Saaspect

The Scenario

A node application needs to build using express framework to serve the front with required API's. The application should have the ability to run CRUD operations using Mongo DB. There are basically two entities around which all these operation with revolve namely 'Customer' and 'edibles'. Basic schema needs to be built around them. The basic functionality which this app should perform is providing the ability for the 'Customer' to purchase the items and consequently saving record in the Database.

Details

Customer –

This Entity will have 4 routes i.e. {Sign In, Sign Up, Purchasing Edibles and check if certain edible was bought earlier or not}.

- SIGN UP –
  This will accept two variables namely Email and Password and accordingly create a record in the Database.

- SIGN IN –
  This will again accept those two variables but on success match will generate a JWT token with customer object id as payload, this token will be sent in response.

- Purchase Edibles –
  This will be a POST route accepting an 'ID' and the 'quantity' in body and that 'ID' will be the Object ID of one of the Edibles from the collection Edible.

  Before the entry JWT should be validated then accordingly an array should be maintained for the 'customer' named *'Purchases'* which will contain an object including *'id'* of edible along with the *'quantity purchased'* and the *'date'* at that time.

  For e.g. – Purchases: [{edible_id, quantity, date}]

  On every new purchase, a new object like this should be pushed in this array and will decrease that quantity of Edible. In response of this route, send a total sum of amount billed upon that purchase, the price field will be available in Edible collection

- Check Purchase –
  This will be a dynamic route accepting an id in parameter which will be the object id of any Edible and this route will be only accessible through JWT. Get the customer object id from the JWT and find out if the purchase of the edible was done or not in the past and return true and false accordingly.

Edible –

This entity Schema should have 5 fields in Schema namely – {name, type, price, quantity, updated} and will have 3 routes i.e. {fetchEdibles, createEdible, updateQuantity}

- fetchEdibles – This is a GET request which in response will send array of object containing name and their respective quantity of edibles and having quantity > 0.
- createEdible - This will be a POST route accepting all the information from the body and using it perform a create operation in the database. On the conditions like already existing or data missing, send and response with status code accordingly.
- UpdateQuantity - - This will be a POST route accepting an 'id' and the 'quantity' in body and that id will be the Object id of one of the Edibles and perform an update operation to only increase the quantity of that particular edible.

There are some core requirements that this app must have (at absolute minimum):

- Proper use of Error Handling.
- Sending the right status code in response.
- Separator controller folder to be used for the route operations.
- Proper commenting above the respective route about its functionality in one line.

What you should submit

You will need to upload two files to Google form:

- A .zip file containing your web project.
- A video of you calling the API's in any application like Postman and displaying the result.

The main element of this assessment is the development of Node App based on the how efficiently and precisely you use the technologies.

Link to the form - https://forms.gle/oie21gDrAor2jm797