

TodosAPI

TodoController

1. add my todo

POST /todos/addMyTodo

Request parameters

| 名称 | 位置 | 类型 | 必选 | 中文名 | 说明 |
|------|------|----------------------|----|------|------|
| body | body | Todo | 否 | Todo | none |

Body

```
{
  "id": 0,           // id of the todo
  "name": "task1",   // todo name
  "userId": 1,       // owner of the todo
  "status": 0,       // status
  "dueDate": "2019-08-24T14:15:22Z", // deadline
  "description": "string", // desc
  "createTime": "2019-08-24T14:15:22Z"
}
```

Response body

```
{
  "code": 0,
  "data": {},
  "message": "operate success"
}
```

2. delete todo item by id

POST /todos/deleteById/{id}

Request parameters

| 名称 | 位置 | 类型 | 必选 | 中文名 | 说明 |
|----|------|---------|----|-----|---------|
| id | path | integer | 是 | | todo id |

返回示例

Response body

```
{
  "code": 0,
  "data": {},
  "message": "operate success"
}
```

3. get todo item by id

GET /todos/getById/{id}

Request parameters

| 名称 | 位置 | 类型 | 必选 | 中文名 | 说明 |
|----|------|---------|----|-----|---------|
| id | path | integer | 是 | | todo id |

Response body

```
{
  "code": 0,
  "data": {
    "id": 0,           // id of the todo
    "name": "task1",  // todo name
    "userId": 1,      // owner of the todo
    "status": 0,       // status
    "dueDate": "2019-08-24T14:15:22Z", // deadline
    "description": "string", // desc
    "createTime": "2019-08-24T14:15:22Z"
  },
  "message": "operate success"
}
```

4. get all my todos

GET /todos/getMyTodos

Request parameters

null

Response body

```
{
  "code": 0,
  "data": [
    {
      "id": 0,           // id of the todo
      "name": "task1",  // todo name
    }
  ]
}
```

```
    "userId": 1,           // owner of the todo
    "status": 0,           // status
    "dueDate": "2019-08-24T14:15:22Z", // deadline
    "description": "string", // desc
    "createTime": "2019-08-24T14:15:22Z"
  }
],
"message": "operate success"
}
```

5. update todo item by id

POST /todos/updateById/{id}

Request parameters

| 名称 | 位置 | 类型 | 必选 | 中文名 | 说明 |
|------|------|----------------------|----|------|---------|
| id | path | integer | 是 | | todo id |
| body | body | Todo | 否 | Todo | none |

Body 请求参数

```
{
  "id": 0,           // id of the todo
  "name": "task1",   // todo name
  "userId": 1,       // owner of the todo
  "status": 0,       // status
  "dueDate": "2019-08-24T14:15:22Z", // deadline
  "description": "string", // desc
  "createTime": "2019-08-24T14:15:22Z"
}
```

Response body

```
{
  "code": 0,
  "data": {},
  "message": "operate success"
}
```

6. filter searching

POST /todos/filtering

Request parameters

| 名称 | 位置 | 类型 | 必选 | 中文名 | 说明 |
|------|------|----------------------|----|------|------|
| body | body | Todo | 否 | Todo | none |

Body 请求参数

```
{
  "name": "task",           // fuzzy query by %task%
  "userId": 1,             // Exact query by userId
  "status": 0,             // Exact query by status
  "dueDate": "2019-08-24T14:15:22Z", // query all deadlines before given deadline
}
```

Response body

```
{
  "code": 0,
  "data": [
    {
      "id": 0,               // id of the todo
      "name": "task1",       // todo name
      "userId": 1,           // owner of the todo
      "status": 0,           // status
      "dueDate": "2019-08-24T14:15:22Z", // deadline
      "description": "string", // desc
      "createTime": "2019-08-24T14:15:22Z"
    }
  ],
  "message": "operate success"
}
```

7. sort searching

POST /todos/sorting

Request parameters

| 名称 | 位置 | 类型 | 必选 | 中文名 | 说明 |
|------|------|---------------|----|-----|---------|
| body | body | array[string] | 否 | | columns |

