

# Api Design Document

- Api Design : Reference Data Maintenance
- Technologies Used :
  - Backend - Nodejs, expressjs
  - Database- mongoDb
- Purpose of the api :
  - To maintain the userdata
  - To perform the create, read, edit operations of the users data
- Possibility of failure scenarios and conditions :
  - Incorrect database configuration
- Postman documentation link :

<https://documenter.getpostman.com/view/23556069/2s83zpK1be>

# HTTP methods and status codes

## ➤ 1) GET /api/fields

- **Request** : List all the fields contained within the collection resource

```
GET /api/fields HTTP/1.1  
Host : http://localhost:8000/api/fields  
Accept: application/json
```

- **Response** : A response of "200 OK" indicating that the request has succeeded.

```
HTTP/1.1 200 OK  
Vary: Accept  
Content-Type: application/json  
{"success": true,  
  "statusCode": 200,  
  "data": [  
    {  
      "_id": "63483009fdea3c69d164ddb7",  
      "userName": "steve",  
      "fieldName": "I am coming to chennai",  
      "createdAt": "2022-10-13T15:34:33.456Z",  
      "updatedAt": "2022-10-13T15:34:33.456Z",  
      "__v": 0  
    },  
    {  
      "_id": "6348c89109a944e8e5b05b07",  
      "userName": "Binny",  
      "fieldName": "please come to my cabin",  
      "createdAt": "2022-10-14T02:25:21.331Z",  
      "updatedAt": "2022-10-14T02:25:21.331Z",  
      "__v": 0  
    }  
  ],  
  "message": "Successfully fetched data from the database"  
}
```

- Success response :
  - Status Code : 200 OK – no error
- Error response :
  - Status Code : 404 Not Found – the “fieds” resource does not exist

## ➤ 2 ) POST /api/create

- **Request :** To create a document the collections with required field
- **Validations :** The validation has been done by the mongoose schema validation

```
{
  userName: {
    type: String,
    required: true,
  },
  fieldName: {
    type: String,
    required: true,
    maxLength: 300, //only 300 characters are accepted
  },
},
{
  timestamps: true,
},
```

### Request object

HTTP/1.1 201 Created

Vary: Accept

Content-Type: application/json

```
{
  "userName": "Binny",
  "fieldName": "please come to my cabin"
}
```

- A response of “201 Created” indicates that the request has been fulfilled.
- The URI of the new resource is provided in the response

- **Response**

HTTP/1.1 201 Created

Vary: Accept

Content-Type: application/json

```
{
  "success": true,
  "statusCode": 201,
  "message": "Successfully Added Data",
  "data": {
    "userName": "Binny",
    "fieldName": "please come to my cabin",
    "__id": "6348c89109a944e8e5b05b07",
    "createdAt": "2022-10-14T02:25:21.331Z",
    "updatedAt": "2022-10-14T02:25:21.331Z",
    "__v": 0
  }
}
```

- Success response :
  - Status Code : 201 OK – no error
- Error response :
  - Status Code : 512 -Validation error

### ➤ 3 ) PUT /api/edit/:id

- **Query params** – <http://localhost:8000/api/edit/6348d553d529e9c7f94e2155>
- **Validations** - mongoose schema validation
- **Request** : Update the particular field in the collection based on the id that are getting from params as id

- **Request object :**

```
PUT /api/edit/:id
HTTP/1.1
Host: http://localhost:8000/api/edit/:1223233
Accept: application/json

{
  "userName": "will world",
  "fieldName" : "This is updated field"
}
```

- **Response**

- A response of “204 updated” indicates that the request has been fulfilled

```
HTTP/1.1 200 OK
Vary: Accept
Content-Type: text/javascript

{
  "username" : "Will world",
  "fieldName": " This is updated field"
  "_id": "6348c89109a944e8e5b05b07",
  "createdAt": "2022-10-14T02:25:21.331Z",
  "updatedAt": "2022-10-14T02:25:34.331Z",
  "__v": 0
}
```

- **Success response :**

- Status Code : 204 OK – successfully updated

- **Error response :**

- Status Code : 512 -Validation error

- Database : Mongodb
  - Collection name – epikindifi
  - Fields: userName(user input), fieldName (user input) ,  
\_id(default , createdAt(default), updatedAt(default)  
updatedAt(default)
- Purpose of Each keys

S.no	Field Name	Type	Description	Purpose
1	_id	String	Unique id for individual document	To identify the document uniquely
2	userName	String	Name of the user	To identify the document and to perform search,update and etc opeations.
3	fieldName	String	Name of the field	To identify the document and to perform search,update and etc opeations.
4	createdAt	Date	document creation date and time	To get the document creation date and time
5	updatedAt	Date	document updation date and time	To get the document updation date and time