**API Documentation: TODO Application**

Visual Studio 2022, .Net 8.0 and SSMS for database structure are used.

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1. **Create a new TODO item**

**Method: ‘**POST**’**

**URL:** /api/ToDo

**Description:** A new item is being saved in the database.

**Request**

|  |  |
| --- | --- |
| Parameter | Values |
| title | string (Required) |
| description | string (Required) |
| isCompleted | boolean |
| createdBy | string |

**Response**

1. When the TODO item is added successfully

**A black rectangle with a light blue background

Description automatically generated**

1. When title or description is not entered

**A black and white rectangular object

Description automatically generated**

1. When a duplicate TODO item is entered

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1. **Retrieve all TODO items**

**Method: ‘**GET**’**

**URL:** /api/ToDo

**Description:** All todo items are being retrieved.

**Request**

No parameters

**Response**

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1. **Retrieve a single TODO item by its ID**

**Method: ‘**GET**’**

**URL:** /api/ToDo/{id}

**Description:** All todo items are being retrieved.

**Request**

|  |  |
| --- | --- |
| Parameter | Values |
| id | int |

**Response**

1. When id = 2

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1. When id = 0

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1. **Update a TODO item by its ID**

**Method: ‘**PUT**’**

**URL:** /api/ToDo/{id}

**Description:** An existing record is being updated by its ID.

**Request**

|  |  |
| --- | --- |
| Parameter | Values |
| id | int |
| title | string (Required) |
| description | string (Required) |
| isCompleted | boolean |
| createdBy | string |

**Body:** {

"id": 1,

"title": "Assessment",

"description": "Do the assessment of master trust.",

"isCompleted": true,

"createdBy": "Tanuj"

}

**Response**

1. When details are not duplicateA screenshot of a computer program

   Description automatically generated

1. When details are duplicate

A screenshot of a computer

Description automatically generated

1. **Delete a TODO item by its ID**

**Method: ‘**DELETE**’**

**URL:** /api/ToDo/{id}

**Description:** An existing record is being updated by its ID.

**Request**

|  |  |
| --- | --- |
| Parameter | Values |
| id | int |

**Response**

1. When a record for the entered ID exists

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1. When a record for the entered ID does not exist

A screen shot of a computer

Description automatically generated

**Optional Requirements**

1. **Pagination**

Total Records: 06

**Method: ‘**GET**’**

**URL:** /api/ToDo/{pageNum}/{pageSize}

**Description:** Get records via pagination. Here, pagination is managed by stored procedure.

1. When pageNum = 1 and pageSize = 3

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1. When pageNum = 2 and pageSize = 3

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Description automatically generated