**Assignment 3: MongoDB Setup**

**Install and set up MongoDB locally.**

**Connect your Express.js server to MongoDB.**

Step 1: Install MongoDB Locally

Download MongoDB:

Visit the official MongoDB website: MongoDB Download.

Download the MongoDB Community Server for your operating system.

Install MongoDB:

Follow the installation instructions provided on the website for your specific operating system.

Step 2: Start MongoDB Server

Create a Data Directory:

Create a directory where MongoDB will store its data. For example, create a folder named data in your project directory:

mkdir data

Start MongoDB Server:

Open a terminal or command prompt.

Navigate to the MongoDB installation directory.

cd path/to/mongodb

Start the MongoDB server by running the following command:

mongod --dbpath=path/to/your/project/data

Make sure to replace path/to/your/project/data with the actual path to the data directory you created.

Step 3: Install MongoDB Driver for Node.js

Install the MongoDB Node.js Driver:

In your project directory, run the following command to install the MongoDB Node.js driver:

npm install mongodb

Step 4: Connect Express.js Server to MongoDB

Edit app.js:

Open your Express.js application file (app.js) in a text editor.

Add MongoDB Connection Code:

Add the following code to connect your Express.js server to MongoDB:

javascript

const express = require('express');

const mongoose = require('mongoose');

const app = express();

const port = 3000;

// Connect to MongoDB

mongoose.connect('mongodb://localhost:27017/your-database-name', { useNewUrlParser: true, useUnifiedTopology: true });

// Check MongoDB connection

const db = mongoose.connection;

db.on('error', console.error.bind(console, 'MongoDB connection error:'));

db.once('open', () => {

console.log('Connected to MongoDB');

});

// Define routes and start the server

// ... (existing route definitions)

app.listen(port, () => {

console.log(`Server listening at http://localhost:${port}`);

});

Replace your-database-name with the desired name for your MongoDB database.

Step 5: Test MongoDB Connection

Run the Application:

Start your Express.js server by running the following command:

node app.js

Check Console Output:

Check the console output for the message "Connected to MongoDB." This indicates a successful connection to the MongoDB database.

Congratulations! You have successfully installed and set up MongoDB locally, and connected your Express.js server to MongoDB. You can now use MongoDB as the database for your Express.js application. Make sure to replace placeholder values with your actual project and database details as needed.