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	Date: 13/12/2021	Exercise No: 5

PROBLEM STATEMENT(EVEN SRN's)

- Create an API that has a collection of books having different fields (such as book_id, book_name, book_price,book_authetc) for each book.
 Using HTTP methods GET method extract the data of book using book_id,
 Using PUT method update the price, Using POST method insert a new data and display the same. (Use MongoDb database)
- 2. Create student resume with details (such as name, dob, qualification, nationality etc...) using formdata and upload the student photo to the form.

OBJECTIVE

The objective of this exercise is to test the student on ExpressJS framework. It evaluates the student's knowledge of http request, respose objects. Creating RestFul API and web services

PREREQUISITE

In order to write this program, the student needs to understand the fundamentals of HTML and CSS. The student must be familiar with basic Javascript and express module.

PROGRAM

```
1)
const express = require("express");
const MongoClient = require("mongodb").MongoClient;
const app = express();
const dburl = "mongodb://localhost:27017/";

app.use(express.json());
app.use(express.urlencoded({ extended: true }));

app.get("/book", (req, res) => {
    MongoClient.connect(dburl, (err, db) => {
        if (err) {
            res.send(err);
        }
}
```



```
let dbo = db.db("book");
  dbo
   .collection("books")
   .find({})
   .toArray((err, result) => {
    if (err) throw err;
    res.send(result);
    db.close();
   });
});
});
app.get("/book/:id", (req, res) => {
 bookId = req.params.id;
 MongoClient.connect(dburl, (err, db) => {
  if (err) {
   res.send(err);
  }
  let dbo = db.db("book");
  dbo.collection("books").findOne({ book id: bookId }, (err, result) => {
   if (err) throw err;
   res.send(result);
   db.close();
  });
});
});
app.post("/book", (req, res) => {
 data = {
  book id: reg.body.book id,
  book name: req.body.book name,
  book_price: req.body.book_price,
  book auth: req.body.book auth,
 };
 try {
  MongoClient.connect(dburl, (err, db) => {
   if (err) {
    res.send(err);
   let dbo = db.db("book");
   dbo.collection("books").insertOne(data, (err, result) => {
```



```
if (err) throw err;
    res.send({ message: "Data added successfully", data: data });
    db.close();
   });
  });
 } catch (error) {
  res.send(error);
 }
});
app.put("/book/:id", (req, res) => {
 bookId = req.params.id;
 MongoClient.connect(dburl, (err, db) => {
  if (err) {
   res.send(err);
  let query = { book_id: bookId };
  let newValues = { $set: req.body };
  let dbo = db.db("book");
  dbo.collection("books").updateOne(query, newValues, { upsert: true }, (err, result) => {
   if (err) throw err;
   console.log("Updated document successfully");
   res.send(result);
   db.close();
  });
 });
});
app.listen(8081, () => {
 console.log("Server started");
});
2)
```

