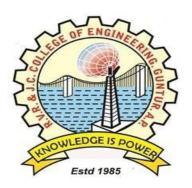
# FULL STACK DEVELOPMENT- CS325 (LAB RECORD)



### **RVR & JC COLLEGE OF ENGINEERING**

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## CS325-1(JOEL02)::LBD Course R-20 ::

## **FULL STACK DEVELOPMENT**

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<u>Aim:</u>Create a Node.JS environment with node and npm utilities commands and to check and test the node environment with Node.js Console module.

- steps for installation of Node.js environment Node
- Test through the node REPL shell commands
- Also install prompt-sync module using npm utility.
- Test and check the prompt-sync with console Module Application

#### Steps:

#### 1.Installation of Node.js Environment:

- 1. Go to the official Node.js website: https://nodejs.org/
- 2. Download the appropriate installer for your operating system.
- 3. Follow the installation instructions provided on the website.
- 4. Once installed, you can verify the installation by opening your terminal or command prompt and typing:node -v(This command will display the installed Node.js version.)

#### 2.Testing through the Node REPL Shell:

- 1. Open your terminal or command prompt.
- 2. Type node and press Enter to start the Node.js REPL shell.
- 3. You can now execute JavaScript commands directly in the shell. For example:> console.log("Hello, Node.js!")
- 4. To exit the REPL shell, press Ctrl + C twice or type .exit and press Enter.

#### 3.Installing prompt-sync Module:

- 1. Open your terminal or command prompt.
- 2. Navigate to your project directory or any directory where you want to install the module.
- 3. Run the following command to install prompt-sync globally: npm install -g prompt-sync
- 4. Alternatively, if you want to install prompt-sync locally for a specific project, navigate to your project directory and run: npm install prompt-sync

#### 4.Testing prompt-sync with Console Module Application:

- 1. Create a new JavaScript file (e.g., app.js) in your project directory by entering notepad <filename> in cmd
- 2. Write some code to test the prompt-sync module. For example:

```
const prompt = require('prompt-sync')();
const name = prompt('Enter your name: ');
console.log('Hello, ' + name + '!');
```

- 3. Save the file.
- 4. Open your terminal or command prompt.
- 5. Navigate to the directory where your app.js file is located.f. Run the application by typing: node app.js

#### **OUTPUT:**

```
Your environment has been set up for using Node.js 20.11.1 (x64) and npm.
C:\Users\Y21cs4>cd fsd
C:\Users\Y21cs4\FSD>node -v
v20.11.1
C:\Users\Y21cs4\FSD>node
Welcome to Node.js v20.11.1.
Type ".help" for more information.
> console.log("Hello, Node.js!")
Hello, Node.js!
undefined
>
(To exit, press Ctrl+C again or Ctrl+D or type .exit)
C:\Users\Y21cs4\FSD>npm install -g prompt-sync
changed 3 packages in 319ms
C:\Users\Y21cs4\FSD>npm install prompt-sync
up to date, audited 4 packages in 692ms
found 0 vulnerabilities
C:\Users\Y21cs4\FSD>notepad app.js
C:\Users\Y21cs4\FSD>node app.js
Enter your name: Y21cs4
Hello, Y21cs4!
```

<u>Aim:</u>Create a custom Date module using exports keyword Node module by using npm commands and to determine and display current Node.JS Webserver time and date.

- Create Node Package Module myDate() using node utilities without package.json file
- Also Create the Node Package Module myDate() using with package.json file
- directives like version,name,bin,etc.,
- Also install created packaged module using npm utility

#### Steps:

- 1. Create a folder name date
- 2. Create a mydate.js file which exports the current date and time:

```
exports.getCurrentDate = function() {
return new Date();
};
```

3. Create a date.js file to import mydate.js file and display the date and time:

```
const myDate = require('./mydate.js');
const currentDate = myDate.getCurrentDate();
console.log('Current Node.js Webserver time and date:', currentDate);
```

4.Create package.json file:

```
"name": "my-date-module",

"version": "1.0.0",

"description": "A custom Date module for Node.js",

"main": "date.js",

"author": "Y21cs57",

"scripts": {"test": "echo \"Error: no test specified\" && exit 1"},

"license": "ISC"
}
```

#### 5. Enter npm publich command to publish

#### **OUTPUT:**

```
C:\Users\Y21cs4\FSD\lab\date>node date.js
```

Current Node.js Webserver time and date: 2024-04-16T13:59:04.041Z

<u>Aim:</u>Create Node JS Application with Folder structure using npm utilities and develop one application to display "welcome Node JS APP" Greet message

- With VisualStudioCode APP Framework(Any other)
- Without VisualStudioCode APP Framework
- Also Access the Custom myDate Module.

