



# **WEB TECHNOLOGY**

## **(ITITC18)**

# **PROJECT WORK**

**Submitted to:**  
Ms. Divya Gupta

**Submitted By:**  
Prithesh Dwivedi  
*2019UIT3152*  
Divya Agarwal  
*2019UIT3156*

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# INTRODUCTION

‘READ-WRITE’ is an Article Writing App rendered with beautiful design in the background enriching user experience by providing a writer-friendly virtual environment experience. This website not only enables writers to express themselves through words, but also with images of their preference, thus making an impact on the mind of writers as well and simultaneously doing justice to the name of the App.



Lorem ipsum dolor sit amet consectetur adipisicing elit. Amet excepturi pariatur repudiandae ut preferendis est.

[Read an Article](#)



Format \* Topics \* Important tips \* Best examples

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[Write an Article](#)

This Website employs the use of JavaScript **Styled Components** and **Bootstrap CSS** to provide a comfortable experience to both- enthusiastic readers and budding writers. In addition, in order to add versatility to the Background, we have added the option of enabling **Dark-Feature Mode** to the user. Built with the help of MERN Stack, ‘Read-Write’ leaves no stones unturned to act as an user-friendly platform.

The Article written is rendered immediately in Cards along with the supporting image at the top. The Name of the Author is shown at the bottom of the same.



## Junk Food

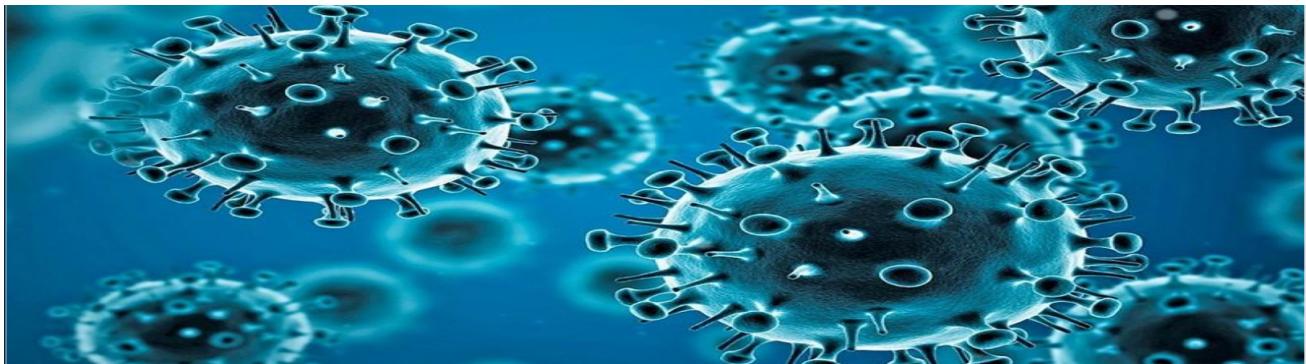
If It Is Food, Why Is It Junk? Food is generally any substance that is meant to provide nutritional support and help one survive. It is expected to boost one's immune system, strengthen the bones, help different functions of the body, including the digestive system, keep all organs functioning, lower the risk of diseases, support muscles and promote overall growth. Every human being has different food habits and food preferences. Based on the preferences, they can be categorised mainly into vegetarian and non-vegetarian consumers. A vegetarian diet usually consists of grams, pulses, vegetables, fruits, healthy fat and protein-rich food like legumes, nuts, seeds, etc. On the contrary, a non-vegetarian diet includes all kinds of dairy products, meat, fish, seafood, poultry and eggs. Both vegetarian and non-vegetarian foods are expected to provide the