Body 请求参数

```
// ... order by name dueDate ...
[
  "name",
  "dueDate",
  ...
]
```

Response body

```
{
  "code": 0,
  "data": [
    {
      "id": 0,                // id of the todo
      "name": "task1",       // todo name
      "userId": 1,           // owner of the todo
      "status": 0,           // status
      "dueDate": "2019-08-24T14:15:22Z", // deadline
      "description": "string", // desc
      "createTime": "2019-08-24T14:15:22Z"
    }
  ],
  "message": "operate success"
}
```

UserController

1. register user

POST /user/register

Request parameters

| 名称 | 位置 | 类型 | 必选 | 中文名 | 说明 |
|----------|-------|--------|----|-----|----------|
| password | query | string | 否 | | password |
| userName | query | string | 否 | | userName |

Response body

```
{
  "code": 0,
  "data": {
    "id": 0,
    "userName": "name",
    "password": "",
    "roleId": 0
  },
  "message": "operate success"
}
```

2. login and return token

POST /user/login

Request parameters

| 名称 | 位置 | 类型 | 必选 | 中文名 | 说明 |
|----------|-------|--------|----|-----|----------|
| password | query | string | 否 | | password |
| userName | query | string | 否 | | userName |

Response body

```
{
  "code": 0,
  "data": {
    "tokenHead": "Bearer ",
    "token":
    "eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJsds2QiLCJjcmVhdGVkIjoxNjcwMDY4NTI1OTgzLCJleHAiOjE2NzA2NzMzMjV9.CjqQ1URL7GzkxkqRs032sjCmCvp3gyVd6bFGFGymtXn80j_ze95iFYZ68vP-zBFfTA5m-H3n00zNgrEvS1002A"
  }
  "message": "operate success"
}
```

3. logout

POST /user/logout

返回示例

Response body

```
{
  "code": 0,
  "data": {},
  "message": "string"
}
```

CollaborationController

1. create a collaboration

POST /collaborate/create

Request parameters

| 名称 | 位置 | 类型 | 必选 | 说明 |
|----------|-------|--------|----|----------|
| password | query | string | 否 | password |

Response body

```
{
  "code": 0,
  "data": "todo:colla:userId", // collaboration code
  "message": "operate success"
}
```

2. close the collaboration

POST /collaborate/close

Request parameters

null

Response body

```
{
  "code": 0,
  "data": "close successfully",
  "message": "operate success"
}
```

3. join a collaboration

POST /collaborate/join

Request parameters

| 名称 | 位置 | 类型 | 必选 | 说明 |
|----------|-------|--------|----|---|
| collaNO | query | string | 否 | collaboration code |
| password | query | string | 否 | password for entering the collaboration |

Response body

```
{
  "code": 0,
  "data": "join collaboration successfully",
  "message": "operate success"
}
```

4.exit a collaboration

POST /collaborate/exit

Request parameters

| 名称 | 位置 | 类型 | 必选 | 说明 |
|---------|-------|--------|----|--------------------|
| collaNO | query | string | 否 | collaboration code |

Response body

```
{
  "code": 0,
  "data": {},
  "message": "operate success"
}
```

5.get collaboration info

GET /collaborate/getInfo

Request parameters

| 名称 | 位置 | 类型 | 必选 | 说明 |
|---------|-------|--------|----|--------------------|
| collaNO | query | string | 否 | collaboration code |

Response body

```
{
  "code": 0,
  "data": {
    "creator": 0,           // id of the user who create this collaboration
    "members": [           // ids of the users who are in this collaboration
      0
    ],
    "password": "string",  // password for access this collaboration
    "sharedIds": [         // ids of the users who's todos are being shared.
      0
    ]
  },
  "message": "operate success"
}
```


6.share my todos within the collaboration

POST /collaborate/share

Request parameters

| 名称 | 位置 | 类型 | 必选 | 说明 |
|---------|-------|--------|----|--------------------|
| collaNo | query | string | 否 | collaboration code |

Response body

```
{
  "code": 0,
  "data": {},
  "message": "operate success"
}
```

7.get all shared todos in this collaboration

GET /collaborate/getAllTodos

Request parameters

| 名称 | 位置 | 类型 | 必选 | 说明 |
|---------|-------|--------|----|--------------------|
| collaNo | query | string | 否 | collaboration code |

