**WEBSITE INTRODUCTION:**

Created a robust Bakery E-Commerce web application using the MERN (MongoDB, Express.js, React.js, Node.js) stack. The app will feature multiple user roles (guest, admin, user), authentication using JWT(Json Web Token) and encrypted passwords, product management with brands and categories, image uploading to Firebase, order placement with tracking functionality, and user order tracking.

**User Roles:**

• Guest: for unauthenticated users

• User: Authenticated customers who can add products to a cart, place orders, and track orders.

• Admin: Authenticated administrators with access to product management, Data entry related to brands, categories and products.

**Authentication:**

• Implement user registration and login using JWT for secure authentication.

• Store hashed and salted passwords in the database for enhanced security.

**Email Notifications:**

• When an order is placed, the admin is notified via email, including the tracking ID

**Review Component:**

User can give review for any product.

Admin can handle rating of any product.

Image Uploading:

• Integrated Firebase for image storage.

• Allow uploading of images for brands, categories, and products.

• Implemented multiple image uploads for products

**Technologies used:**

**For front-end:**

* React js
* HTML jsx
* CSS
* React-bootstrap
* React Routing by React Router DOM
* Sweetalert2
* Vite React
* Axios
* React-Stars
* JS-Cookie
* React Icons

**For Backend:**

* Express js
* MongoDB
* Node js
* FireBase
* JSON Web Token JWT
* Hash Function bcryptjs for encryption and decryption
* ThunderCloud For API Testing
* Mongoose for schema design and database connection
* Nodemon in developmet phase for backened testing
* Nodemailer for sending email to users

**Hosting:**

* Cyclic
* Github repository

**REST APIs:**

**Brand:**

router.post('/create-brand',CreateBrand)

router.get('/get-brand-by-name',BrandByName)

router.get('/get-all-brands',AllBrands)

router.get('/get-brand-by-id',BrandByID)

router.put('/update-brand',UpdateBrand)

router.delete('/delete-brand',DeleteBrand)

**Categories:**

router.post('/create-category',CreateCategory)

router.get('/get-all-categories',AllCategories)

router.get('/get-category-by-name',CategoryByName)

router.get('/get-category-by-id',CategoryByID)

router.put('/update-category',UpdateCategory)

router.delete('/delete-category',DeleteCategory)

**Product:**

router.post('/create-product', CreateProduct);

router.get('/get-product-by-name', ProductByName);

router.get('/get-product-by-brandname', ProductByBrandName);

router.get('/get-product-by-categoryname', ProductByProductCategoryName);

router.get('/get-product-by-id', ProductByID);

router.get('/get-all-product', AllProduct);

router.put('/update-product', UpdateProduct);

router.delete('/delete-product', DeleteProduct);

**order:**

router.post('/place-order', placeorder)  //

router.get('/get-all-orders', allOrders)   //all orders

router.get('/track-order/:\_id', trackOrder)

**user:**

router.post('/login', Login)

router.post('/signup', Signup)

router.get('/getalluser', getAllUsers)

router.get('/getuserbyid', userByID)

router.get('/getuserbyemail', userByEmail)

router.delete('/delete-user', deleteUser)

router.put('/update-user', updateProfile)

**Project Link:**

Live Link: <https://ruby-energetic-pike.cyclic.app/>

For code Github Repository: https://github.com/Mahnoor-Yameen/Project-MERN

**My Profile:**

Linkedin Profile: <https://www.linkedin.com/in/mahnoor-yameen>

Github Profile: <https://github.com/Mahnoor-Yameen>