Practical: 09

DOP: **DOC:**

Title: Develop a task manager application using AngularJS for the frontend and MongoDB for the backend

Objective: To develop a task manager application using AngularJS for the frontend interface and MongoDB for the backend database, enabling users to manage tasks with functionalities like adding, updating, deleting, and viewing tasks.

Theory:

1. Install Visual Studio Code and setting up the visual Studio Code
2. Install Nodejs (LTS)file and setting up the Nodejs

Steps:

1. Open visual studio code

2. Install some necessary Extensions that required to perform this practical

    i. **Live Server by ritwick dey**
    ii. **Angular Snippets by john papa**
    iii. **Html-CSS-JavaScript Support by ecmel**
    iv. **Prettier by prettier**
    v. **Npm**
    vi. **Mongodb by mongodb**

3. Install some necessary packages through npm (node package manager) to do this practical. This Packages can be installed using visual studio code terminal

    i. **npm init -y**
    ii. **npm install angular**
    iii. **npm install express mongoose body-parse cors**
    iv. **npm install mongoose**
    v. **npm install cors body-parser**

4. Now Create a Directory in visual studio code terminal

mkdir (Directory Name)

5. After creating a Directory we need to change the directory

cd (Directory Name)

6. After changing there is a link of your directory open it using (ctrl+click)

7. After downloading the mongodb extension → click on the extension →Connect the server with the visual studio code using a connection string→ **mongodb://localhost:27017** → connect

8. After connecting the localhost we can create a database where we insert a data that shown in our application

9. **Creating database and inserting a data**

   i. **Creating databse**

   ```
   test> use try
   switched to db try
   ```

   ii. **Create collection**

   ```
   try> db.createCollection("prac12")
   { ok: 1 }
   ```

   iii. **Insert the data into the collection**

   ```
   try> db.prac12.insertMany([{ task: "Assignment1", description: "complete unit 1", status: "pending" }, { task: "Assignme
   nt2", description: "complete unit 2", status: "pending" }, { task: "Assignment3", description: "complete unit 3", status
   : "pending" }, { task: "Assignment4", description: "complete unit 4", status: "pending" }])
   {
     acknowledged: true,
     insertedIds: {
       '0': ObjectId('66e129616eb6dce6002710bc'),
       '1': ObjectId('66e129616eb6dce6002710bd'),
       '2': ObjectId('66e129616eb6dce6002710be'),
       '3': ObjectId('66e129616eb6dce6002710bf')
     }
   }
   ```

10. **Open visual studio code →open your folder→create a files**

    i. **Server.js**

    ii. **Index.html**