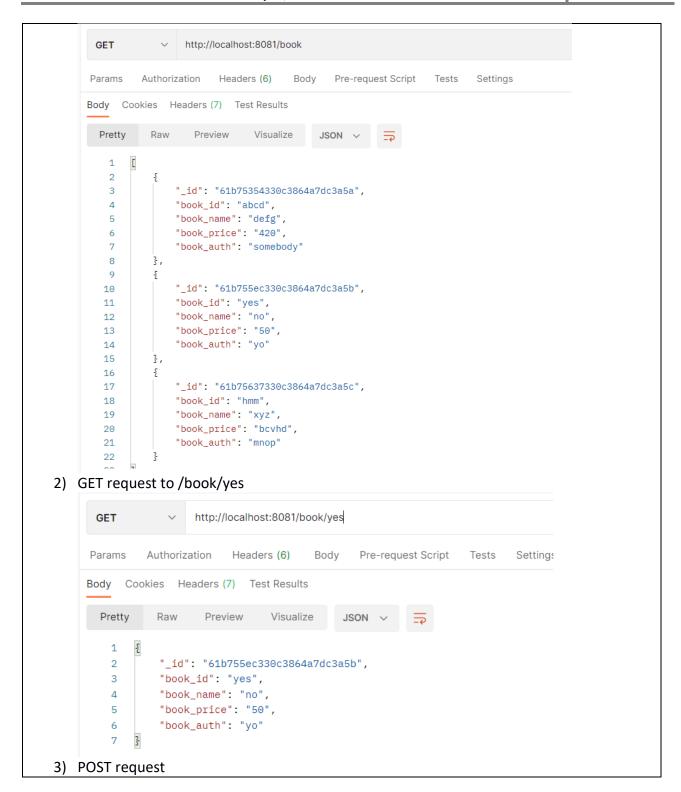


```
const express = require("express");
const bodyParser = require("body-parser");
const fileUpload = require("express-fileupload");
const fs = require("fs");
const app = express();
app.use(bodyParser.urlencoded({ extended: true }));
app.use(fileUpload());
app.get("/", (req, res) => {
 res.sendFile( dirname + "/index.html");
});
app.post("/", (req, res) => {
 if (req.files) {
  console.log(req.files);
 }
 let fileObject = req.files.image;
 let fileName = fileObject.name;
 let fileSize = fileObject.size;
 fileObject.mv("./uploads/" + fileName, (err) => {
  if (err) {
   console.log("Error : " + err);
  } else {
   res.send("FileName: " + fileName + " Uploaded Successfully to ./uploads
Directory\n");
  }
});
});
app.listen(8081, () => {
 console.log("Server started");
});
```

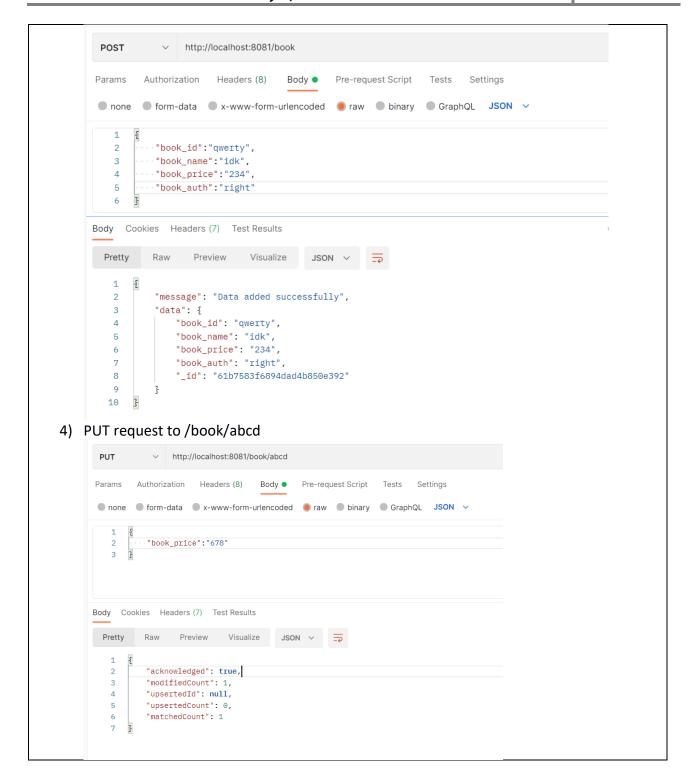
TEST CASES

1) GET request











SCREENSHOT OF OUTPUT
Student Resume
NAME: Adithya M
DOB: 02/08/2003
QUALIFICATIONS: Sleep
NATIONALITY: Uzbekistan
UPLOAD PICTURE: Choose File 1.png
SUBMIT
Ground Floor Gos Second Floor Gos Internet Captive Po
FileName : 1.png Uploaded Successfully to ./uploads Directory
✓ <u>m</u> uploads
2 1.png
index.html