

Assignment No. 3(b)

Web Application Development

Aim :-

Create four API using Node.js, Express.js, and MongoDB for CRUD operations on assignment etc.

Theory :-

Express.js is a web application framework that provides you with a simple API to build websites, web apps and back ends. With the Express.js, you need not worry about the low level protocols, processes etc.

Express is a node.js web application framework that provides the broad features for building web and mobile applications. It is used to build a single page, multipage, and hybrid web application.

Express JS installation on a Windows ⇒

commands to express framework globally ⇒

```
npm install -g express.
```

```
npm install express --save
```

```
npm install body-parser --save
```

After this installation of express, The project structure will look like following ⇒

> node_modules

app.js

package-lock.json

package.json

create a file app.js, for this we will write the whole express code in that file. This will be our folder structure. Now inside app.js, import express with require keyword and create an app by calling the express() function provided by the express framework.

set the port for our local application, 3000 is the default but you can choose any according to the availability of ports.

Call the listen() function, it requires path and callback as an argument. it starts listening to the connection on the specified path, the default host is localhost, and our default path for the local machine is the localhost:3000, here 3000 is the port which we have set earlier.

The callback function gets executed either on the successful start of the server or due to an error.

app.js \Rightarrow const

* app.js =>

```
const express = require ('express');
const app = express ();
const port = 3000;

app.use (express, json ());
app.post ('/', (req, res) =>
{
    const {name} = req.body;
    res.send ('Welcome ${name}');
})
app.listen (PORT, (error) =>
{
    if (!error)
        console.log ("Server is successfully
Running, and App is listening on port " + PORT);
    else
        console.log ("Error occurred,
server can't start", error);
}
);
```

Step to Run application =>

Now as we have created server we can successfully start running it to see its working,

so write the below command in your terminal to start the express server.

⇒ node app.js

Conclusion ⇒

Thus, in this we learnt, how to create app in express JS.