love and still be healthy? Here are a few ways to keep a check on your health while getting to eat your favourite food at the same time. If you are a person who has junk food every day, try cutting down a little and have a balanced diet. If you are a person who loves to have carbonated drinks all the time, try to reduce them and substitute them with fresh fruit juices and health drinks. Try making your own burgers, pizzas, cakes, etc., as you could be at least a little conscious of the ingredients you add. This will also help you identify the kind of substances that are a part of your favourite food and therefore be mindful of it. Keep your weight in check. Take care to work out and burn your calories regularly so that your body does not accumulate unhealthy fat but burn them and keep you healthy instead. Try consuming low sugar, low salt and low-fat food and drinks to stay healthy. Spreading the Word It is important to understand that health is the most important factor to live a happy life. Having your favourite foods is what everyone wants but see to that you have food that is healthy and nutritious too. Any change starts with an individual's decision to alter his/her lifestyle choices. The reason it is very difficult to bring change is that not many know of the harmful effects of any of the problems one is facing. The more one eats junk food, the more it eats one's health away. The health hazards caused by junk foods are more serious than one thinks. The food sure looks tempting and tasty too, but there is nothing healthy or nutritious that could come from junk food. It makes you feel lethargic and lazy. Junk food contains high amounts of carbohydrates which in turn spike your blood sugar levels. It increases the risk of heart attack and other cardiovascular diseases. Mass-produced packaged foods, which are used to make popular and most loved foods like burgers, pizzas, sandwiches, pasta, aerated drinks, etc., are loaded with ingredients that increase the levels of cholesterol and fat, which in turn results in obesity. Today's children face problems of obesity even at a very young age when most of their grandparents are still fit and fine. Young women, especially, face hormonal issues leading to Polycystic Ovarian Disease (PCOD) and pregnancy-related problems. Spreading the word about the various health hazards that emerge as a result of junk food is the need of the hour. Switching to healthy plates with equal quantities of fruits and vegetables on one side and the rest with proteins, pulses, and grains can be an apt alternative. Frequently Asked Questions on Junk Food Why is junk food bad for health? Junk food is mostly filled with high amounts of fat, salt and sugar, which are more than what the body needs. What are some examples of junk food? Packaged foods like processed meat, biscuits, cakes, aerated drinks, burgers, pizzas, etc., are some examples of junk food. What are the disadvantages of junk food? Junk food accumulates bad cholesterol and fat that increases the risk of developing multiple health hazards like obesity, cardiovascular diseases, heart attack, etc.

Uploaded by: **Prithesh Dwivedi**

# FEATURES

## 1. Articles Supported by images



### COVID-19

The effects of the virus are different from person to person. For most people, it starts with a common cold and fever that develops into serious respiratory problems, fatigue, soreness and loss of taste and smell. The virus has developed into a lot of variants, and each one becomes even more severe with the onset of a new variant. The spread of the virus takes place when an individual comes into contact with an infected person. It spreads from the person's nose or mouth when they sneeze, yawn, cough, breathe, speak or sing. We have been taught respiratory etiquette, covering our mouth and nose when coughing or sneezing and isolating ourselves when we are unwell. These are the same rules that apply to keep ourselves and others from being infected by the virus.

Uploaded by: Divya Agarwal



### My First Article

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## 2. Article Upload through a form



# Article Writing

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[Write an Article](#)

## Upload your Article

Your Name:

Title:

