Code Quest API

API documentation for the Code Quest project

APIs

GET /api/brands/

List all brands

Returns a list of all product brands

Responses

200

array

POST /api/brands/

Create a new brand

Creates a new product brand

Request Body

Brand

Responses

201

Brand

GET /api/brands/{id}/

Get a specific brand

Parameters

Name	Type	Required	Description
id	string	True	

Responses

200

[Brand](#)

PATCH /api/brands/{id}/

Update a brand

Parameters

Name	Type	Required	Description
id	string	True	

Request Body

[PatchedBrand](#)

Responses

200

[Brand](#)

DELETE /api/brands/{id}/

Delete a brand

Parameters

Name	Type	Required	Description
id	string	True	

Responses

204

No response body

GET /api/keywords/

List all keywords

Responses

200

array

POST /api/keywords/

Create a new keyword

Request Body

Keyword

Responses

201

Keyword

GET /api/keywords/{id}/

Get a specific keyword

Parameters

Name	Type	Required	Description
id	string	True	

Responses

200

Keyword

PATCH /api/keywords/{id}/

Update a keyword

Parameters

Name	Type	Required	Description
id	string	True	

Request Body

PatchedKeyword

Responses

200

Keyword

DELETE /api/keywords/{id}/

Delete a keyword

Parameters

Name	Type	Required	Description
id	string	True	

Responses

204

No response body

GET /api/products/

List all products

Returns a list of all products with associated categories and keywords

Responses

200

array

Examples

```json
[
  {
    "id": "uuid-here",
    "arabic_name": "\u0645\u0646\u062a\u062c",
    "english_name": "Product",
    "nutrition_facts": {
      "calories": 200,
      "fat": "10g",
      "protein": "5g"
    },
    "brand": {
      "id": "uuid-here",
      "arabic_name": "\u0639\u0644\u0627\u0645\u0629 \u062a\u062c\u0627\u0631\u064a\u0629",
      "english_name": "Brand"
    },
    "keywords": [
      {
        "id": "uuid-here",
        "arabic_name": "\u0643\u0644\u0645\u0629 \u0645\u0641\u062a\u0627\u062d\u064a\u0629",
        "english_name": "Keyword"
      }
    ],
    "created_at": "2023-10-01T00:00:00Z",
    "updated_at": "2023-10-01T00:00:00Z"
  }
]
```

POST /api/products/

Create a new product

Creates a new product with the provided data

Request Body

Product

Examples

```json
{
  "arabic_name": "\u0645\u0646\u062a\u062c",
  "english_name": "Product",
  "nutrition_facts": {
    "calories": 200,
    "fat": "10g",
    "protein": "5g"
  },
  "brand_id": "uuid-here",
  "keyword_ids": [
    "uuid-here"
  ]
}
```

Responses

201

Product

Examples

```json
{
  "id": "uuid-here",
  "arabic_name": "\u0645\u0646\u062a\u062c",
  "english_name": "Product",
  "nutrition_facts": {
    "calories": 200,
    "fat": "10g",
    "protein": "5g"
  },
  "brand": {
    "id": "uuid-here",
    "arabic_name": "\u0639\u0644\u0627\u0645\u0629 \u062a\u062c\u0627\u0631\u064a\u0629",
    "english_name": "Brand"
  },
  "keywords": [
    {
      "id": "uuid-here",
      "arabic_name": "\u0643\u0644\u0645\u0629 \u0645\u0641\u062a\u0627\u062d\u064a\u0629",
      "english_name": "Keyword"
    }
```

```
    ],
    "created_at": "2023-10-01T00:00:00Z",
    "updated_at": "2023-10-01T00:00:00Z"
  }
```

GET /api/products/{id}/

Get a specific product

Returns details of a specific product by ID

Parameters

Name	Type	Required	Description
id	string	True	

Responses

200

[Product](#)

Examples

```
  {
    "id": "uuid-here",
    "arabic_name": "\u0645\u0646\u062a\u062c",
    "english_name": "Product",
    "nutrition_facts": {
      "calories": 200,
      "fat": "10g",
      "protein": "5g"
    },
    "brand": {
      "id": "uuid-here",
      "arabic_name": "\u0639\u0644\u0627\u0645\u0629 \u062a\u062c\u0627\u0631\u064a\u0629",
      "english_name": "Brand"
    },
    "keywords": [
      {
        "id": "uuid-here",
        "arabic_name": "\u0643\u0644\u0645\u0629 \u0645\u0641\u062a\u0627\u062d\u064a\u0629",
        "english_name": "Keyword"
      }
```

```
    ],
    "created_at": "2023-10-01T00:00:00Z",
    "updated_at": "2023-10-01T00:00:00Z"
  }
```

