

# SCHOOL OF COMPUTING (SoC) ST0503 Back-end Web Development 2021/2022 SEMESTER 2 ASSIGNMENT 2

Admission Number: P2100803

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Class: DAAA/FT/1B/01

Course: Diploma in Applied AI and Analytics

## Content Page:

- 1. Instructions on how to setup the project on the lecturer's laptop [FOR BOTH BACKEND SERVER AND FRONT-END SERVER]
- 2. MYSQL database tables created and their linkage (including foreign keys)
- 3. Modified APIs screenshots from postman (can be accessed by importing postman json file from zip folder

### 1. Instructions on how to set up the project:

- 1. Open MYSql Workbench and open the .sql script file from the downloaded project folder in the workbench. Run the file by clicking the first lightning symbol in the workspace area and refresh the schemas on the left to see the new database
- 2. Double click on the database 'sp\_it' and then double click on 'Tables' to see the various table names. To view the actual tables double click on the table names and click the first lightning icon in the workspace on the left again
- 3. To start both servers and activate the website, right click on the parent folder and click 'Open Integrated Terminal'. Then type 'npm start' on both powershells to start the front end and backend servers simultaneously.
- 4. Go to your desired web browser (Google Chrome recommended) and type 'localhost:3001' in the url. The website will load and show.

### Details and steps to navigate the website:

- 5. There are 5 main pages on this site:
  - i. index.html (main page),
  - ii. promotion page,
  - iii. category page,
  - iv. products page AKA Store,
  - v. Profile Page and
  - vi. Contact Page
- 6. If you click on the Profile Page you will see the Login Button at the top. Click it to login in as a registered Customer.
- 7. To create a new account, click on the Register Account Link and proceed to fill in your details
- 8. To login as Admin, click on the Admin Login Link to login in with Admin credentials and access the admin interface
- 9. In the store page, click on the view button under any product to view the product information, description, reviews and ratings
- 10. Go back to the store page and click on the reviews button under product to view it's specifc reviews from customers.
- 11. If you wish to post a review about the product, you need to login in with Cutomer credentials and then go back to the reviews page from the store page to post a review about the specific product of choice.
- 12. To update your categories of interest, you can simply go to the profile page, scroll to the bottom and check the box belonging to the desired category of interest (refer to the category page for visual reference if required)
- 13. For admins, login in with admin credentials. When you reach the admin inteface, you can click on add product to add a product and to the check if the product is indeed added, logout of the admin interface and login to the general page to view the products page. (Same for adding categories and to check go to the categories page.
- 14. For registered users, you can login in with customer credentials and go to the profile page to view you details and update your profile picture. [Advanced Feature]

# 2. Tables in the SQL Workbench to support functionalities such as user registration, publication of product info, insertion of products and user reviews.

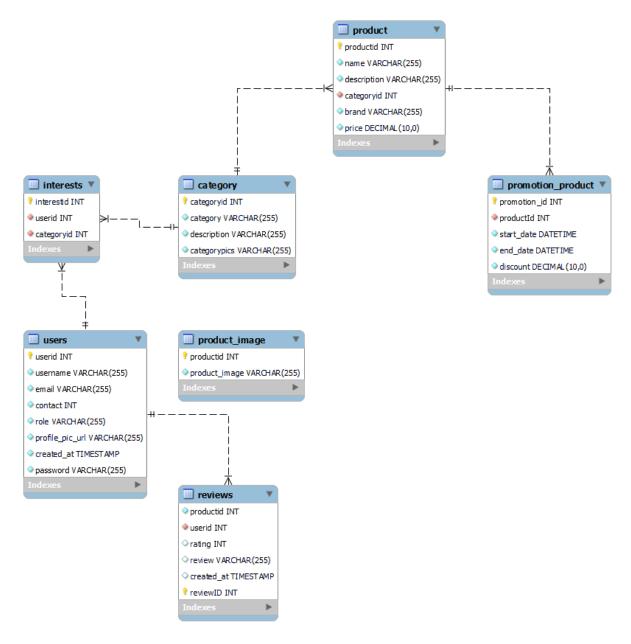
Context:

Background

SP IT! is considering setting up an online e-store to allow the public to purchase IT products it is selling. Before it launches its online e-store, it requires a web application to computerize its inventory management module and also allow the public to view the product details online.

