# Webtech Lab FAT

# Binayak Bishnu

### 20BIT0155

## Question

Hi, BINAYAK BISHNU. When you submit this form, the owner will see your name and email address.

1

You are working with a database for the Q-Store ("We sell quilts, quartz and quinoa!"). The Q-Store has a database with the following collections products and customer reviews:

We suspect the customer "Hip Stirr" is making up reviews for products he has not tried. We want to see which products he has reviewed and which ones he reviewed that he also purchased so we can compare those lists

- a) Create a Form with appropriate CSS containing form elements or fields to get details from the user to create the above two collections and insert 10 documents in each collection to MongoDB.
- b) Using ExpressJS application in ordered list with CSS to List
- i. The name of all the products and description which has price between \$50 and \$150. Order the results by price in descending numerically.
- ii. The names of all the products that this customer reviewed. Do not list the same product twice, and list the products in ascending alphabetical order.
- iii. The names of all the products that this customer has both ordered and reviewed. Do not list the same product twice, and list the products in ascending alphabetical order

(Non-anonymous question ( )  $\Box$ 

### Code

HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>20BIT0155</title>
</head>
<body>
    <form id="myForm" name="myForm" action="/submitted" method="POST">
            <label for="customerid">Customer ID:</label>
            <input type="text" name="customerid" id="customerid" />
        </div>
        <div>
            <label for="customername">Customer:</label>
            <input type="text" name="customername" id="customername" />
        </div>
            <label for="customeraddr">Customer Address:</label>
            <textarea name="customeraddr" id="customeraddr"></textarea>
        </div>
        <div>
            <label for="customeremail">Customer Email ID:</label>
            <input type="email" name="customeremail" id="customeremail" />
        </div>
        <div>
            <label for="prodid">Product ID:</label>
            <input type="text" name="prodid" id="prodid" />
        </div>
        <div>
            <label for="prodname">Product:</label>
            <input type="text" name="prodname" id="prodname" />
        </div>
        <div>
            <label for="desp">Description:</label>
            <textarea name="desp" id="desp"></textarea>
        </div>
        <div>
            <label for="image">Image:</label>
```

```
<input type="file" id="image" name="image" />
       </div>
        <div>
            <label for="price">Price:</label>
            <input type="number" name="price" id="price" />
        </div>
       <div>
            <label for="reviewid">Review ID:</label>
            <input type="text" name="reviewid" id="reviewid" />
       </div>
       <div>
            <label for="review">Review:</label>
            <textarea name="review" id="review"></textarea>
       </div>
        <input type="submit" name="submit" value="Submit" id="submit" />
   </form>
   <div>
       <h3>Queries</h3>
       <form action="/part_i" method="GET">
            <input type="submit" name="part_i" value="Part i" />
       <form action="/part ii" method="GET">
            <input type="submit" name="part_ii" value="Part_ii" />
        <form action="/part_iii" method="GET">
            <input type="submit" name="part_iii" value="Part iii" />
   </div>
</body>
</html>
```

```
const express = require('express');
const bodyParser = require('body-parser');
const path = require('path');
const MongoClient = require('mongodb').MongoClient;
const app = express()
const u = bodyParser.urlencoded({ extended: false })
app.use(express.static(path.join(__dirname, 'html')))
app.use(express.static(path.join(__dirname, 'css')))
app.use(express.static(path.join(__dirname, 'assets')))
app.get('/20BIT0155.html', (req, res) => {
    res.sendFile(path.join(__dirname, '20BIT0155.html'))
})
app.post('/submitted', u, function (req, res) {
    var product = {
        product_id: req.body.prodid,
        name: req.body.prodname,
        description: req.body.desp,
        image: req.body.image,
        price: req.body.price,
    var customer = {
        customer_id: req.body.customerid,
        name: req.body.customername,
        address: req.body.customeraddr,
        email: req.body.customeremail,
    var review = {
        review_id: req.body.reviewid,
        customer_id: req.body.customerid,
        product_id: req.body.prodid,
        review: req.body.review,
    MongoClient.connect('mongodb://localhost:27017/', function (err, db) {
        if (err)
            throw err;
        else
           console.log("mongo connected!")
```

