

1. Signup Endpoint

Endpoint: POST /api/auth/signup

Description: Registers a new user to the application, providing them with access credentials.

Payload:

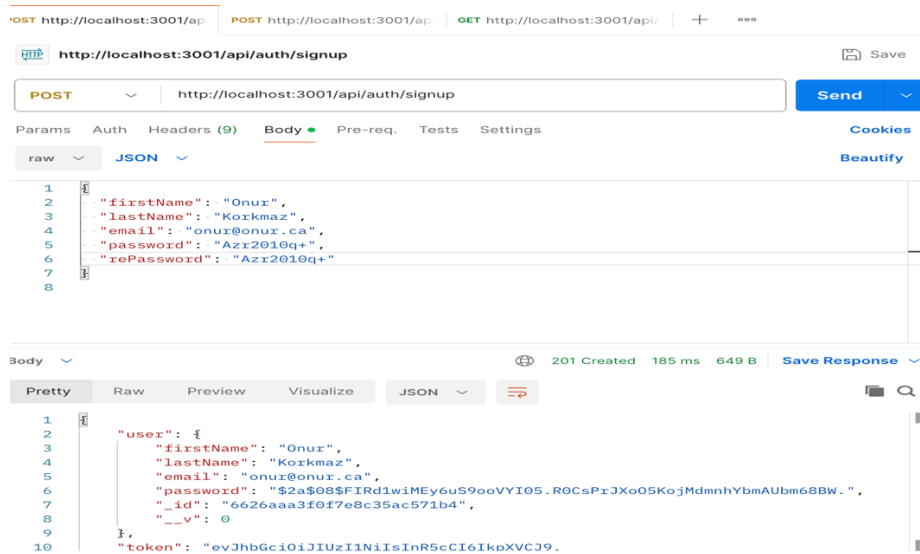
- **firstName** (required): User's first name.
- **lastName** (required): User's last name.
- **email** (required): User's email, which will be used as the username.
- **password** (required): Account password.
- **rePassword** (required): Repeated password for verification.

Success Response:

- Status Code: 201
- Returns the user's ID, email, and a JWT token for authentication.

Error Response:

- Status Code: 400
- Returns an error message indicating what went wrong (e.g., "Passwords do not match").



```
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node server.js`
(node:7656) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
(Use `node --trace-warnings ...` to show where the warning was created)
(node:7656) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
Server running on port 3001
Connected to DB
Signup request: Onur Korkmaz onur@onur.ca
User created: new ObjectId('6626aaa3f0f7e8c35ac571b4')
```

2. Login Endpoint

Endpoint: POST /api/auth/login

Description: Authenticates an existing user by their email and password.

Payload:

- **email** (required): User's email.
- **password** (required): User's password.

Success Response:

- **Status Code:** 200
- **Returns a JWT token for subsequent authentication-required requests.**

Error Response:

- **Status Code:** 401
- **Returns an error message indicating invalid credentials.**

The screenshot shows a REST client interface with the following details:

- Request:**
 - Method: POST
 - URL: http://localhost:3001/api/auth/signup
 - Body (JSON):


```
{
    "firstName": "Onur",
    "lastName": "Korkmaz",
    "email": "onur@onur.ca",
    "password": "Azr2010q+",
    "rePassword": "Azr2010q+"
  }
```
- Response:**
 - Status: 201 Created
 - Time: 185 ms
 - Size: 649 B
 - Body (JSON):


```
{
    "user": {
      "firstName": "Onur",
      "lastName": "Korkmaz",
      "email": "onur@onur.ca",
      "password": "$2a$08$FIRd1wiMEy6uS9ooVYI05.R0CsPrJXo05KojMdmnhYbmAUbm68BW.",
      "_id": "6626aaa3f0f7e8c35ac571b4",
      "__v": 0
    },
    "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9."
  }
```

```
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node server.js`
(node:7656) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
(Use `node --trace-warnings ...` to show where the warning was created)
(node:7656) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
Server running on port 3001
Connected to DB
Signup request: Onur Korkmaz onur@onur.ca
User created: new ObjectId('6626aaa3f0f7e8c35ac571b4')
```

3. Add Product Endpoint

Endpoint: POST /api/products/add

Description: Allows authenticated users to add a new product to the database.

Payload:

- **name** (required): Name of the product.
- **price** (required): Price of the product.
- **description** (required): A brief description of the product.

Success Response:

- Status Code: 201
- Returns details of the newly added product.

Error Response:

- Status Code: 400
- Returns an error message indicating what went wrong.