#### Steps:

1.Create a new directory for your project:

```
mkdir welcome-node-app
```

2. Navigate into the project directory:

```
cd welcome-node-app
```

3. Initialize npm in the project directory:

```
npm init -y
```

4. Create a folder structure for your application:

```
mkdir src
```

5.Inside the src directory, create a JavaScript file for your application:

```
cd src
notepad app.js
```

6.Open the app.js file in your preferred code editor (e.g., Visual Studio Code):

```
const myDate = require('./myDate');
function greet() {
  const currentDate = myDate.getCurrentDate();
  console.log(`Welcome to the Node.js App! Today's date is ${currentDate}`);
}
greet();
```

7. Create a custom module myDate.js inside the src directory:

```
notepad myDate.js
function getCurrentDate() {
  return new Date().toDateString();}
module.exports = {
  getCurrentDate};
```

```
8. Go back to the root directory of your project:
       cd ..
9. Run your Node.js application:
       node src/app.js
OUTPUT:
C:\Users\Y21cs4\FSD\lab>mkdir welcome
C:\Users\Y21cs4\FSD\lab>cd welcome
C:\Users\Y21cs4\FSD\lab\welcome>npm init -y
Wrote to C:\Users\Y21cs4\FSD\lab\welcome\package.json:
 "name": "welcome",
 "version": "1.0.0",
 "description": "",
 "main": "index.js",
 "scripts": {
  "test": "echo \"Error: no test specified\" && exit 1"
},
"keywords": [],
"author": "",
"license": "ISC"
}
C:\Users\Y21cs4\FSD\lab\welcome>mkdir src
C:\Users\Y21cs4\FSD\lab\welcome>cd src
C:\Users\Y21cs4\FSD\lab\welcome\src>notepad app.js
C:\Users\Y21cs4\FSD\lab\welcome\src>notepad myDate.js
C:\Users\Y21cs4\FSD\lab\welcome\src>cd ..
C:\Users\Y21cs4\FSD\lab\welcome>node src/app.js
```

Welcome to the Node.js App! Today's date is Tue Apr 16 2024

<u>Aim:</u>Create Angular CLI Applications with different component configuration steps using different @Angular ng module utilities at CLI environment.

- Class component Angular app
- Define Inline selector component in Angular HelloWorld app with root element
- Define Inline template component in Angular HelloWorld app with HTML elements
- Define Inline Style component in Angular HelloWorld app to style the color of the messag

#### Steps:

1. Create a new Angular project with Angular CLI:

```
ng new comp
select CSS and <enter>, enter "y" for yes
```

2. Navigate into the project directory:

cd comp

- 3. Go to comp/src/app
- 4. Edit app.component.ts as follows:

```
import { Component } from '@angular/core';
import { RouterOutlet } from '@angular/router';
@Component({
    selector: 'app-root',
    standalone: true,
    imports: [RouterOutlet],
    template: `

    <h1 > Hello world</h1>
    <h2 > Created app component</h2>
    <h3 > Inline Template and selector</h3>`,
    styles:[`h1{color:blue;}h2{color:red;} h3{color:green;}`]
})
export class AppComponent {
    title = 'comp';
}
```

Rg.no:Y21CS057 4. Now run the component: npm run ng serve 5. Click on the localhost link **OUTPUT:** < > G localhost:4200 Hello world Created app component Inline Template and selector

<u>Aim:</u>Create Angular CLI Applications using Angular Class component constructors and objects and different variable initialization.

- Create Date Class Constructor with current Date in Class Component
- By using Selector,templateURL and styleURL External component configurations demonstrate the constructor with different objects

#### Steps:

- 1. Open comp/src/app
- 2. Edit the app.component.html as follows:

```
<form>
Click this button for the current date:
<button type="button" (click)="today()">Click</button><br>
{{date}}
</form>
```

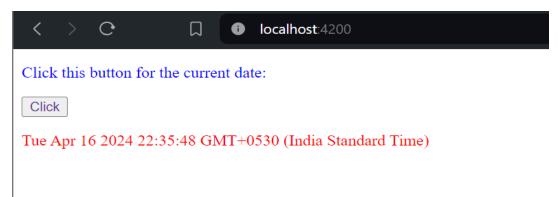
#### 3.Edit the app.component.css as follows:

```
p{color:blue;}
button{color: rebeccapurple;}
#one{color:red;}
```

#### 4. Edit the app.component.ts as follows:

```
export class AppComponent {
  title = 'comp';
  date: Date=new Date();button:boolean=false;
  today(){
   this.date=new Date();this.button=!this.button;}}
```

#### **OUTPUT:**



<u>Aim:</u>Create Angular CLI Applications using Angular Expressions and Filters to demonstrate the one App.

