26. Create a simple web form to insert the records in mysql data base.

Create MySQL Container

docker run --name mysql_mg -e MYSQL_ROOT_PASSWORD=Mahesh@123 -p 3306:3306 -d mysql

Initialize Node.js Project

```
        mkdir mysql_form
        cd mysql_form

        npm init -y
        npm install express mysql2
```

Create Server.js

```
const express = require('express');
const mysql = require('mysql2');
const bodyParser = require('body-parser');

const app = express();
const port = 3000;

// Setup MySQL connection
const db = mysql.createConnection({
  host: 'localhost',
  user: 'root',
  password: 'your_password',
  database: 'testdb'
});

// Connect to MySQL database
db.connect(err => {
  if (err) {
    console.error('Database connection failed: ' + err.stack);
    return;
  }
  console.log('Connected to database.');
});

// Set up middleware
app.use(bodyParser.urlencoded({ extended: true }));
app.use(express.static('public'));  // Serve static files from 'public' directory

// Route to display form
app.get('/', (req, res) => {
  res.sendFile(__dirname + '/public/index.html');
});
```

```
// Route to handle form submission
app.post('/submit', (req, res) => {
  const { name, email } = req.body;

  const query = 'INSERT INTO users (name, email) VALUES (?, ?)';
  db.query(query, [name, email], (err, result) => {
    if (err) {
      console.error('Error inserting record: ', err);
      return res.send('Error in inserting record.');
    }
    res.send('Record inserted successfully!');
  });
});

app.listen(port, () => {
  console.log(`Server running at http://localhost:${port}`);
});
```

Create MySQL Database and Table

```
 CREATE DATABASE testdb;
USE testdb;

CREATE TABLE users (
  id INT AUTO_INCREMENT PRIMARY KEY,
  name VARCHAR(255) NOT NULL,
  email VARCHAR(255) NOT NULL
);
```

HTML file

```
  <!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>MySQL Form</title>
</head>
<body>
  <h1>Insert User Data</h1>
  <form action="/submit" method="POST">
```

```html
    <label for="name">Name:</label><br>
    <input type="text" id="name" name="name" required><br><br>

    <label for="email">Email:</label><br>
    <input type="email" id="email" name="email" required><br><br>

    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

Command

Node server.js