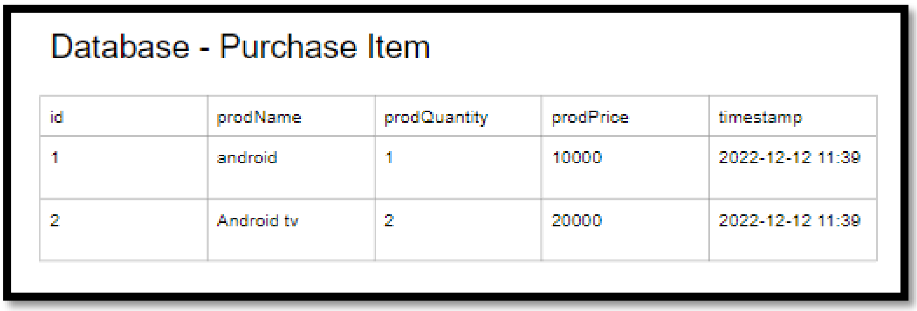
WPT Assignment – 11

Q) Design the purchase application



Database - Purchase Item

id	prodName	prodQuantity	prodPrice	timestamp
1	android	1	10000	2022-12-12 11:39
2	Android tv	2	20000	2022-12-12 11:39

MySQL Workbench

Create database -> create database purchaseitem;
Create Table into DB -> products

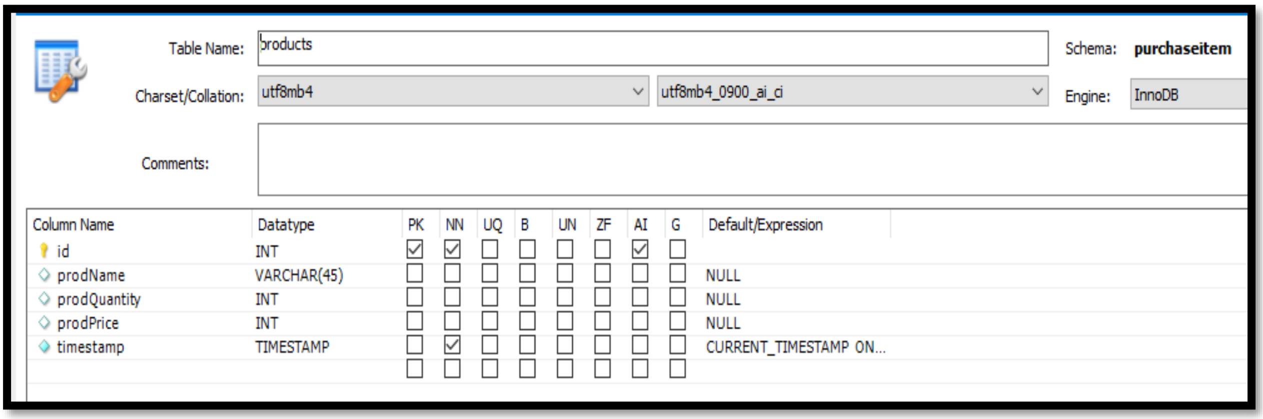


Table Name: products

Schema: **purchaseitem**

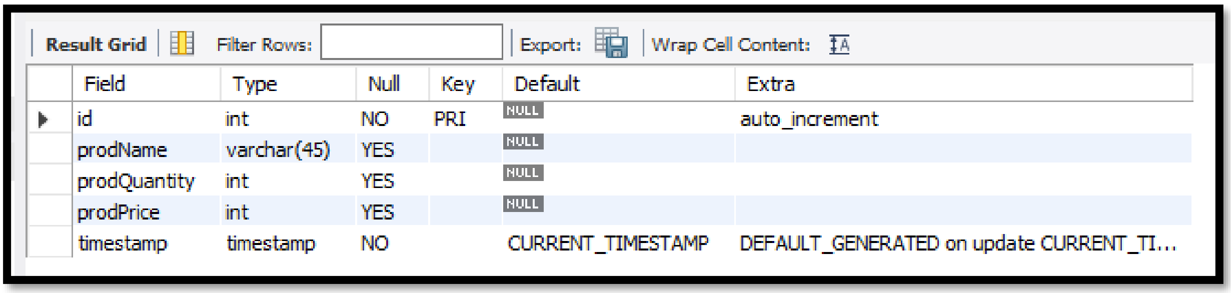
Charset/Collation: utf8mb4 utf8mb4_0900_ai_ci