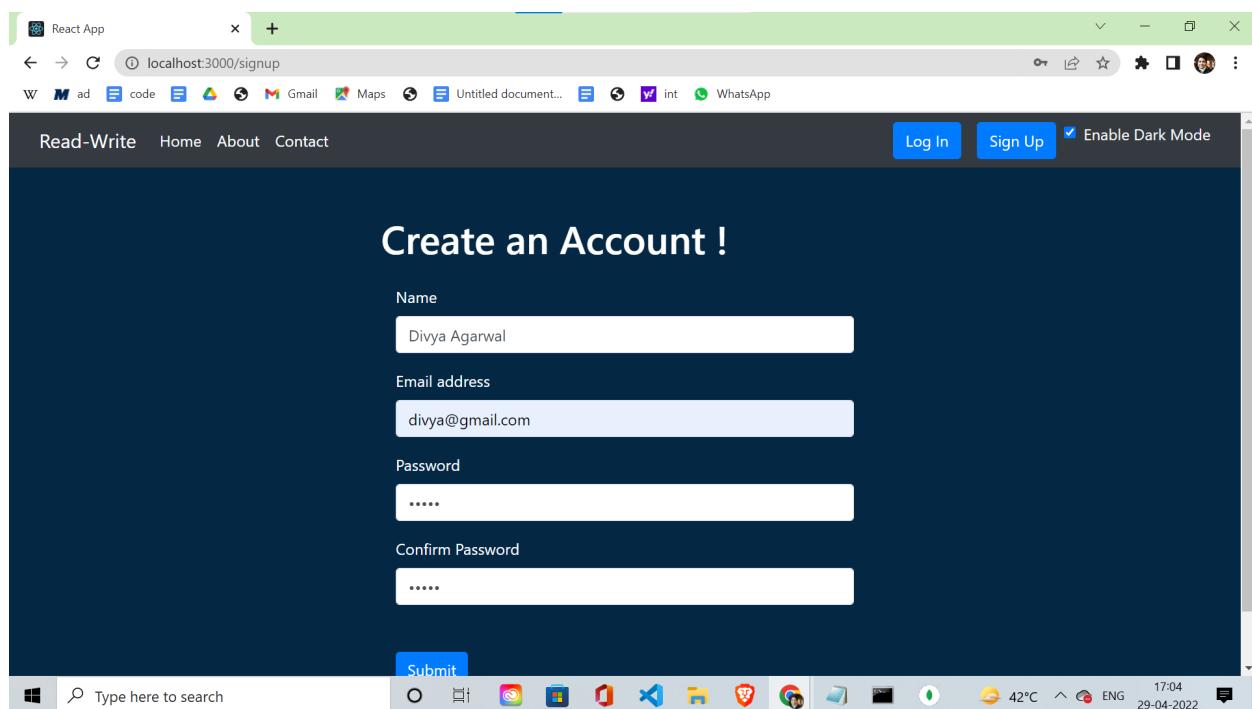
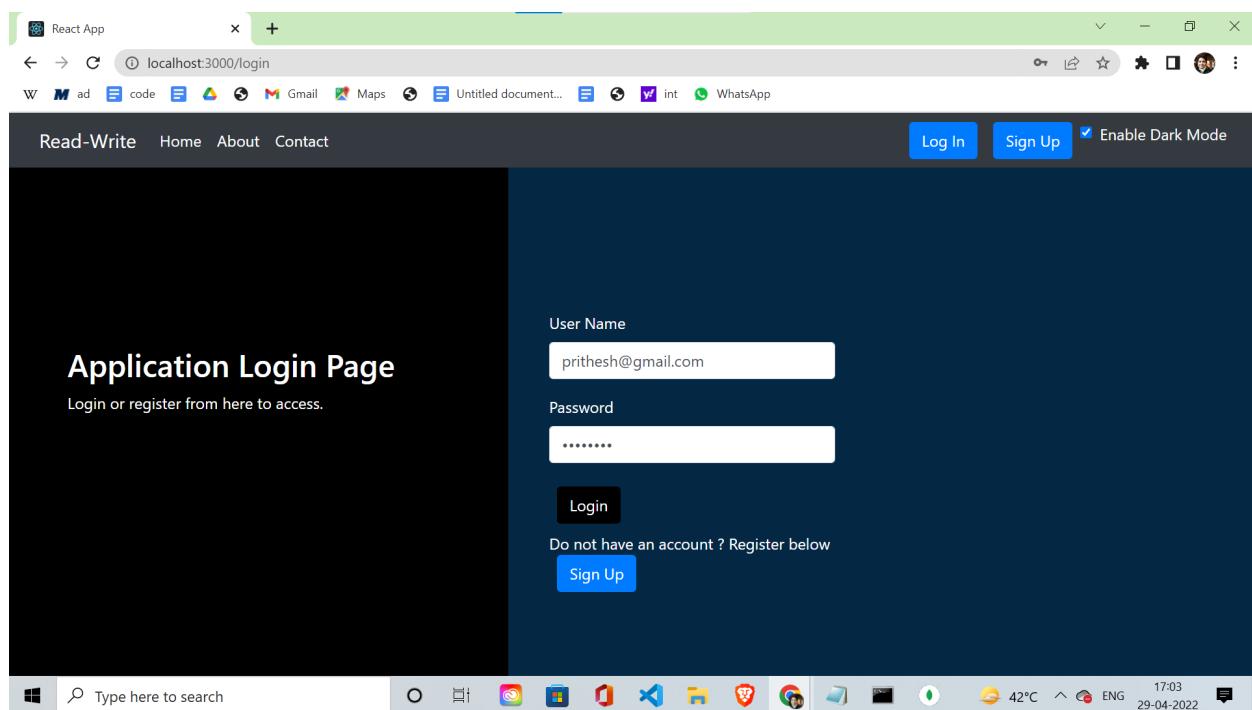
Description