- Create different Angular Expressions in Class Component
- Also Specify with Different Angular pipes or filters to demonstrate each filter with Angular expression

#### Steps:

#### Edit inline template and inline style as follows:

```
import { Component } from '@angular/core';
@Component({
selector: 'app-root',
template: `
<h1>Expressions</h1>
Number:<br>
{{5}}<hr>
String:<br>
{{'My String'}}<hr>
Adding two strings together:<br>
{{'String1' + ' ' + 'String2'}}<hr>
Adding two numbers together:<br>
{{5+5}}<hr>
Adding strings and numbers together:<br/>
{{5 + '+' + 5 + '='}}{{5+5}}<hr>
Comparing two numbers with each other:<br/>
{{5===5}}<hr>
 Uppercase: {{"rvrjcce" | uppercase }}<br>
Lowercase: {{"HELLO WORLD" | lowercase}}<br>
 Date: {{ today | date: 'yMMMMEEEEhmsz'}}<br>
 Date: {{today | date:'mediumDate'}}<br>
 Date: {{today | date: 'shortTime'}}<br>
 Number: {{3.1415927 | number: '2.1-5'}}<br>
 Number: {{28 | number: '2.3'}}<br>
```

```
Currency: {{125.257 | currency:'USD':true: '1.2-2'}}<br>
Currency: {{2158.925 | currency}}<br>
PercentPipe: {{.8888 | percent: '2.1'}}<br>
SlicePipe: {{"hello world" | slice:0:9}}<br/>
Styles:[`span{font-weight:bold;border1px ridge-blue;padding:5px}`]<br/>
Export class Pipes{<br/>
Name:String="RVR";<br/>
Today:Date;<br/>
Constructor(){<br/>
This.today=new Date()}}<br/>
export class AppComponent {}
```

#### **OUTPUT:**

## **Expressions**

Number:

. .

String: My String

Adding two strings together:

String1 String2

Adding two numbers together:

10

Adding strings and numbers together:

5+5=10

Comparing two numbers with each other:

true

Uppercase: RVRJCCE Lowercase: hello world

Date: 2023MayMonday101840GMT+5

Date: May 8, 2023 Date: 10:18 AM Number: 03.14159 Number: 28.000 Currency: \$125.26 Currency: \$2,158.93 PercentPipe: 88.9% SlicePipe: hello wor

<u>Aim:</u>Create Angular CLI Applications using Data Binding demonstrate each binding type with form elements.

- Interpolation Binding.
- Style Binding
- · Class Binding.
- Two –way binding.

#### Steps:

#### 1. Write the app.component.html as follows:

```
<h2>Interpolation Binding</h2>
Welcome {{ name }}
<h2>Style Binding</h2>
<button [style.background-color]="isDisabled ? 'gray' : 'blue'"
(click)="change()">Click</button>
<h2>Class Binding</h2>
<div [class.error]="hasError">This text will have error class if hasError is true</div>
<h2>Two-way Binding</h2>
<input type="text" ng-Model="username">Your username is: {{ username }}
```

#### 2. In the app.component.ts as rewrite the Appcomponent as follows:

```
export class AppComponent {
  title = 'bindings';
  name: string = 'user';
  isDisabled: boolean = false;
  hasError: boolean = true;
  username: string = ";
  change() {
    this.isDisabled = !this.isDisabled;
}}
```

#### 3. Run the using command:

Npm run ng serve

#### **OUTPUT:**

# **Interpolation Binding**

Welcome user

# **Style Binding**



# **Class Binding**

This text will have error class if hasError is true

# **Two-way Binding**

student1

Your username is: student1

<u>Aim</u>Create Node.js Application using URL module to decompose URL Components with urlStr

= 'http://user:pass@host.com:80/resource/path?query=string#ha"

- Resolving the URL Components with url.parse() and url.format() methods
- Also to Resolving the URL using url.resolve();

#### **Program:**

```
var url=require('url');
var urlstr='http://user:pass@host.com:80/resource/path?query=string#hash';
var urlobj=url.parse(urlstr,true,false);
urlstring=url.format(urlobj);
console.log('url address:'+urlstring);
console.log('url components');
console.log('protocol:'+urlobj.protocol);
console.log('host:'+urlobj.host);
console.log('auth:'+urlobj.auth);
console.log('port:'+urlobj.port);
console.log('hostname:'+urlobj.hostname);
console.log('path:'+urlobj.path);
console.log('hash:'+urlobj.hash);
var orginalurl='http://user:pass@host.com:80/resource/path?query=string#hash';
var newresource='/another/path?querynew';
console.log(url.resolve(orginalurl,newresource));
```

#### **OUTPUT:**

```
url address:http://user:pass@host.com:80/resource/path?query=string#hash
url components
protocol:http:
host:host.com:80
auth:user:pass
port:80
hostname:host.com
path:/resource/path?query=string
hash:#hash
```

http://user:pass@host.com:80/another/path?querynew

<u>Aim</u>Implementing Http Server and Http Client using http node.js module and demonstrate the Http Client/server Application.