The screenshot shows a REST client interface with the following details:

- URL:** http://localhost:3001/api/products/add
- Method:** POST
- Body (raw):**

```
{
  "name": "RAM",
  "price": 350.50,
  "description": "16gb."
}
```
- Response (Pretty):**

```
{
  "name": "RAM",
  "price": 350.5,
  "description": "16gb.",
  "_id": "6626adc5e0a67c230bf5ce9b",
  "__v": 0
}
```
- Status:** 201 Created
- Time:** 148 ms
- Size:** 363 B

```
(node:10273) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
(Use `node --trace-warnings ...` to show where the warning was created)
(node:10273) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
Server running on port 3001
Connected to DB
[nodememon] restarting due to changes...
[nodememon] starting `node server.js`
(node:10312) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
(Use `node --trace-warnings ...` to show where the warning was created)
(node:10312) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
Server running on port 3001
Connected to DB
Adding Product ....
New product added: {
  name: 'RAM',
  price: 350.5,
  description: '16gb.',
  _id: new ObjectId('6626adc5e0a67c230bf5ce9b'),
  __v: 0
}
```

4. Get All Products Endpoint

Endpoint: GET /api/products/getall

Description: Retrieves a list of all products available in the database, accessible only to authenticated users.

Success Response:

- *Status Code: 200*
- *Returns a list of all products.*

Error Response:

- *Status Code: 500*
- *Returns an error message indicating an issue with the server.*

The screenshot displays the Swagger UI for a REST API. The top bar shows the URL `http://localhost:3001/api/products/getall`. The 'Headers' tab is selected, showing an 'Authorization' header with a Bearer token. The 'Body' tab is also visible, showing a JSON array of product objects. The status bar at the bottom indicates a 200 OK response with 108 ms latency and 553 B body size.

URL: `http://localhost:3001/api/products/getall`

Headers:

Key	Value
Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6Ikp...

Body:

```
[
  {
    "_id": "6625b29b8a06f2de96317dff",
    "name": "asdasd",
    "price": 99,
    "description": "222222",
    "__v": 0
  },
  {
    "_id": "6625c957ee7e02aea45888fc",
    "name": "safa",
    "price": 231,
    "description": "2asdasd",
    "__v": 0
  },
  {
    "_id": "6625d725b4a15500236fc2a4fc",
    "name": "asdasd",
    "price": 100,
    "description": "222222",
    "__v": 0
  }
]
```

Status: 200 OK, 108 ms, 553 B

```

[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting 'node server.js'
(node:9515) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser has no effect since Node.js Driver version 4
.0.0 and will be removed in the next major version
(Use 'node --trace-warnings ...' to show where the warning was created)
(node:9515) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect since Node.js Driver ver
sion 4.0.0 and will be removed in the next major version
Server running on port 3001
Connected to DB
Fetching Data .....
[
  {
    _id: new ObjectId('6625b29b8a06f2de96317dff'),
    name: 'asdasd',
    price: 99,
    description: '222222',
    __v: 0
  },
  {
    _id: new ObjectId('6625c957ee7e02aea45888fc'),
    name: 'safo',
    price: 231,
    description: '2asdasd',
    __v: 0
  },
  {
    _id: new ObjectId('6625d785b4a4500836fa8afa'),
    name: 'test',
    price: 99999,
    description: 'asdasdasd',
    __v: 0
  }
]

```

5. Update Product Endpoint

Endpoint: PUT /api/products/:productId

Description: Allows authenticated users to update details of an existing product.

Parameters:

- **productId** (required): The ID of the product to update.

Payload:

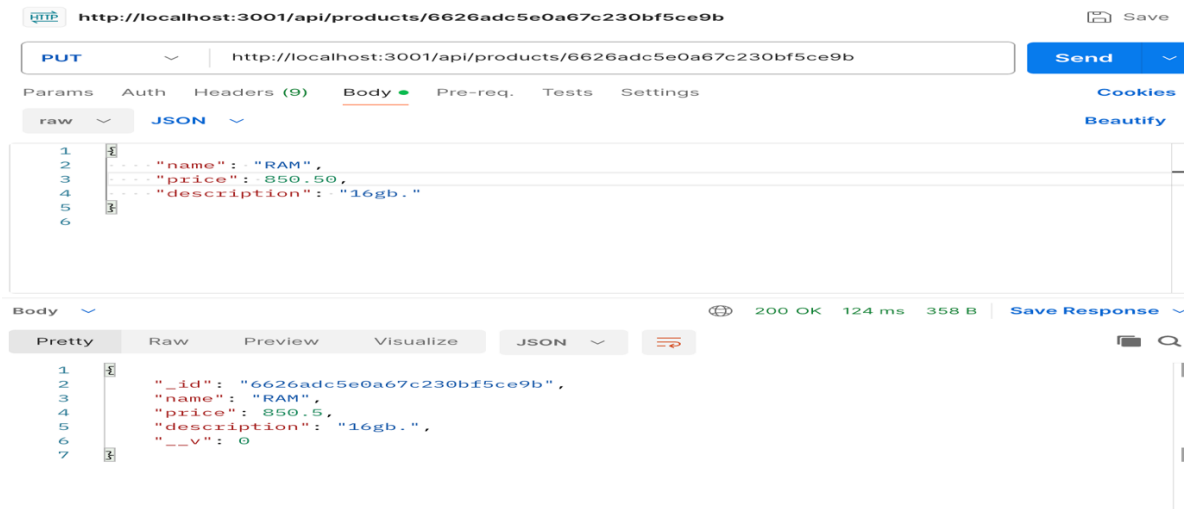
- **name:** New name of the product (optional).
- **price:** New price of the product (optional).
- **description:** New description of the product (optional).