Response body

```
{
  "code": 0,
  "data": [
    {
      "memberId": 1,           // id of the member who's todo is being shared
      "todos": [
        {
          "id": 0,             // id of the todo
          "name": "task1",     // todo name
          "userId": 1,         // owner of the todo
          "status": 0,         // status
          "dueDate": "2019-08-24T14:15:22Z", // deadline
          "description": "string", // desc
          "createTime": "2019-08-24T14:15:22Z"
        }
      ]
    },
    {
      "memberId": 2,
      "todos": [
        {
```

```
{
  "id": 1,
  "name": "task2",
  "userId": 2,
  "status": 0,
  "dueDate": "2019-08-24T14:15:22Z",
  "description": "string",
  "createTime": "2019-08-24T14:15:22Z"
}
],
"message": "operate success"
}
```

8.edit in collaboration

POST /collaborate/editTodos

Request parameters

| 名称 | 位置 | 类型 | 必选 | 说明 |
|---------|-------|--------|----|--------------------|
| collaNo | query | string | 否 | collaboration code |
| | | | | |

Request Body

```
[
  {
    "id": 0,           // id of the todo
    "name": "task1",   // todo name
    "userId": 1,       // owner of the todo
    "status": 0,       // status
    "dueDate": "2019-08-24T14:15:22Z", // deadline
    "description": "string", // desc
    "createTime": "2019-08-24T14:15:22Z"
  },
  {
    "id": 1,           // id of the todo
    "name": "task2",   // todo name
    "userId": 2,       // owner of the todo
    "status": 0,       // status
    "dueDate": "2019-08-24T14:15:22Z", // deadline
    "description": "string", // desc
    "createTime": "2019-08-24T14:15:22Z"
  }
]
```

Response body

```
{
  "code": 0,
  "data": {},
  "message": "operate success"
}
```

Model

User

```
{
  "id": 0,
  "password": "string",
  "roleId": 0,
  "userName": "string"
}
```

属性

| 名称 | 类型 | 必选 | 约束 | 中文名 | 说明 |
|----------|----------------|-------|------|-----|------|
| id | integer(int64) | false | none | | none |
| password | string | false | none | | none |
| roleId | integer(int64) | false | none | | none |
| userName | string | false | none | | none |

Todo

```
{
  "createTime": "2019-08-24T14:15:22Z",
  "description": "string",
  "dueDate": "2019-08-24T14:15:22Z",
  "id": 0,
  "name": "string",
  "status": 0,
  "userId": 0
}
```

属性

| 名称 | 类型 | 必选 | 约束 | 中文名 | 说明 |
|-------------|-------------------|-------|------|-----|----------------|
| createTime | string(date-time) | false | none | | create time |
| description | string | false | none | | description |
| dueDate | string(date-time) | false | none | | deadline |
| id | integer(int64) | false | none | | primary Key |
| name | string | false | none | | todo item name |
| status | integer(int32) | false | none | | status |
| userId | integer(int64) | false | none | | userId |

CollaborateInfo

```
{
  "creator": 0,
  "members": [
    0
  ],
  "password": "string",
  "sharedIds": [
    0
  ]
}
```

属性

| 名称 | 类型 | 必选 | 约束 | 中文名 | 说明 |
|-----------|----------------|-------|------|-----|------|
| creator | integer(int64) | false | none | | none |
| members | [integer] | false | none | | none |
| password | string | false | none | | none |
| sharedIds | [integer] | false | none | | none |

MemberTodos

```
{
  "memberId": 0,
  "todos": [
    {
      "createTime": "2019-08-24T14:15:22z",
      "description": "string",
      "dueDate": "2019-08-24T14:15:22z",
      "id": 0,
      "name": "string",
      "status": 0,
      "userId": 0
    }
  ]
}
```

属性

| 名称 | 类型 | 必选 | 约束 | 中文名 | 说明 |
|----------|--------------------------|-------|------|-----|------|
| memberId | integer(int64) | false | none | | none |
| todos | [Todo] | false | none | | none |