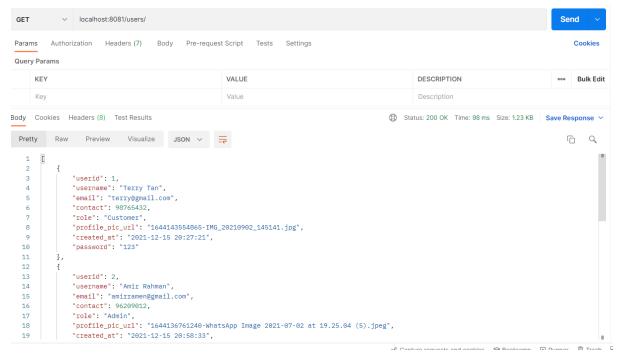
As such, SP IT! has tasked you to design the backend API Specs the website. The API specs would support functionalities such as user registration, publication of product info, insertion of products and user reviews

## ER Diagram:

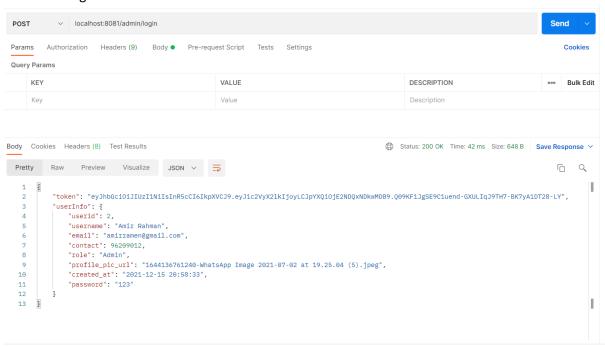


### 3. Proof of APIs

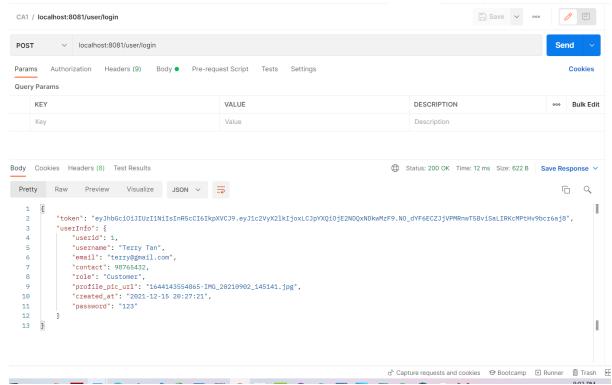
### API 1:



### API 2: Getting token for admin credentials



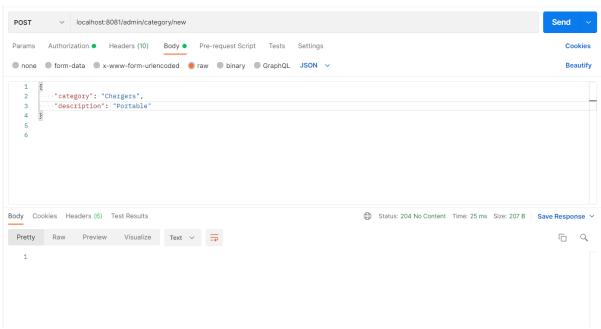




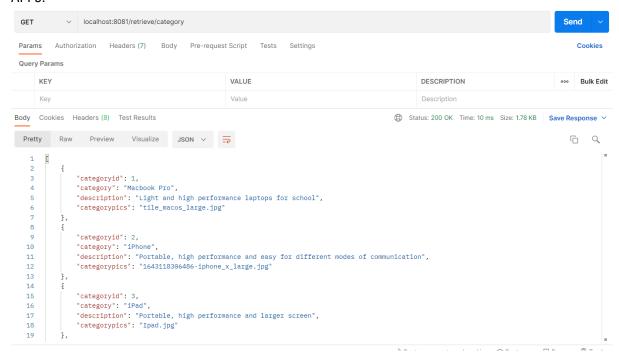
# API 4: Registering of user and creating of admin

```
app.post("/users/", (req, res, next) => {
 User.insertuser(req.body, (error, userID) => {
   if (error) {
     console.log(error);
      if (error.code === "ER_DUP_ENTRY") {
      return res.status(422).send()
      res.status(500).send("What is the error?");
     return;
   res.status(201).send({ userID });
app.post("/admin/", (req, res, next) => {
 User.insertadmin(req.body, (error, userID) => {
   if (error) {
     console.log(error);
      if (error.code === "ER_DUP_ENTRY") {
       return res.status(422).send()
      res.status(500).send("What is the error?");
      return;
    res.status(201).send({ userID });
```

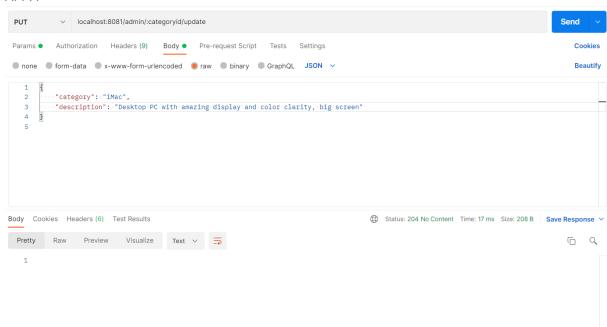
### API 5:



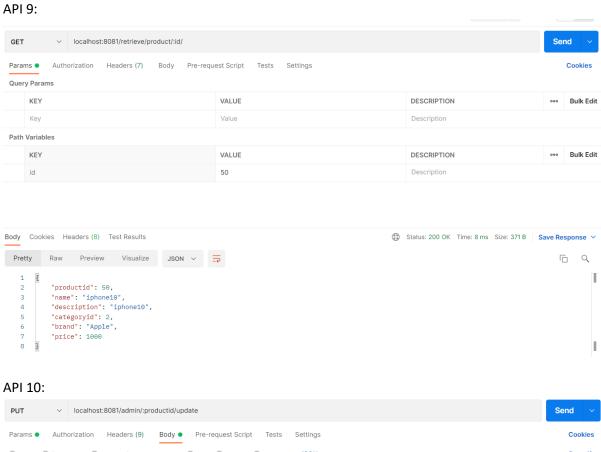
### API 6:

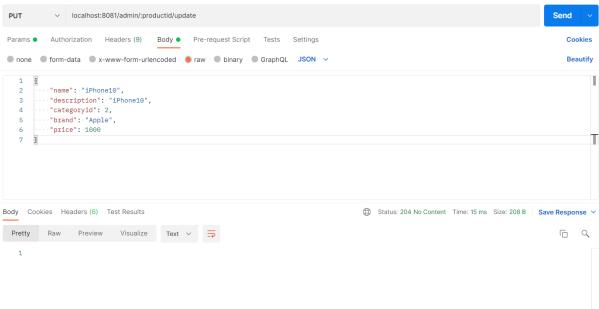


### API 7:

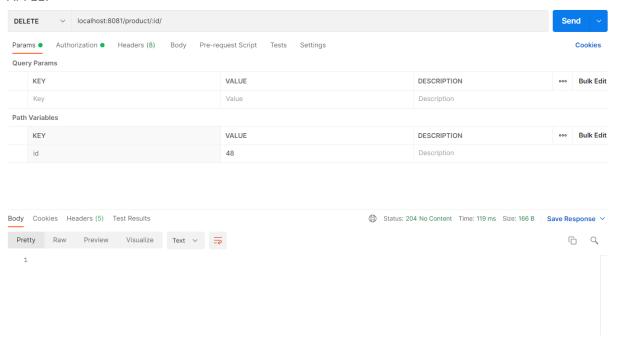


### **API 8:**

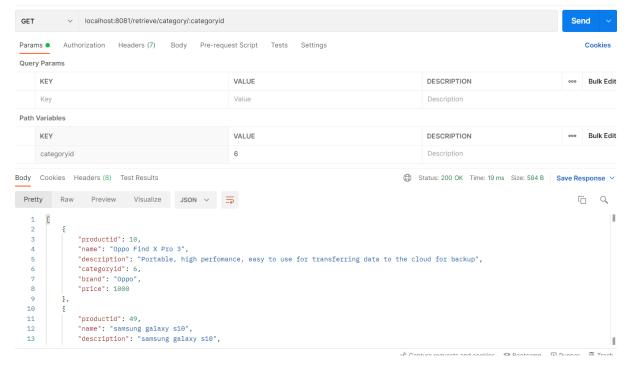


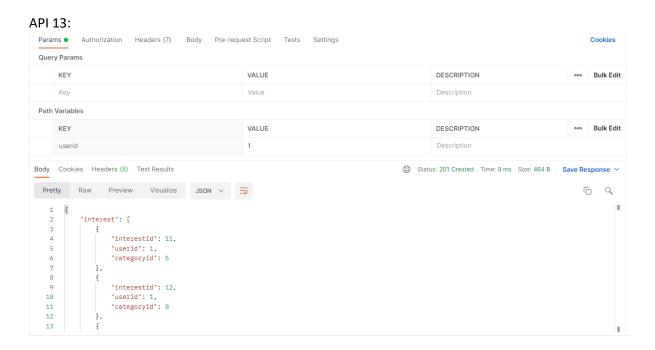


### API 11:

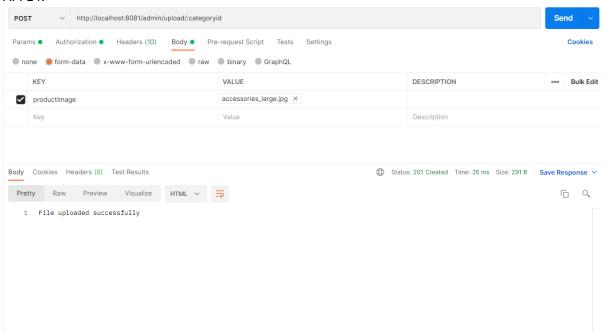


### API 12:





### API 14:



Several endpoints that have been added and modified cannot be shown here as they only work from the website. So, to test, test with the website.