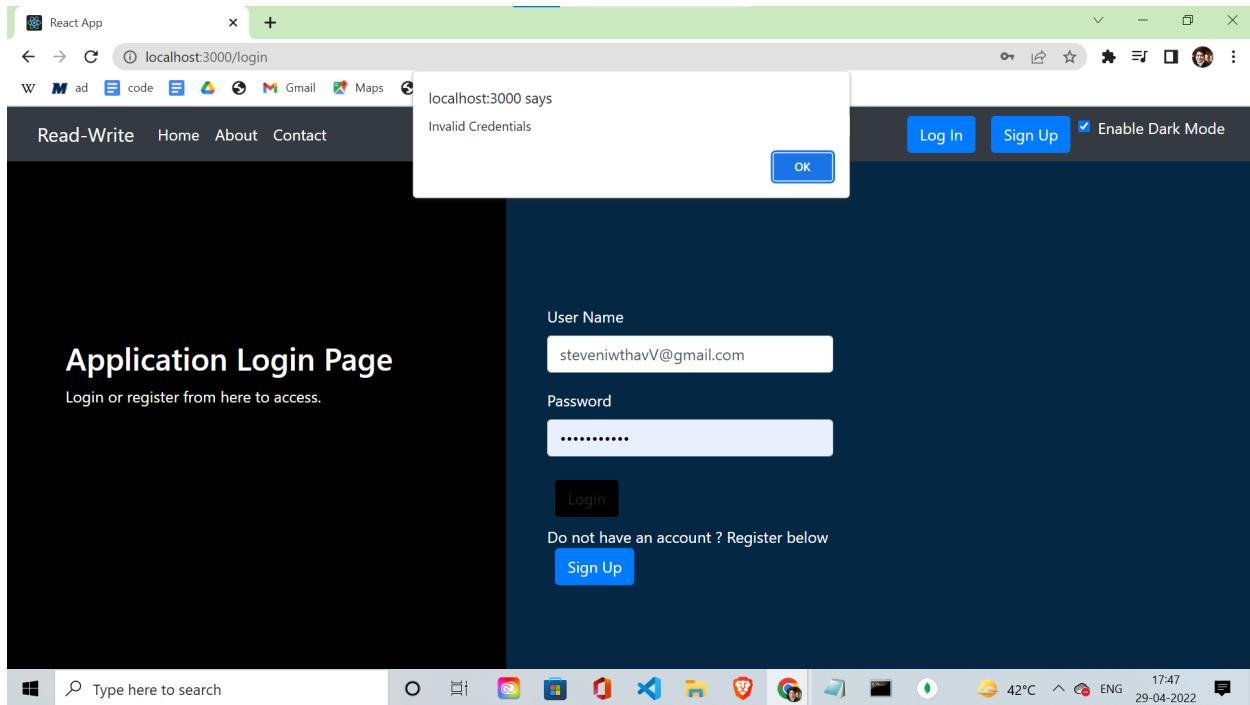
Price

Choose File

 No file chosen

### 3. Login and SignUp Pages for User Authentication





The Login and Sign-Up Authentication Process is handled through **Node JS** and **Express JS**. The **JWT\_Secret key** used for securing the password used is *the\_\$developer*. Kindly find the route code for the same below:

```
const express=require('express');
const User=require('../models/User');
const router=express.Router();
const {body,validationResult}=require('express-validator');
const bcrypt=require('bcryptjs')
const fetchuser=require('../middleware/fetchuser');
const jwt=require('jsonwebtoken');

const JWT_SECRET='the_$developer'
// Route 1:create a user using POST: // No login required
router.post('/createuser',[
```

```

body('name').isLength({min:3}),
body('email').isEmail(),
body('password','password must be at least 5
characters').isLength({min:5})
],async(req,res)=>{

    let success=false;

    // if there are errors return bad request and the errors
    const errors = validationResult(req);

    if (!errors.isEmpty()) {
        return res.status(400).json({success, errors: errors.array() });
    }
    // check whether the user with same email exists already

    try{

        let user =await User.findOne({email:req.body.email})

        if(user){
            console.log(user)
            return res.status(400).json({success,error:"An user with this email
exists"})
        }

        const salt=await bcrypt.genSalt(10);

        const secPass=await bcrypt.hash(req.body.password,salt)

        //create a new user
        user=await User.create({
            name:req.body.name,
            email:req.body.email,
            password:secPass
        });

        const data={
            user:{


```

```

        id:user.id
    }
}

const authToken= jwt.sign(data,JWT_SECRET);
//console.log(authToken);

//res.json({user})
success=true;
res.json({success,authToken});

}

catch(error){
    console.log(error.message)
    res.status(500).send("Internal Server Occured")
}

//.then(user=>res.json(user)).catch(err=>{console.log(err)
//res.json({error:"Please enter a unique value for
email",message:err.message}) });

//    res.send(req.body);
})

// Route 2: Authenticate a user using POST: /api/uth/createuser // No
login required

router.post('/login', [
    body('email', 'Enter a valid email').isEmail(),
    body('password', 'Password cannot be blank').exists(),
], async (req, res) => {
    let success = false;
    // If there are errors, return Bad request and the errors
    const errors = validationResult(req);
    if (!errors.isEmpty()) {
        return res.status(400).json({ errors: errors.array() });
    }

    const { email, password } = req.body;
    try {

