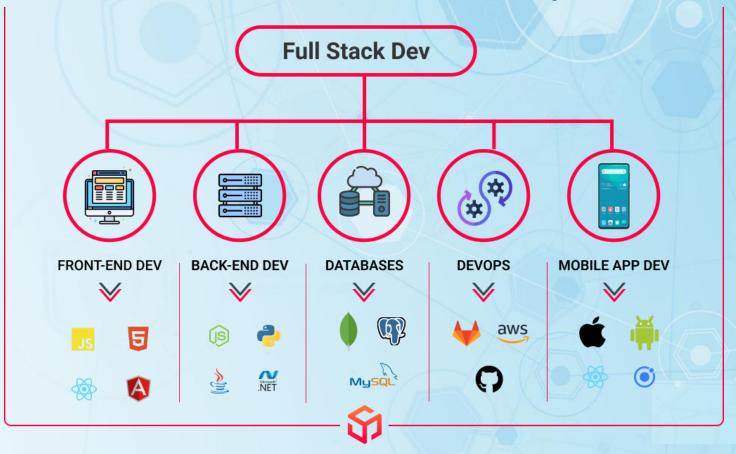
### MC4266 - Full Stack Web Development



MC4266 - FSWD Lab

**Ex:5** 

To Create a NodeJS server using Express that Creates, Insert,
Updates and
Deletes customers details and stores them in MongoDB
database. The information about the
user should be obtained from a HTML form.

1. Initialize a Node.js project

```
maniraj@Titan:~/Documents/FSWD_Lab$ cd Solutions
maniraj@Titan:~/Documents/FSWD_Lab/Solutions$ mkdir Ex_5
maniraj@Titan:~/Documents/FSWD_Lab/Solutions$ cd Ex_5
maniraj@Titan:~/Documents/FSWD_Lab/Solutions/Ex_5$ npm init -y
 Wrote to /home/maniraj/Documents/FSWD_Lab/Solutions/Ex_5/package.json:
  "name": "ex 5",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
   "test": "echo \"Error: no test specified\" && exit 1"
  "keywords": [],
  "author": "",
  "license": "ISC"
```

2. Install Express:

maniraj@Titan:~/Documents/FSWD\_Lab/Solutions/Ex\_5\$ npm install express

3. Install body-parser to parse incoming request bodies (for POST and PUT requests):

maniraj@Titan:~/Documents/FSWD\_Lab/Solutions/Ex\_5\$ npm install body-parser

OR

npm install express mongoose body-parser cors dotenv

Where

**Cors** (Cross-Origin Resource Sharing)

dotenv(Loads environment variables from .env file)

MONGO\_URI=mongodb://localhost:27017/mydatahase

4. Create a new Express Server File: ex\_5\_server.js

MC4266 – FSWD Lab Maniraj. K Asst.Prof(Sr.Gr)

5. Download MongoDB

Go to the official MongoDB download page:

https://www.mongodb.com/try/download/community

- 5.a Install mongodb.msi
- 5.b. Set Environment variable

C:\Program Files\MongoDB\Server\6.0\bin

5.c. Start mongodb in cmd net start MongoDB

6. Install Dotenv if missing

npm install dotenv

- 7. Create a html file for user input and display
- 8. Create a css file if required

#### Execute or Run the JS

1. Start the server

node ex\_5\_server.js

```
D:\FSWD_Lab\Ex_5>node ex_5_server.js
(node:5952) [MONGODB DRIVER] Warning: useNewersion
(Use `node --trace-warnings ...` to show whe
(node:5952) [MONGODB DRIVER] Warning: useUnitajor version

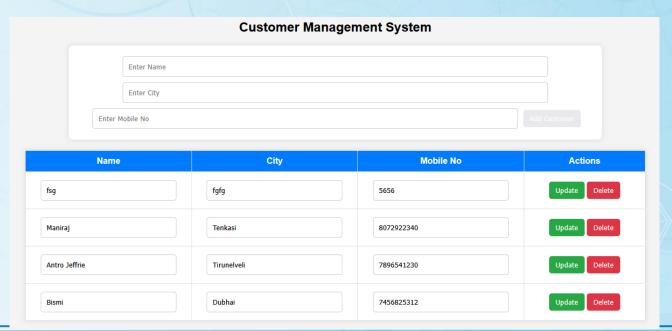
Server running on port 5000

MongoDB Connected
```

2. Open the index.html in the browser

#### Execute or Run the JS

- 3. Submit the form with the data
- 4. You can update or delete



Ex: 6

To Create a NodeJS server using Express that Creates, Insert, Updates and Deletes customers details and stores them in mysql database. The information about the user should be obtained from a HTML form.

## Ex:6 Create a NodeJS server using Express for CRUD using MySQL

1. Initialize a Node.js project

```
maniraj@Titan:~/Documents/FSWD_Lab$ cd Solutions
maniraj@Titan:~/Documents/FSWD_Lab/Solutions$ mkdir Ex_5
maniraj@Titan:~/Documents/FSWD_Lab/Solutions$ cd Ex_5
maniraj@Titan:~/Documents/FSWD_Lab/Solutions/Ex_5$ npm init -y
 Wrote to /home/maniraj/Documents/FSWD_Lab/Solutions/Ex_5/package.json:
  "name": "ex 5",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
   "test": "echo \"Error: no test specified\" && exit 1"
  "keywords": [],
  "author": "",
  "license": "ISC"
```

2. Install Express:

maniraj@Titan:~/Documents/FSWD\_Lab/Solutions/Ex\_5\$ npm install express

3. Install body-parser to parse incoming request bodies (for POST and PUT requests):

maniraj@Titan:~/Documents/FSWD\_Lab/Solutions/Ex\_5\$ npm install body-parser

OR

npm install express mysql2 cors dotenv

Where

**Cors** (Cross-Origin Resource Sharing)

dotenv( Loads environment variables from .env file)

4. Create a new Express Server File: ex\_6\_server.js

MC4266 – FSWD Lab Maniraj. K Asst.Prof(Sr.Gr)

### 5. Download mysql and install

CREATE DATABASE customerdb;

USE customerdb;

CREATE TABLE customers (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

city VARCHAR(100) NOT NULL,

mobile VARCHAR(20) NOT NULL );

### 6. Create .env file

DB\_HOST=localhost

DB\_USER=root

DB\_PASS=your\_mysql\_password

DB NAME=customerdb

6. Install Dotenv if missing npm install dotenv

- 7. Create a html file for user input and display
- 8. Create a css file if required

13

MC4266 – FSWD Lab Maniraj. K Asst.Prof(Sr.Gr)



# **Any Queries?**