```
var dbo = db.db("QStore");
        dbo.collection('products').insertOne(product);
        dbo.collection('customers').insertOne(customer);
        dbo.collection('reviews').insertOne(review);
    res.send("<h1>Submitted!!!</h1>")
})
app.get('/part_i', u, function (req, res) {
    MongoClient.connect('mongodb://localhost:27017/', function (err, db) {
        if (err) throw err;
        var dbo = db.db("QStore");
        var query1 = { price: {$gte:25,$lte:150} };
        dbo.collection("products").find(query1).toArray(function (err, result)
            if (err) throw err;
            console.log(result);
            res.send(result);
            db.close();
        });
    });
})
app.get('/part_ii', u, function (req, res) {
    MongoClient.connect('mongodb://localhost:27017/', function (err, db) {
        if (err) throw err;
        var dbo = db.db("QStore");
        var query2 = { customer_id: '1234' };
        dbo.collection("products").find(query2).toArray(function (err, result)
            if (err) throw err;
            console.log(result);
            res.send(result);
            db.close();
        });
    });
})
app.get('/part_iii', u, function (req, res) {
    MongoClient.connect('mongodb://localhost:27017/', function (err, db) {
```

```
if (err) throw err;
        var dbo = db.db("QStore");
        var query3 = { customer_id: '1234' };
        dbo.collection("reviews").find(query3).toArray(function (err, result)
            if (err) throw err;
            console.log(result);
            res.send(result);
            db.close();
        });
        dbo.collection("products").find(query3).toArray(function (err, result)
            if (err) throw err;
            console.log(result);
            res.send(result);
            db.close();
        });
   });
})
app.listen(1234, () => {
    console.log('Running...')
```

### **Outputs**

### Server running

```
File Edit Selection View Go Run Terminal Help 208IT0155.js - Lab FAT - Visual Studio Code
                                                                                                                                                                       ⊳ ৸ Ⅲ …
                       tml > 🕝 html > 😌 body > 👽 boliaming
<input type="text" name="prodname"
                                                                                10 const u = bodyParser.urlencoded({ extended: false })
                                                                                app.use(express.static(path.join(_dirname, 'html')))
app.use(express.static(path.join(_dirname, 'css')))
app.use(express.static(path.join(_dirname, 'assets')))
                    <label for="desp">Description:</la>
<textarea name="desp" id="desp">
                                                                                      <label for="image">Image:</label>
  <input type="file" id="image" name</pre>
                  <div>
     <label for="price">Price:</label>
     <input type="text" name="price" ic</pre>
                                                                                       var product = {
    product_id: req.body.prodid,
    name: req.body.prodname,
                                                                                                 description: req.body.desp,
        DEBUG CONSOLE OUTPUT PROBLEMS TERMINAL

    □ powershell + ∨ □ 
    □ ^ ×

        Windows PowerShell
        Copyright (C) Microsoft Corporation. All rights reserved.
        Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
        PS D:\VIT\Semester_III\Web_Tech_A2;L17,18\WebTech_L17_18\Lab FAT> node 20BIT0155.js
🎖 master* → 01 21 🛇 0 🛆 0 o tabnine
                                                                                                                         Ln 17, Col 57 Spaces: 4 UTF-8 CRLF () JavaScript 👂 🚨
```

#### Form



#### Confirmation of submission



Submitted!!!

## Database created by nodejs

```
Complete the content of the content
```

#### Three collections also made

```
| Compaged their benefitionership benefitionership benefits of the state of the sta
```

#### First set of data

```
Enable MongoDB's free cloud-based monitoring service, which will then receive and display metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you and anyone you share the URL with. MongoDB may use this information to make product improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()

To enable free monitoring, run the following command: db.enableFreeMonitoring()

> show dbs

Store 0.80068

Goorg 0.80068

Corfig 0.80069

Source 0.80068

Out of 0.80068

Out o
```

## Ten data added by form via nodejs

```
| Company | Comp
```