```

```

let user = await User.findOne({ email });
if (!user) {
  success = false
  return res.status(400).json({ error: "Please try to login with correct credentials" });
}

const passwordCompare = await bcrypt.compare(password, user.password);
if (!passwordCompare) {
  success = false
  return res.status(400).json({ success, error: "Please try to login with correct credentials" });
}

const data = {
  user: {
    id: user.id
  }
}
const authtoken = jwt.sign(data, JWT_SECRET);
success = true;
res.json({ success, authtoken })

} catch (error) {
  console.error(error.message);
  res.status(500).send("Internal Server Error");
}
}

// Route 3: get log in user details using POST: /api/auth/getuser // login required

router.post('/getuser', fetchuser, async (req, res) => {

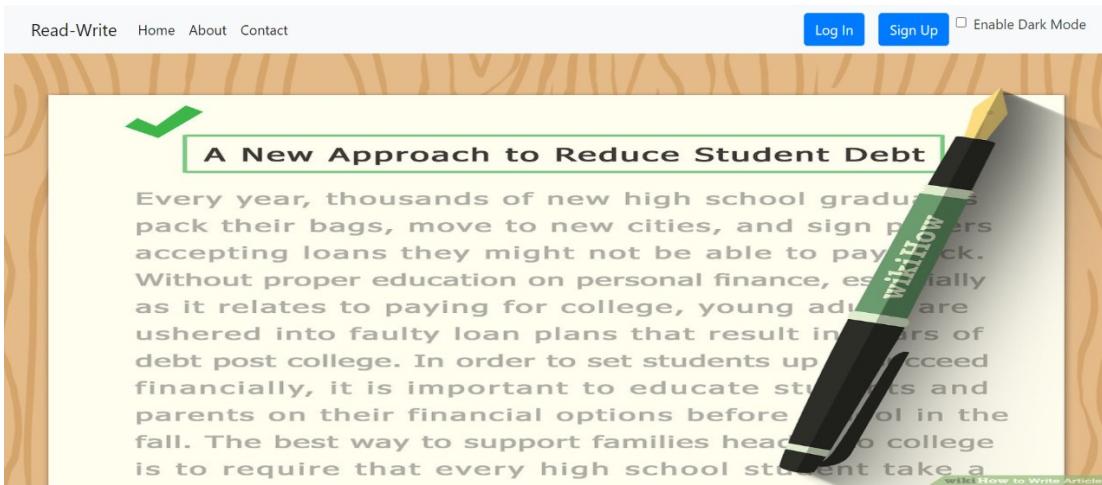
try{
  var userId=req.user.id;
  const user=await User.findById(userId).select("-password")
  res.send(user);
}

```

```
    } catch(error) {  
  
        console.log(error.message)  
        res.status(500).send("Internal Server Occured")  
  
    }  
}  
  
module.exports=router
```

## 4. Dark Mode for enriching User-Experience

- *Home Page without Dark Mode*



This section displays two separate articles. The left article features a blurred background image of a coffee cup and a tablet displaying a political campaign website. It includes a red 'Read an Article' button at the bottom. The right article features a blurred background image of a person writing in a notebook. It includes a green 'Write an Article' button at the bottom. Both articles have a title 'Article Writing' and a brief description below it.

The footer is a dark gray section. It features a row of social media icons at the top. Below that is a newsletter sign-up form with fields for 'Email address' and a 'Subscribe' button. A small note in the middle says 'Lorem ipsum dolor sit amet consectetur adipisicing elit. Sunt distinctio earum repellat quaerat voluptatibus placeat nam, commodi optio pariatur est quia magnam eum harum corrupti dicta, aliquam sequi voluptate quas.'. At the bottom, there are four columns of 'LINKS' with lists of four links each. The footer also includes a copyright notice '© 2020 CopyrightMDBootstrap.com'.

