

COMP229 – Web Application Development

Assignment 2

Dress Store Application – Node.js, Express REST APIs & MongoDB

Due Week #7 (June 23rd, 2023) @ midnight

Value 15%

Dress Store – Node.js, Express REST APIs & MongoDB

Maximum Mark: 100

Overview: Create the Node.js Express exports REST APIs that interacts with MongoDB Database using Mongoose ODM for a Dress Store application (Note: The Front-end of the application is not included in this Assignment).

Instructions :

The Dress Store application:

1. Using MongoDB database, create:(**25 Marks**):

- a. A database by name DressStore.
- b. Create the following collections with their respective property. (5 Marks: Functionality).

I. products

name: string
description: string
price: number
published: Boolean
category: string

II. categories

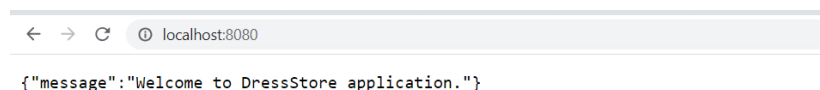
name: string

the categories of products to be included are Men, Women, teens.

- c. Obtain your connection string (url or uri)
- d. Provide the screen snapshot of your MongoDB database showing the above steps from 1a – c.

2. Using Visual studio code as the IDE: (**25 Marks**)

- a. create a node.js App for the DressStore by setting up the Express web server. Ensure to install all the necessary modules: express, mongoose, cors e.t.c.
- b. Run the app and provide a screen snapshot of it running in the browser as follows:



3. After creating the Express web server next: **(30 Marks)**
- Add the configuration for the MongoDB database.
 - Create the product model with Mongoose.
 - Write the controller.
 - Define the routes for handling all CRUD operations.

Below is an overview of the REST APIs that will be exported:

Methods	Urls	Actions
GET	<u>api/products</u>	get all Products
GET	<u>api/products/:id</u>	get Product by <u>id</u>
POST	<u>api/products</u>	add new Product
PUT	<u>api/products/:id</u>	update Product by <u>id</u>
DELETE	<u>api/products/:id</u>	remove Product by <u>id</u>
DELETE	<u>api/products</u>	remove all Products
GET	<u>api/products?name=[kw]</u>	find all Products which name contains ' kw '

4. a) Test the REST APIs using Postman, Thunder client or any tool you are familiar with. e.t.c.
b) Provide the screen snapshot of the test. **(20 Marks)**

SUBMITTING YOUR WORK

Your submission should include:

- A zip archive of your Dress Store Project files
- A link to GitHub
- A word doc. Showing the snapshots

This assignment is weighted **15%** of your total mark for this course.

Late submissions:

- 20% deducted for each day late.