**COMP229 – Web Application Development**

Mid-Term Test

Week 8 (2023)

Value 15%

Mid-Term Test **Maximum Mark: 100**

**Overview**: Using your knowledge of **NodeJS, ExpressJS, MongoDB** and **Angular**. Using the Web App Template provided, complete the **DressStore** web app that you will share on GitHub. Your web app already includes basic navigation controls, The Product page, Add Page. Your task is to complete the code that is missing from the routing files and the Product List page and services so that a user can **Add**, **Delete** and **Edit** any Product item from the Database.

**Project Setup:**

* Rename the Web App Template provided to COMP229-M2023-MidTerm-[YourStudentID]. (e.g. COMP229-M2023-MidTerm-300929668).
* Using your MongoDB **URI** form your Assignment2 Mongo Database on **MongoDB Atlas.** You will need to change the **URI** variable in the db config file (**Product/app/config/db.config.js**) to point MongoDB Atlas.
* You will need to add some example Product data in the database when you have completed the Test before submission to ensure that your app. is working.

**Instructions:**

**Frontend - client**

1. In the product-list folder, the **products-list.component.html** page already lists your dresses. Your job is to insert the Remove All **Button**, such that when users click on that button all products will be deleted.
2. In the product-details folder, the product-details.component.html page insert the appropriate **Buttons** for the code to **Edit, Unpublish, Publish, Delete, Update (2 Marks: GUI, 13 Marks: Functionality):**

**Backend – Product.**

**Product/app/routes/product.routes.js**

1. The Product Routing File (**routes/product.routes.js**) already has a route working to find all the products in the products collection and render your product**s-list** page. Your task for this section is to complete the **logic i.e the verbs (method) to execute the following:** (63 Marks: Functionality).:
   1. Create a new product. (10 Marks: Functionality).
   2. Retrieve all Products. (15 Marks: Functionality).
   3. Retrieve all published Products**.** (20 Marks: Functionality).
   4. Retrieve a single Product with id. (8 Marks: Functionality).
   5. Update a Product with id
   6. Delete a Product with id
   7. Delete all Products

**Frontend and Backend Connection (Consuming the API)**

1. Open the client folder, navigate to the product.service.ts in the **client/src/app/service/product.service.ts.**

The Data Service have been included. This service will use Angular HttpClient to send HTTP requests. The functions include CRUD operations, add the appropriate finder method for each CRUD operation.

**SUBMITTING YOUR WORK**

Your submission should include:

1. A zip archive of your website’s **Project files**.
   * Ensure to Name your project files COMP229-F2020-Midterm-[YourStudentID].zip e.g. COMP229-M2023-Midterm-300818557.zip
   * Please **do not** create a RAR archive of your project files.
2. A link to your GitHub repository.
   * Ensure to Name your GitHub repo: COMP229-M2023-Midterm-[YourStudentID] e.g. COMP229-M2023-Midterm-300818557)

# This exam is weighted **15%** of your total mark for this course. This is an open-book exam.

Students may use the Internet to view the instructor’s GitHub repos and their own work.

# Students may also access course PowerPoint presentations or the Textbook outlined in the Course Syllabus.

Use of a search engine is permitted.

# However, use of external code is not allowed for this exam. Please check with your instructor if you are unsure.