- *Home Page with Dark Mode*

Read-Write Home About Contact Log In Sign Up  Enable Dark Mode

 A New Approach to Reduce Student Debt

Every year, thousands of new high school graduates pack their bags, move to new cities, and sign papers accepting loans they might not be able to pay back. Without proper education on personal finance, especially as it relates to paying for college, young adults are ushered into faulty loan plans that result in years of debt post college. In order to set students up to succeed financially, it is important to educate students and parents on their financial options before school in the fall. The best way to support families heading to college is to require that every high school student take a wikiHow How to Write Articles





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[Read an Article](#)

## Article Writing



Format \* Topics \* Important tips \* Best examples

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Email address

Lorem ipsum dolor sit amet consectetur adipisicing elit. Sunt distinctio earum repellat quaerat voluptatibus placeat nam, commodi optio pariatur est quia magnam eum harum corrupti dicta, aliquam sequi voluptate quas.

LINKS	LINKS	LINKS	LINKS
Link 1	Link 1	Link 1	Link 1
Link 2	Link 2	Link 2	Link 2
Link 3	Link 3	Link 3	Link 3
Link 4	Link 4	Link 4	Link 4

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# USER-SECURITY

We have Used **MongoDB** for storing User Information and the articles written by them AND **BcryptJS**, which is an NPM package for adding salt and pepper to the password.

## MongoDB Authentication Mechanisms

MongoDB Atlas comes with built-in TLS and the latest authentication abilities, like SCRAM, X.509, AWS IAM, and LDAP integrations. It allows an easy UI or API setup.

To secure your deployments, you must apply at least one of the following mechanisms.

Each of these mechanisms has its benefits and use cases.

- **SCRAM (*Default*)**

SCRAM, which is also known as *Salted Challenge Response Authentication Mechanism*, adheres to the best practices set out in RFC 5802, which defines standards for authenticating users with a challenge-response mechanism. It is commonly referred to as username/password authentication and can use SHA-1 or SHA-256 algorithms.

- **x.509 Certificate Authentication**

MongoDB supports X.509 certificate authentication for use with a secure TLS connection. The X.509 certificate allows clients to

authenticate to servers with certificates rather than with a username and password.

- **LDAP Proxy Authentication (Only for MongoDB Enterprise and Atlas)**

MongoDB Enterprise supports federated SSO authentication of users. This allows administrators to configure a MongoDB cluster to authenticate users by proxying authentication requests to a specified LDAP service.

- **Kerberos Authentication (Only for MongoDB Enterprise)**

MongoDB Enterprise supports authentication using a Kerberos service. Kerberos is an IETF (RFC 4120) standard authentication protocol for large client/server systems.

## User credentials in MongoDB Compass:

The screenshot shows two instances of the MongoDB Compass application interface. Both instances are connected to the same database and collection: 'localhost:27017/test.users'. The left instance displays 12 documents and 2 indexes, while the right instance displays 11 documents and 2 indexes. The 'Documents' tab is selected in both cases. A search bar at the top of each interface contains the query '{ field: 'value' }'. The results list three distinct user documents, each with a unique \_id, name, email, password, and a \_\_v field set to 0.

**Document 1 (Left Instance):**

```
_id: ObjectId('624af20a8c9f85787bcc9286')
name: "divya"
email: "divya@gmail.com"
password: "$2a$10$PiqlnodeLrKX4e5BnMBeso9WjB4iySQHaygimMKRiIS3H.jebBZow"
__v: 0
```

**Document 2 (Left Instance):**

```
_id: ObjectId('624b053d32341c477741c500')
name: "Prithesh Dwivedi"
email: "kane@gmail.com"
password: "$2a$10$Si47vQicCz0SEPhJnmwUjTOJQTdMpXaw572zVMUFuqsEnzITL5/cQ"
__v: 0
```

**Document 3 (Left Instance):**

```
_id: ObjectId('624b067032341c477741c506')
name: "krishav"
email: "krishav@gmail.com"
password: "$2a$10$PZG5GuluzeX89MN9rSqqe93Huv07f4vaiaf2wftx87eV9grMbHm"
__v: 0
```

**Document 1 (Right Instance):**

```
_id: ObjectId('62580790ec09093aab2c2e9')
name: "Mohit"
email: "mohit@gmail.com"
password: "$2a$10$950czpZYd5j4sWUWkTx7unExNq0NxupP1f0qZl8fa991eq/qSM6"
__v: 0
```