Engine: InnoDB

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
id	INT	☑	☑	□	□	□	□	☑	□	
prodName	VARCHAR(45)	□	□	□	□	□	□	□	□	NULL
prodQuantity	INT	□	□	□	□	□	□	□	□	NULL
prodPrice	INT	□	□	□	□	□	□	□	□	NULL
timestamp	TIMESTAMP	□	☑	□	□	□	□	□	□	CURRENT_TIMESTAMP ON...
		□	□	□	□	□	□	□	□	

desc products;



Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
prodName	varchar(45)	YES		NULL	
prodQuantity	int	YES		NULL	
prodPrice	int	YES		NULL	
timestamp	timestamp	NO		CURRENT_TIMESTAMP	DEFAULT_GENERATED on update CURRENT_TI...

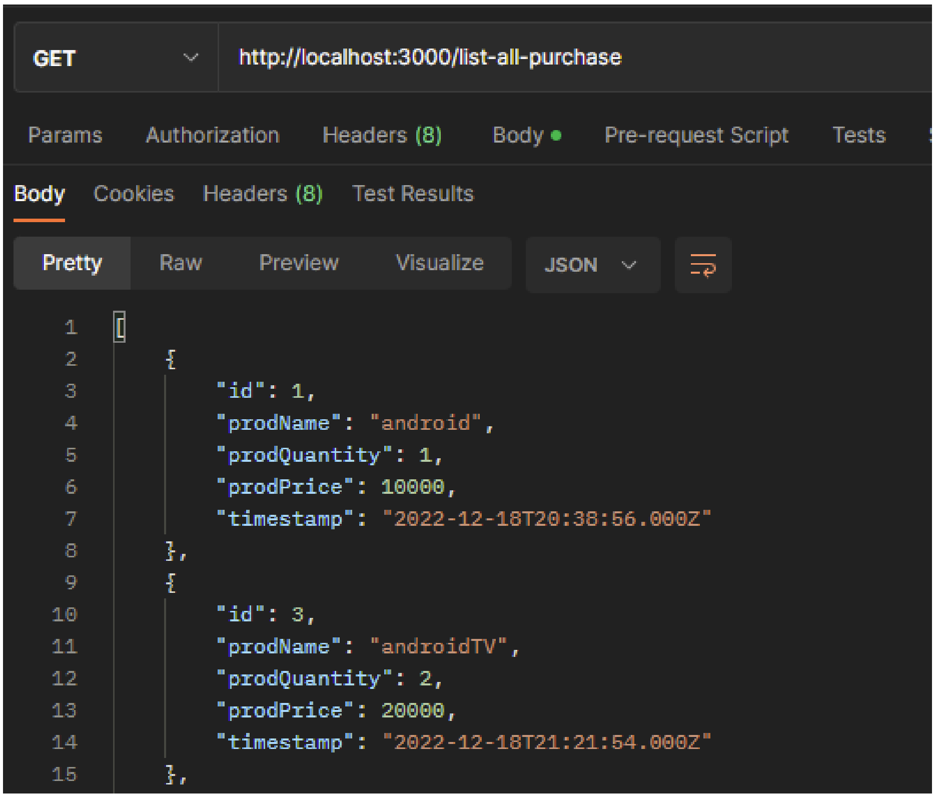
BACKEND API

get_post_api_backend.js

```
import { createConnection } from "mysql";
import Bluebird from "bluebird";
import Express from "express";
import cors from "cors";

const app = Express();
app.use(Express.json()); //Middleware
app.use(Express.urlencoded({ extended: true }));
app.use(cors());

let connectionUri = {
  host: "localhost",
  user: "root",
  password: "root@123",
  database: "purchaseitem",
};

/*http://localhost:3000/list-all-purchase */
app.get("/list-all-purchase", async (req, res) => {
  let connection = createConnection(connectionUri);
  Bluebird.promisifyAll(connection);

  await connection.connectAsync();

  let sql = `SELECT * FROM products`;