PATCH /api/products/{id}/

Update a product

Partially updates a product with the provided data, using optimistic locking

Parameters

Name	Type	Required	Description
id	string	True	

Request Body

PatchedProduct

Examples

```
  {
    "arabic_name": "\u0645\u0646\u062a\u062c",
    "english_name": "Product",
    "nutrition_facts": {
      "calories": 200,
      "fat": "10g",
      "protein": "5g"
    },
    "brand_id": "uuid-here",
    "keyword_ids": [
      "uuid-here"
    ]
  }
```

Responses

200

Product

Examples

```json
{
  "id": "uuid-here",
  "arabic_name": "\u0645\u0646\u062a\u062c",
  "english_name": "Product",
  "nutrition_facts": {
    "calories": 200,
    "fat": "10g",
    "protein": "5g"
  },
  "brand": {
    "id": "uuid-here",
    "arabic_name": "\u0639\u0644\u0627\u0645\u0629 \u062a\u062c\u0627\u0631\u064a\u0629",
    "english_name": "Brand"
  },
  "keywords": [
    {
      "id": "uuid-here",
      "arabic_name": "\u0643\u0644\u0645\u0629 \u0645\u0641\u062a\u0627\u062d\u064a\u0629",
      "english_name": "Keyword"
    }
  ],
  "created_at": "2023-10-01T00:00:00Z",
  "updated_at": "2023-10-01T00:00:00Z"
}
```

DELETE /api/products/{id}/

Delete a product

Deletes a specific product by ID

Parameters

Name	Type	Required	Description
id	string	True	

Responses

204

No response body

GET /api/search/

Search for products

Searches products by query string, splitting into words and searching in Arabic or English fields based on language detection. Results are cached in Redis.

Parameters

Name	Type	Required	Description
page	integer		Page number for pagination. Default is 1.
page_size	integer		Number of results per page. Default is 20.
query	string	True	Search query string. Can contain multiple words to search for.
similarity_threshold	number		Threshold for similarity matching. Default is 0.3.

Responses

200

array

Examples

```
[
  {
    "id": "uuid-here",
    "arabic_name": "\u0645\u0646\u062a\u062c",
    "english_name": "Product",
    "nutrition_facts": {
      "calories": 200,
      "fat": "10g",
      "protein": "5g"
    },
    "brand": {
      "id": "uuid-here",
      "arabic_name": "\u0639\u0644\u0627\u0645\u0629 \u062a\u062c\u0627\u0631\u064a\u0629",
      "english_name": "Brand"
    },
    "keywords": [
      {
        "id": "uuid-here",
```

```
      "arabic_name": "\u0643\u0644\u0645\u0629 \u0645\u0641\u062a\u0627\u062d\u064a\u0629",
      "english_name": "Keyword"
    }
  ],
  "created_at": "2023-10-01T00:00:00Z",
  "updated_at": "2023-10-01T00:00:00Z"
}
]
```

400

object

Field	Type	Description
error	string	

404

object

Field	Type	Description
error	string	

Components

Brand

Serializer for Brand model

Field	Type	Description
id	string	
arabic_name	string	
english_name	string	
created_at	string	
updated_at	string	

Keyword

Serializer for Keyword model

Field	Type	Description
id	string	
arabic_name	string	
english_name	string	
created_at	string	
updated_at	string	

PatchedBrand

Serializer for Brand model

Field	Type	Description
id	string	
arabic_name	string	
english_name	string	
created_at	string	
updated_at	string	

PatchedKeyword

Serializer for Keyword model

Field	Type	Description
id	string	
arabic_name	string	
english_name	string	
created_at	string	

Field	Type	Description
updated_at	string	

PatchedProduct

Base serializer class.

Field	Type	Description
id	string	
arabic_name	string	
english_name	string	
nutrition_facts		
brand		
brand_id	string	
keywords	array	
keyword_ids	array	
created_at	string	
updated_at	string	

Product

Base serializer class.

Field	Type	Description
id	string	
arabic_name	string	
english_name	string	
nutrition_facts		
brand		
brand_id	string	

Field	Type	Description
keywords	array	
keyword_ids	array	
created_at	string	
updated_at	string	