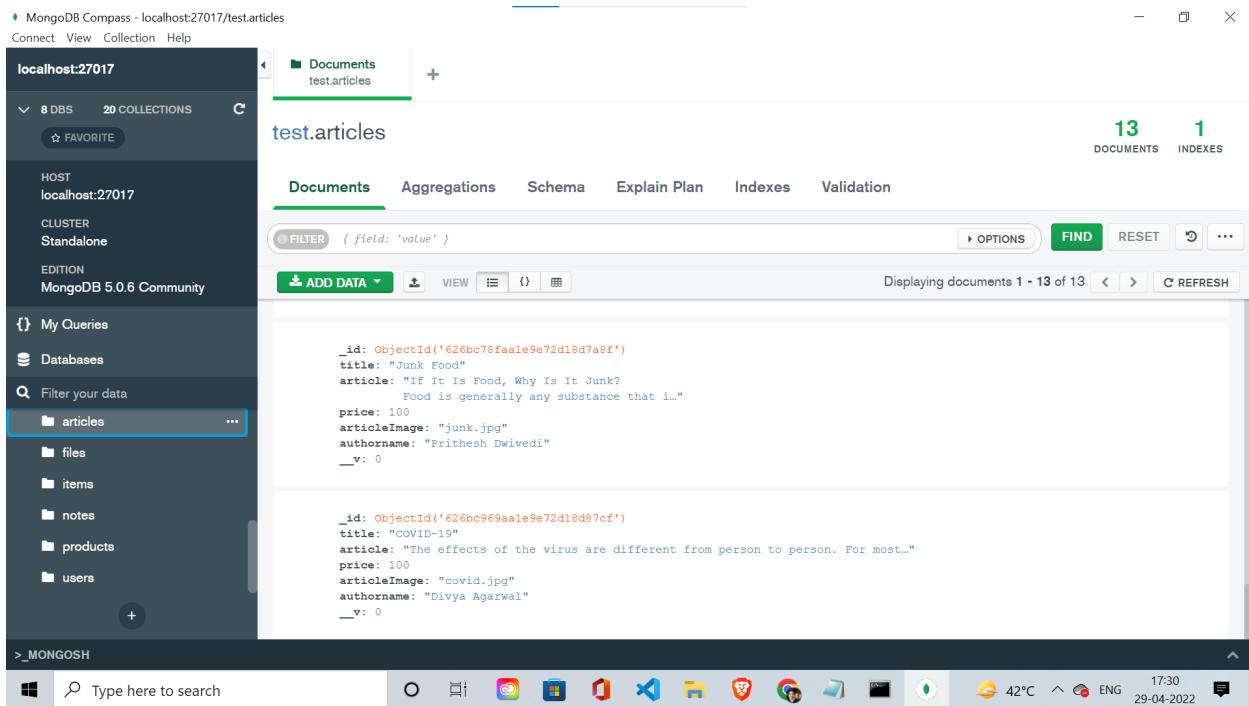
**Document 2 (Right Instance):**

```
_id: ObjectId('626aa686e88aa1b96dca4ec1')
name: "Marc Spector"
email: "marcspector@gmail.com"
password: "$2a$10$7738mUIB7c.WfL6rQ8NV.ou4ydPMcTHSAmuUMFl4lyYs./zx0J6e"
__v: 0
```

**Document 3 (Right Instance):**

```
_id: ObjectId('626bd2c0aa1e9e72d18d9c15')
name: "Steven Grant"
email: "stevenlwthav@gmail.com"
password: "$2a$10$vaVmx/UFNdAdl4t03Mti9o3KRgHmply.CbJptkehNPZ7FeeaLVzVv"
__v: 0
```

