product object.
- Example:

POST /api/products

Body:

```
{  
  "name": "Example Product",  
  "price": 9.99  
}
```

## Update a Product(Admin level)

- URL: `/api/products/:id`
- Method: `PUT`
- Description: Update an existing product by its ID.
- Request Body:
  - `name` (string, required): The updated name of the product.
  - `price` (number, required): The updated price of the product.
- Response:
  - Updated product object.
- Example:

```
PUT /api/products/12345
Body:
{
  "name": "Updated Product",
  "price": 14.99
}
```

## Delete a Product(Admin level)

- URL: `/api/products/:id`
- Method: `DELETE`
- Description: Delete a product by its ID.
- Response:
  - No content.
- Example:

```
DELETE /api/products/12345
```