

COMP229 – Web Application Development

Assignment 2

Online Market Application – Node.js, Express REST APIs & MongoDB

Due: Please refer to eCentennial

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

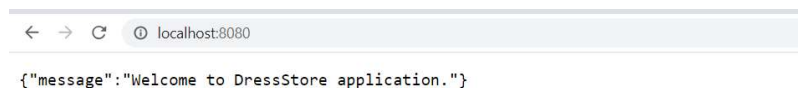
Maximum Mark: 100

Overview: Create the Node.js Express exports REST APIs that interacts with MongoDB Database for an Online Market application (Note: The Front-end of the application is not required for this Assignment).

Instructions :

The Online Market Application:

1. Using MongoDB database, create: **(25 Marks)**
 - a. A database by name **Marketplace**
 - b. Create the following collection with their respective property. (5 Marks: Functionality).
 - I. **product**
 - name: string
 - description: string
 - price: number
 - quantity: number
 - category: string
 - 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 Marketplace by setting up the Express web server. Ensure to install all the necessary modules: express, mongodb, 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)**
 - a. Add the configuration for the MongoDB database.
 - b. Write the controller.

- c. 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 <code>id</code>
POST	<u>api/products</u>	add new Product
PUT	<u>api/products/:id</u>	update Product by <code>id</code>
DELETE	<u>api/products/:id</u>	remove Product by <code>id</code>
DELETE	<u>api/products</u>	remove all Products
GET	<u>api/products?name=[kw]</u>	find all Products which name contains <code>'kw'</code>

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:

1. A zip archive of your Marketplace Project files
2. A link to GitHub
3. A word doc. Showing the screenshots

This assignment is weighted **10%** of your total mark for this course.

Late submissions:20% deducted for each day late.