# Article Information in MongoDB Compass:



MongoDB Compass - localhost:27017/test.articles

localhost:27017

HOST localhost:27017

CLUSTER Standalone

EDITION MongoDB 5.0.6 Community

My Queries

Databases

Filter your data

articles

files

items

notes

products

users

test.articles

13 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

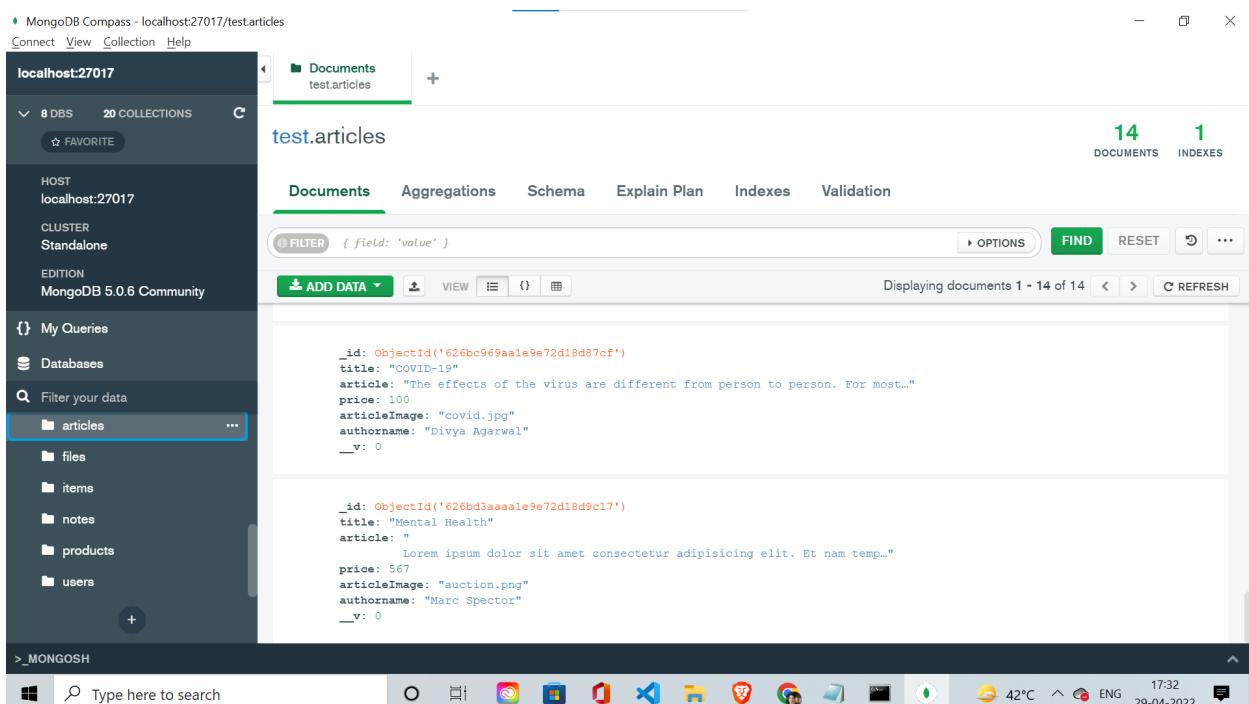
FILTER { field: 'value' }

ADD DATA VIEW

Displaying documents 1 - 13 of 13

```
_id: ObjectId('626bc78faale9e72d18d7a8f')
title: "Junk Food"
article: "If It Is Food, Why Is It Junk?
Food is generally any substance that i..."
price: 100
articleImage: "junk.jpg"
authorname: "Prithesh Dwivedi"
__v: 0
```

```
_id: ObjectId('626bc969aa1e9e72d18d87cf')
title: "COVID-19"
article: "The effects of the virus are different from person to person. For most..."
price: 100
articleImage: "covid.jpg"
authorname: "Divya Agarwal"
__v: 0
```



MongoDB Compass - localhost:27017/test.articles

localhost:27017

HOST localhost:27017

CLUSTER Standalone

EDITION MongoDB 5.0.6 Community

My Queries

Databases

Filter your data

articles

files

items

notes

products

users

test.articles

14 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' }

ADD DATA VIEW

Displaying documents 1 - 14 of 14

```
_id: ObjectId('626bc969aa1e9e72d18d87cf')
title: "COVID-19"
article: "The effects of the virus are different from person to person. For most..."
price: 100
articleImage: "covid.jpg"
authorname: "Divya Agarwal"
__v: 0
```

```
_id: ObjectId('626bd3aaa1e9e72d18d9c17')
title: "Mental Health"
article: "
    Lorem ipsum dolor sit amet consectetur adipisicing elit. Et nam temp...
price: 567
articleImage: "auction.png"
authorname: "Marc Spector"
__v: 0
```

# TECH STACK USED

1. **MONGODB**, a document database which stands out among many SQL and No-SQL Databases because it is document-oriented and hence aligns with JavaScript much better
2. **Express JS**, a NODE JavaScript framework
3. **React JS**, a client-side JavaScript framework
4. **Node JS**, a premier JavaScript server used for making Express API
5. **Bootstrap CSS**, a free and open-source CSS framework directed at responsive, mobile-first front-end web development.
6. **Styled-Components**, a NPM package compatible with React JS

**GITHUB ID:** <https://github.com/JUNKIEJAM/e-auction-website>