  let results = await connection.queryAsync(sql);

  await connection.endAsync();
  res.json(results);
});

app.post("/purchase", async (req, res) => {
  let connection = createConnection(connectionUri);
  Bluebird.promisifyAll(connection);

  await connection.connectAsync();
  let prodName = req.body.prodName;
  let prodQuantity = req.body.prodQuantity;
  let prodPrice = req.body.prodPrice;
  let sql = `INSERT into products(prodName,prodQuantity,prodPrice) VALUES (?,?,?)`;
  await connection.queryAsync(sql, [prodName, prodQuantity, prodPrice]);

  let output = { msg: "Products added Successfully" };
  res.json(output);
});
app.listen(3000);
```

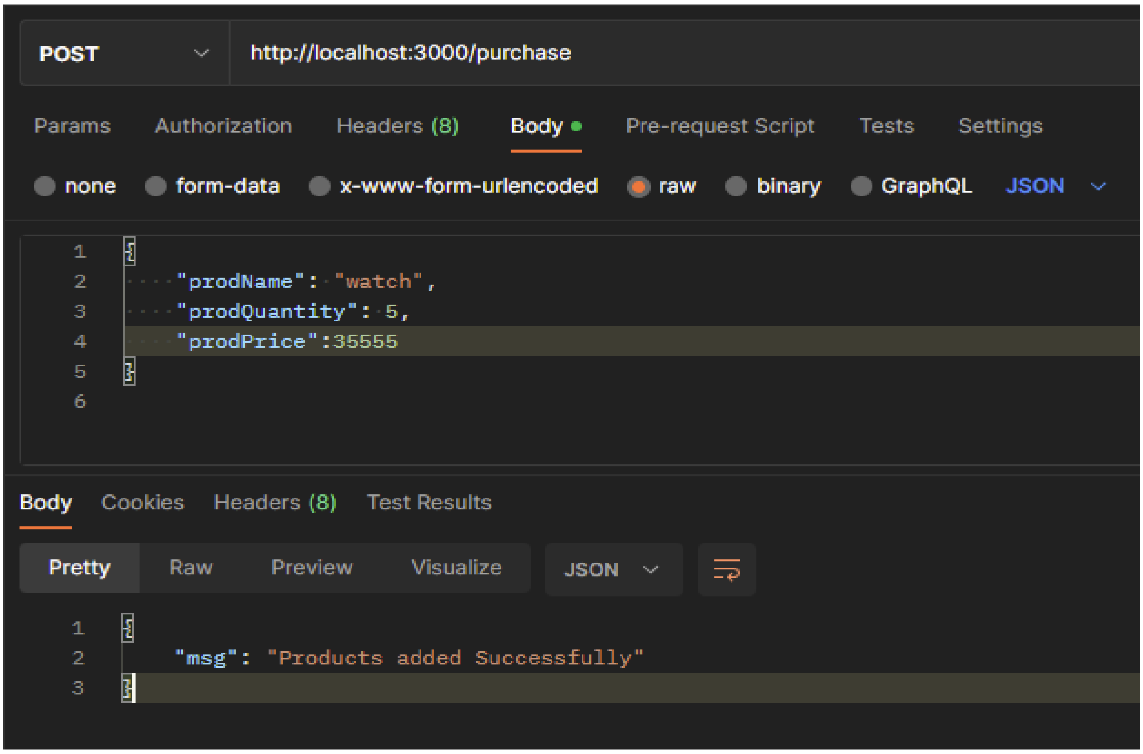
Output:

GET REQUEST



```
[
    {
        "id": 1,
        "prodName": "android",
        "prodQuantity": 1,
        "prodPrice": 10000,
        "timestamp": "2022-12-18T20:38:56.000Z"
    },
    {
        "id": 3,
        "prodName": "androidTV",
        "prodQuantity": 2,
        "prodPrice": 20000,
        "timestamp": "2022-12-18T21:21:54.000Z"
    },
```

POST REQUEST



```
{
    "prodName": "watch",
    "prodQuantity": 5,
    "prodPrice":35555
}
```

```
{
    "msg": "Products added Successfully"
}
```

