TodoListManagement API

**Introduction**

The objective of this document is to present TodoListManagement API specification including methods, URLs, request/response body formats, etc.

**Resources**

|  |  |  |  |
| --- | --- | --- | --- |
| **Title** | **Functionality** | **Verb** | **Resource** |
| TodoListManagement API – Create List | Create a Todo List | POST | /list |
| TodoListManagement API – Update List | Update a Todo List | PATCH / POST | /list/{listId} |
| TodoListManagement API – Delete List | Delete a Todo List | DELETE | /list/{listId} |
| TodoListManagement API – Create Item | Create a Todo item | POST | /item |
| TodoListManagement API – Update Item | Update a Todo item | PATCH / POST | /item/{itemId} |
| TodoListManagement API – Delete Item | Delete a Todo item | DELETE | /item/{itemId} |
| TodoListManagement API – Get List | Get Todo List and item under a list | GET | /list |

**TodoListManagement API – Create List**

Create a Todo List

|  |  |
| --- | --- |
| **Base Path** | /TodoListManagement/v1.0.0/ |
| **Verb** | POST |
| **Resource** | /list |

***Request JSON***

|  |
| --- |
| POST  http://xyz.com/TodoListManagement/v1.0.0/list  Content-Type: application/json  {  "category": "Work",  "description": "MyworkList"  } |

***Response JSON***

|  |
| --- |
| HTTP/1.1 201 Created  Content-Type: application/json  {  "listId" : 1  } |

**TodoListManagement API – Update List**

Update a Todo List

|  |  |
| --- | --- |
| **Base Path** | /TodoListManagement/v1.0.0/ |
| **Verb** | PATCH / POST |
| **Resource** | /list/{listId} |

***Request JSON***

|  |
| --- |
| POST  http://xyz.com/TodoListManagement/v1.0.0/list/1  Content-Type: application/json  {  "category": "Work",  "description": "MyNewworkList"  } |

***Response***

|  |
| --- |
| HTTP/1.1 200 OK |

***Exception***

|  |
| --- |
| HTTP/1.1 404 Not Found |

**TodoListManagement API – Delete List**

Delete a Todo List. This will also delete all the items under this list

|  |  |
| --- | --- |
| **Base Path** | /TodoListManagement/v1.0.0/ |
| **Verb** | DELETE |
| **Resource** | /list/{listId} |

***Request JSON***

|  |
| --- |
| DELETE  http://xyz.com/TodoListManagement/v1.0.0/list/1 |

***Response***

|  |
| --- |
| HTTP/1.1 200 OK |

***Exception***

|  |
| --- |
| HTTP/1.1 404 Not Found |

**TodoListManagement API – Create Item**

Create a Todo Item

|  |  |
| --- | --- |
| **Base Path** | /TodoListManagement/v1.0.0/ |
| **Verb** | POST |
| **Resource** | /item |

***Request JSON***

|  |
| --- |
| POST  http://xyz.com/TodoListManagement/v1.0.0/item  Content-Type: application/json  {  "description": "myItem1",  “listId”: 1,  "status": "pending"  } |

***Response JSON***

|  |
| --- |
| HTTP/1.1 201 Created  Content-Type: application/json  {  "itemId" : 1  } |

**TodoListManagement API – Update Item**

Update a Todo Item

|  |  |
| --- | --- |
| **Base Path** | /TodoListManagement/v1.0.0/ |
| **Verb** | PATCH / POST |
| **Resource** | /item/{itemId} |

***Request JSON***

|  |
| --- |
| POST  http://xyz.com/TodoListManagement/v1.0.0/item/1  Content-Type: application/json  {  "description": "myItem1",  "status": "completed"  } |

***Response***

|  |
| --- |
| HTTP/1.1 200 OK |

***Exception***

|  |
| --- |
| HTTP/1.1 404 Not Found |

**TodoListManagement API – Delete Item**

Delete a Todo Item

|  |  |
| --- | --- |
| **Base Path** | /TodoListManagement/v1.0.0/ |
| **Verb** | DELETE |
| **Resource** | /item/{itemId} |

***Request JSON***

|  |
| --- |
| DELETE  http://xyz.com/TodoListManagement/v1.0.0/item/1 |

***Response***

|  |
| --- |
| HTTP/1.1 200 OK |

***Exception***

|  |
| --- |
| HTTP/1.1 404 Not Found |

**TodoListManagement API – Get List**

Get Todo List and item under a list

|  |  |
| --- | --- |
| **Base Path** | /TodoListManagement/v1.0.0/ |
| **Verb** | GET |
| **Resource** | /list |

***Request JSON***

|  |
| --- |
| GET  http://xyz.com/TodoListManagement/v1.0.0/list |

***Response JSON***

|  |
| --- |
| HTTP/1.1 200 OK  Content-Type: application/json  {  “todolists”: [  {"category": "Work",  “createdTimestamp”:”2018-06-20 06:12:23.123”,  "description": "MyworkList",  “listId”: 1,  “todoItems”: [  {  “createdTimestamp”:”2018-06-20 06:13:47.456”,  "description": "myItem1",  “itemId”: 1,  "status": "completed"  }  ]  }  ]  } |

***Exception***

|  |
| --- |
| HTTP/1.1 404 Not Found |