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Bachelor of Computer Application (B.C.A.)

Practical: 10

DOP: **DOC:**

Title: To Create Student interface to stored and update the information.

Objective: To design and implement a student interface using MongoDB and Visual Studio Code that allows users to efficiently store, update, and manage student information. This interface will provide functionalities for adding new student records, updating existing data, and ensuring seamless integration with the MongoDB database for real-time data management.

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 a databse**

```
test> use student
switched to db student
student>
```

   ii. **Creating a collection**

```
student> db.createCollection("stu")
{ ok: 1 }
student>
```

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

```
test> db.stu.insertMany([{ name: "jack", age: 23, course: "Bca" }, { name: "john"
, age: 24, course: "Mba" }, { name: "marry", age: 25, course: "Bsc" }, { name: "
ramesh", age: 26, course: "engg" }, { name: "suresh", age: 29, course: "phd" }])
{
```