FRONTEND API

1.html

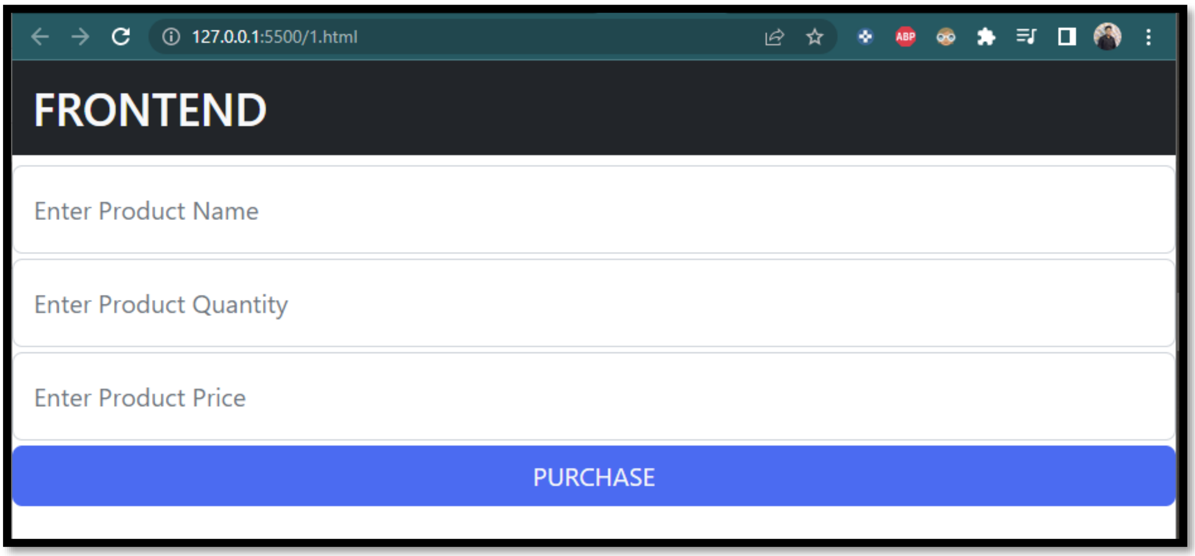
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <!-- CSS only -->
    <link
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css"
      rel="stylesheet"
      integrity="sha384-
rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2F9CUG65"
      crossorigin="anonymous"
    />
    <!-- JavaScript Bundle with Popper -->
    <script
      src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min.js"
      integrity="sha384-
kenU1KFdBIe4zVF0s0G1M5b4hcpxyD9F7jL+jjXkk+Q2h455rYXK/7HAuoJl+0I4"
      crossorigin="anonymous"
    ></script>

    <script src="https://cdn.jsdelivr.net/npm/axios/dist/axios.min.js"></script>
    <script src="2.js"></script>
  </head>
  <body>
    <div class="container-fluid p-0">
      <h1 class="bg-dark text-light p-3">FRONTEND</h1>

      <input
        type="text"
        placeholder="Enter Product Name"
        class="form-control form-control-lg mb-1"
        style="height: 70px"
      />
      <input
        type="text"
        placeholder="Enter Product Quantity"
        class="form-control form-control-lg mb-1"
        style="height: 70px"
      />
      <input
```

```
        type="text"
        placeholder="Enter Product Price"
        class="form-control form-control-lg mb-1"
        style="height: 70px"
      />
      <input
        type="button"
        class="btn btn-lg w-100 text-light"
        style="background-color: rgb(42, 111, 240)"
        value="PURCHASE"
        onclick="addMessageToServer()"
      />
    </div>
  </body>
</html>
```

2.js

```
async function addMessageToServer() {
  let textref = document.querySelectorAll("input");

  let url = `http://localhost:3000/purchase`;
  let data = {
    prodName: textref.value,
    prodQuantity: textref.value,
    prodPrice: textref.value,
  };

  await axios.post(url, data);
  textref.value = "";
}
```

Output:


127.0.0.1:5500/1.html
FRONTEND
Enter Product Name
Enter Product Quantity
Enter Product Price
PURCHASE