CONESTOGA COLLEGE INSTITUTE OF TECHNOLOGY

AND ADVANCED LEARNING.

Doon valley Drive, Kitchener.

Database Connectivity using Advanced Controls.

Group Project

Maw & Paw (Pet Supplies Store)

UNDER THE GUIDANCE OF

PROFESSOR JOHN PRINZ

Team Members:

Aditya Venkatesh Prasad,

Megha Kashinath Bhairanatti,

Pramod Kumar Dugyala,

Rajith Venu Gopal.

What website to develop?

Maw & Paw started off as an excuse to have cute photos of Dogs and Cats on the website. It then became a fully fledged pet supplies store with details like name, description, ratings, price, and ingredient tags.

We also added "SALE" label on products which are on sale, so the customers are more likely to check that product.

There is a search box which will suggest all the products with matched keyword.

Types of Data stored in MongoDB:

As the primary data for our application is Pet Supplies, we had to store all the details related to the products like Name, Image, Description, etc., which are of different types. Below, is the list of fields and their data types that we stored in the DB.

- Name, Image, and Description are of String type.
- Ingredients and About_items are of String Array type.
- On_Sale is of Boolean type.
- Price and Rating are of Number type.

How will the user interact with the data and which REST API requests will you implement?

1. GET "/petitems" will get all the pet products from the Database and is used to render the list page.
2. POST "/petitems" will create a new product (push data in the Database). This API is used in the create page where admin can add new product.
3. GET "/petitems/:petitemid" will fetch the details of the specified product using the product ID. This API is used in the details page to show all details of the product.
4. PUT "/petitems/:petitemid" will update the details of the specified product using the product ID. This API is present in create page where admin can modify the details of the product.
5. DELETE "/petitems/:petitemid" will remove the product entry specified by product ID from the Database. This API is present in the details page.

What role will Angular play in your project?

- Since we have reusable User Interface parts, we used Angular to develop reusable components like Create, Framework, Rating-stars and Page-header components.
- We have used two-way data binding in Create and Framework components.

- Any change to a document's aesthetics like page navigation (routing) and loop iterations(ngFor) etc. is DOM Manipulation. We used these operations for multiple functionalities across the website.
- We are using several HTTP requests to get different web pages, like getting the list page through GET "/petitems" request for example.

Team Contributions:

Aditya Venkatesh Prasad:

Created and worked on **About and Homepage angular components.**

Megha Kashinath Bhairanatti:

Created and worked on **Details-page angular component.**

Pramod Kumar Dugyala:

Created and worked on **Create angular component.**

Rajith Venu Gopal:

Created and worked on **Pet-list angular component.**

Common:

Collectively, the team worked towards

- Creating **Framework, Page-header, and Rating-stars angular components.**
- Connect **to Atlas Cloud MongoDB** and populating the datasets.
- Create required **mongoose Schema** for the project.
- The implementation of **Search feature**.

Conclusion:

This project helped us cement all the concepts we learnt during this course period. It was a lot of fun working together, even though we had ups and downs we finally completed this project as we initially thought! We made use of all the Work From Home starter kits including Zoom calls, Trello boards, cloudinary (A cloud based Image managing tool) and collaborated in GitHub.

Thank you, Professor John Prinz, for your guidance, support and encouragement.