Success Response:

- Status Code: 200
- Returns updated details of the product.

Error Response:

- Status Code: 404
- Returns an error message if the product is not found.



```
(node:10273) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
Server running on port 3001
Connected to DB
[nodemon] restarting due to changes...
[nodemon] starting node server.js
(node:10312) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
(Use `node --trace-warnings ...` to show where the warning was created)
(node:10312) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
Server running on port 3001
Connected to DB
Adding Product ....
New product added: {
  name: 'RAM',
  price: 350.5,
  description: '16gb.',
  _id: new ObjectId('6626adc5e0a67c230bf5ce9b'),
  __v: 0
}
Updating .....
Product updated: {
  _id: new ObjectId('6626adc5e0a67c230bf5ce9b'),
  name: 'RAM',
  price: 850.5,
  description: '16gb.',
  __v: 0
}
```

6. Delete Product Endpoint

Endpoint: DELETE /api/products/:productId

Description: Allows authenticated users to delete a product from the database.

Parameters:

- **productId** (required): The ID of the product to delete.

Success Response:

- Status Code: 200
- Returns a confirmation message of deletion.

Error Response:

- Status Code: 404
- Returns an error message if the product is not found.

The screenshot shows a REST client interface with the following details:

- URL:** `http://localhost:3001/api/products/6626adc5e0a67c230bf5ce9b`
- Method:** `DELETE`
- Body (raw):**

```

1 {
2   "name": "RAM",
3   "price": 850.50,
4   "description": "16gb."
5 }
6

```
- Response (JSON):**

```

1 {
2   "message": "Product deleted successfully"
3 }

```
- Status:** 200 OK, 132 ms, 309 B

```

TERMINAL
node - backend + v [] [] ...
oz@Onurs-MacBook-Pro backend % npm start

> backend@1.0.0 start
> nodemon server.js

[nodemon] 3.1.0
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node server.js`
(node:11047) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
(Use `node --trace-warnings ...` to show where the warning was created)
(node:11047) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
Server running on port 3001
Connected to DB
Deleting .....
Product deleted: 6626adc5e0a67c230bf5ce9b

```

Testing Authorization And Authentication

HTTP

http://localhost:3001/api/products/add

Save

POST

http://localhost:3001/api/products/add

Send

ParamsAuthHeaders (9)Body ●Pre-req. Tests Settings

rawJSON

```
1 {
2   ... "name": "Storage",
3   ... "price": 822250.50,
4   ... "description": "16gb."
5 }
6
```

Body

401 Unauthorized5 ms306 BSave Response

PrettyRawPreviewVisualizeJSON

```
1 {
2   "error": "No token provided"
3 }
```

HTTP

http://localhost:3001/api/products/getall

Save

GET

http://localhost:3001/api/products/getall

Send

ParamsAuthHeaders (9)Body ●Pre-req. Tests Settings

Headers8 hidden

	Key	Value	Bulk Edit
<input checked="" type="checkbox"/>	Authorization		
	Key	Value	

Body

401 Unauthorized3 ms306 BSave Response

PrettyRawPreviewVisualizeJSON

```
1 {
2   "error": "No token provided"
3 }
```


HTTP

http://localhost:3001/api/products/6626adc5e0a67c230bf5ce9b

Save

DELETE

http://localhost:3001/api/products/6626adc5e0a67c230bf5ce9b

Send

ParamsAuthHeaders (9)Body ●Pre-req.TestsSettingsCookies

Headers

8 hidden

	Key	Value	Bulk Edit
<input checked="" type="checkbox"/>	Authorization		
	Key	Value	

Body

401 Unauthorized7 ms306 BSave Response

PrettyRawPreviewVisualizeJSON

1

2

3

"error": "No token provided"

HTTP

http://localhost:3001/api/products/66259597436aa661ea196087

Save

PUT

http://localhost:3001/api/products/66259597436aa661ea196087

Send

ParamsAuthHeaders (9)Body ●Pre-req.TestsSettingsCookies

rawJSON

1

2

3

4

5

6

```
    "name": "Storage",
    "price": 822250.50,
    "description": "16gb."
```

Body

401 Unauthorized5 ms306 BSave Response

PrettyRawPreviewVisualizeJSON

1

2

3

"error": "No token provided"