Schema

Needed:

* Users
* Topics
* Articles

Users:

* \_id
* username
* email
* password (Hash?)
* createDate
* isAdmin
* isDeactivated

Topics:

* \_id
* topicName
* topicImage
* articleID
* creatorID
* isDeleted

Articles:

* \_id
* topicID
* creatorID
* title
* image
* content
* isFeatured
* tags
* viewCount
* createDate
* isDeleted

Tags:

* \_id
* tagName
* articleID

APIs:

* /signup:
  + Post
  + User.create
  + Input:

{

"username": "1",

"email": "1",

"password": "1"

}

* + Output:

{

    "createDate": "2020-08-02T17:09:48.324Z",

    "isAdmin": false,

    "isDeactivated": false,

    "\_id": "5f26f3c8ad012f70ac9a857a",

    "username": "1",

    "email": "1",

    "password": "1",

    "\_\_v": 0

}

* /newAdmin:
  + Post
  + User.assignAdmin
  + Input:

{

"userID": "5f26f3c8ad012f70ac9a857a",

"adminID": “5f26f242114132664c6ed94f"

}

* + Output:

{

    "done": "Updated",

    "user": {

        "createDate": "2020-08-02T17:09:48.324Z",

        "isAdmin": true,

        "isDeactivated": false,

        "\_id": "5f26f3c8ad012f70ac9a857a",

        "username": "1",

        "email": "1",

        "password": "1",

        "\_\_v": 0

    }

}

* /login:
  + Post
  + User.login
  + Input:

{

"username": "Default Admin",

"password": "password"

}

* + Output:

{

    "Status": "Login successful, JSON Web Token Generated"

}

* /newTopic:
  + Post
  + Topic.create
  + Input:

{

"topicName": "Topic Name 1",

"creatorID": "5f26f242114132664c6ed94f"

}

* + Output:

{

    "articleID": [],

    "isDeleted": false,

    "\_id": "5f26f7ca87c8034db46c7a0d",

    "topicName": "Topic Name 1",

    "creatorID": "5f26f242114132664c6ed94f",

    "\_\_v": 0

}

* /newArticle:
  + Post
  + Article.create
  + Input:

{

    "updaterID": "5f26f242114132664c6ed94f",

    "topicID": "5f26f7ca87c8034db46c7a0d",

    "content": "New Content 2",

    "title": "New Title 2"

}

* + Output:

{

    "article": {

        "isFeatured": false,

        "tags": [],

        "viewCount": 0,

        "createDate": "2020-08-02T17:55:55.743Z",

        "isDeleted": false,

        "\_id": "5f26ff3bc4cd2d566803261d",

        "creatorID": "5f26f242114132664c6ed94f",

        "topicID": "5f26f7ca87c8034db46c7a0d",

        "title": "New Title 2",

        "content": "New Content 2",

        "\_\_v": 0

    },

    "topic": {

        "articleID": [

            "5f26f83487c8034db46c7a0e",

            "5f26fd6cc458d211c8b7176f",

            "5f26ff3bc4cd2d566803261d"

        ],

        "isDeleted": false,

        "\_id": "5f26f7ca87c8034db46c7a0d",

        "topicName": "Topic Name 1",

        "creatorID": "5f26f242114132664c6ed94f",

        "\_\_v": 0

    }

}

* /updateArticle:
  + Post
  + Article.update
  + Input:

{

    "updaterID": "5f26f242114132664c6ed94f",

    "topicID": "5f26f7ca87c8034db46c7a0d",

    "content": "Updated Content",

    "articleID": "5f26fd6cc458d211c8b7176f"

}

* + Output:

{

    "isFeatured": false,

    "tags": [],

    "viewCount": 0,

    "createDate": "2020-08-02T17:50:33.431Z",

    "isDeleted": false,

    "\_id": "5f26fd6cc458d211c8b7176f",

    "creatorID": "5f26f242114132664c6ed94f",

    "topicID": "5f26f7ca87c8034db46c7a0d",

    "title": "Updated",

    "content": "Updated Content",

    "\_\_v": 0

}

* /getTopics:
  + Get
  + Topic.returnAll
  + Output:

{

    "done": "returning all topics",

    "topics": [

        {

            "articleID": [

                "5f26f83487c8034db46c7a0e",

                "5f26fd6cc458d211c8b7176f",

                "5f26ff3bc4cd2d566803261d"

            ],

            "isDeleted": false,

            "\_id": "5f26f7ca87c8034db46c7a0d",

            "topicName": "Topic Name 1",

            "creatorID": "5f26f242114132664c6ed94f",

            "\_\_v": 0

        }

    ]

}

* /getArticles:
  + Get
  + Article. returnAll
  + Output:

{

    "done": "returning all articles",

    "articles": [

        {

            "isFeatured": false,

            "tags": [],

            "viewCount": 2,

            "createDate": "2020-08-02T17:50:33.431Z",

            "isDeleted": false,

            "\_id": "5f26fd6cc458d211c8b7176f",

            "creatorID": "5f26f242114132664c6ed94f",

            "topicID": "5f26f7ca87c8034db46c7a0d",

            "title": "Updated",

            "content": "Updated Content",

            "\_\_v": 0

        },

        {

            "isFeatured": false,

            "tags": [],

            "viewCount": 2,

            "createDate": "2020-08-02T17:55:55.743Z",

            "isDeleted": false,

            "\_id": "5f26ff3bc4cd2d566803261d",

            "creatorID": "5f26f242114132664c6ed94f",

            "topicID": "5f26f7ca87c8034db46c7a0d",

            "title": "New Title 2",

            "content": "New Content 2",

            "\_\_v": 0

        }

    ]

}

* + /getTopicID:
  + Post
  + Topic.returnOne
  + Input:

{

    "topicID": "5f26f7ca87c8034db46c7a0d"

}

* + Output:

{

    "done": "returning specified topic",

    "topics": {

        "articleID": [

            "5f26f83487c8034db46c7a0e",

            "5f26fd6cc458d211c8b7176f",

            "5f26ff3bc4cd2d566803261d"

        ],

        "isDeleted": false,

        "\_id": "5f26f7ca87c8034db46c7a0d",

        "topicName": "Topic Name 1",

        "creatorID": "5f26f242114132664c6ed94f",

        "\_\_v": 0

    }

}

* /getArticleID:
  + Post
  + Article. returnOne
  + Input:

{

    "articleID": "5f26fd6cc458d211c8b7176f"

}

* + Output:

{

    "done": "returning specified article",

    "article": {

        "isFeatured": false,

        "tags": [],

        "viewCount": 3,

        "createDate": "2020-08-02T17:50:33.431Z",

        "isDeleted": false,

        "\_id": "5f26fd6cc458d211c8b7176f",

        "creatorID": "5f26f242114132664c6ed94f",

        "topicID": "5f26f7ca87c8034db46c7a0d",

        "title": "Updated",

        "content": "Updated Content",

        "\_\_v": 0

    },

    "relatedArticles": []

}

* /getArticlesByTopic:
  + Post
  + Article.returnTopic
  + Input:

{

“topicID”:

}

* + Output:

{

    "done": "returning all articles",

    "articles": [

        {

            "isFeatured": false,

            "tags": [],

            "viewCount": 4,

            "createDate": "2020-08-02T17:50:33.431Z",

            "isDeleted": false,

            "\_id": "5f26fd6cc458d211c8b7176f",

            "creatorID": "5f26f242114132664c6ed94f",

            "topicID": "5f26f7ca87c8034db46c7a0d",

            "title": "Updated",

            "content": "Updated Content",

            "\_\_v": 0

        },

        {

            "isFeatured": false,

            "tags": [],

            "viewCount": 3,

            "createDate": "2020-08-02T17:55:55.743Z",

            "isDeleted": false,

            "\_id": "5f26ff3bc4cd2d566803261d",

            "creatorID": "5f26f242114132664c6ed94f",

            "topicID": "5f26f7ca87c8034db46c7a0d",

            "title": "New Title 2",

            "content": "New Content 2",

            "\_\_v": 0

        }

    ]

}

* /newTag
  + Post
  + Tags.create
  + Input:

{

“tagName”: “New Tag”,

“adminID”: “5f26f242114132664c6ed94f

}

* + Output:

{

    "articleID": [],

    "\_id": "5f2705a2a641a9345caec305",

    "tagName": "New Tag",

    "\_\_v": 0

}

* /getArticleTags:
  + Post
  + Article.returnTag
  + Input:

{

“tagName”: “NewTag”

}

* + Output:

{

    "status": "Returning articles with tag",

    "articles": [

        {

            "isFeatured": false,

            "tags": [

                "5f270955910d2b7564234e9e"

            ],

            "viewCount": 8,

            "createDate": "2020-08-02T17:50:33.431Z",

            "isDeleted": false,

            "\_id": "5f26fd6cc458d211c8b7176f",

            "creatorID": "5f26f242114132664c6ed94f",

            "topicID": "5f26f7ca87c8034db46c7a0d",

            "title": "Updated",

            "content": "Updated Content",

            "\_\_v": 0

        }

    ]

}

* /generateTree:
  + Get
  + Article.generateTree
  + Output:

{

    "Tree": {

        "root": {

            "id": "5f26f83487c8034db46c7a0e",

            "views": 7,

            "left": {

                "id": "5f26ff3bc4cd2d566803261d",

                "views": 4,

                "left": null,

                "right": null

            },

            "right": {

                "id": "5f26fd6cc458d211c8b7176f",

                "views": 8,

                "left": null,

                "right": null

            }

        }

    }

}