The productApp Application

Introduction

The Product App is an Information management web application where you can add your own products in the page after logging in. You can add the image, product name, description, price, and rating. You can load the existing products from DB. You will be able to delete a product from the page too.

Some jokes are displayed in the starting of the page which will change every time you refresh the page.

Some animation information is displayed in the section of the page using Kitsu api .

Front End

Front End of the Project is developed using HTML, CSS, and JavaScript.

Planning to change the Front End to React later in future, so that it will be a complete MERN full stack project.

It contains a Nav Bar, joke cards, animation cards and product cards containing product information.

You need to Register and Login to see the home page.

You will be able to load the existing products, add or delete a product from the last section of the page.

To add a new product to the page – there is an ‘Add Product’ form where you can give the details and click on ‘Add Product’ button. Then the product card will be added below.

Back End

The Back end of this project is developed using node.js – the runtime environment for java script and the framework express.js. Data base used is mongoDB – NoSQL database. The mongoose library is used to access and manage mongoDB.

Have 2 Schemas

1. userSchema :

username: { type: String, required: true, unique:true},

password: { type: String, required: true }

1. prouctSchema :

productSchema = new mongoose.Schema({

p\_url: { type: String, required: true },

p\_name: { type: String, required: true },

p\_desc: { type: String, required: true },

p\_price: { type: String, required: true },

p\_rating: { type: String },

}

Authentication is done using ‘jsonwebtoken’ (jwt) and bcrypt.js. in the back end. And authenticating in the front end using the token stored in local storage.

Back end alone can be tested using postman or insomnia tool by sending http requests containing JSON data. You can verify the response received also.

Product Information will be stored in the database.

Whenever you are adding a new product, it will added and when you delete it will be deleted from the respective collection from the DB.

Deployment

The deployment will be done in Heroku or any other free hosting platform in future.

Scalability and Security

This product is Secure as it has used the authentication mechanism using jwt token and the passwords are hashed using bcrypt and stored in the data base.

This application Scalable in the sense of data storage as MongoDB in the backend is easy to scale huge data. Adding more products or widgets in the front end is easy as flexible css elements are used in the front end. Will be more scalable in case of front end when it is changed to React framework in future.

Testing

You can use testing backend by postman or insomnia. Front End can be tested from browser.

Tested end to end from UI to backend and DB.

Screen shots

A screenshot of a login page

Description automatically generated

A screenshot of a login screen

Description automatically generated

A screenshot of a computer

Description automatically generated