- Create Http Static server files data using static files.
- Define HttpRequest/HttpResponse objects

#### Steps:

- 1. Create a folder HTTP
- 2. Create a HTML folder to store the HTML file
- 3. Create a hello.html file in HTML folder:

```
<html><head>
<title>Paaaaa</title>
</head>
<body>
<h1>Hello World</h1>
</body></html>
```

- 4. Create a Client.js and Server.js in HTTP folder
- 5. Code for Client.js:

```
var http = require('http');
var options = {
hostname: '192.168.1.5',
port: '8095',
path: '/hello.html'
};
function handleResponse(response) {
var serverData = '';
response.on('data', function (chunk) {
serverData += chunk;
});
response.on('end', function () {
console.log(serverData);
});
```

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```
}
        http.request(options, function(response){
        handleResponse(response);
        }).end();
6. Code for Server.js:
        var fs = require('fs');
        var http = require('http');
        var url = require('url');
        var ROOT_DIR = "html/";
        http.createServer(function (req, res) {
        var urlObj = url.parse(req.url, true, false);
        fs.readFile(ROOT_DIR + urlObj.pathname, function (err,data) {
        if (err) {
        res.writeHead(404);
        res.end(JSON.stringify(err));
        return;
        }
        res.writeHead(200);
        res.end(data);
        });
        }).listen(8095);
```

#### 7. Run the server in one cmd and run the client in another cmd

#### **OUTPUT:**

Hello World

student

<u>Aim</u>Create Simple Arithmetic Operations Form with different form input elements N1 and N2 text components and ADD button component.

- provide Express Server with listen port:3000
- Use Express.use route and URL Pattern '/add'
- provide different routing configurations either POST or GET

#### Steps:

#### 1. Create a Hello.js file with following code:

```
var express = require('express');
var app = express();
app.get('/', function (req, res) {
    res.send('<h1 style=color:blue;>Hello World</h1>');
})
var server = app.listen(3000, function () {
    var host = server.address().address
    var port = server.address().port
    console.log("Server listening at http://%s:%s", "127.0.0.1", port)
})
```

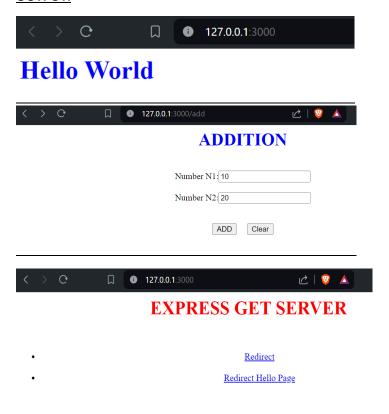
#### 2. Create a Add.js file with following code:

```
<button type="submit">ADD</button>&nbsp;&nbsp;&nbsp; <button</pre>
       type="reset">Clear</button>
       </form></center>
        `);
       });
       app.post('/add', (req, res) => {
        const \{t1, t2\} = req.body;
        var n1=Number(t1);
         var n2=Number(t2);
         var result=n1+n2;
         res.send('Addition of Two numbers:'+result+"<br><a style='color:red' href=./add>GoTo
       Home</a>");
       });
       app.listen(3000, () => {
        console.log('Server is running on port 3000');
       });
3. Create a Route.js file with following code:
       var express = require('express');
       var app = express();
       app.use(express.urlencoded({ extended: false }));
       // This responds with "Hello World" on the homepage
       app.get('/', function (req, res) {
         res.send(`<center><h1 style=color:red>EXPRESS GET SERVER</h1><br><a
       href=./list_user>Redirect</a>
       <a href=./express1>Redirect Hello Page</a></center>`);
       })
       // This responds a POST request for the homepage
       app.get('/express1', function (req, res) {
         res.send('<h1 style=color:red>RED Hello WORLD</h1><br/>sor><a href=./>GoHome</a>');
       })
```

```
app.delete('/del_user', function (req, res) {
    res.send('<h1 style=color:red>Hello DELETE</h1>');
})
app.get('/list_user', function (req, res) {
    res.send(`<h1 style=color:blue>Page Listing</h1>
<a href=./>GoHome</a>`);
})
var server = app.listen(3000, function () {
    var host = server.address().address
    var port = server.address().port
    console.log("Example app listening at http://%s:%s", host, port)
})
```

#### 4. Run each files individually

#### **OUTPUT:**



<u>Aim</u>Create Simple Login form Page Application using Express JS Module: .

- provide Express Server with listen port:4000 with URL Pattern '/login'
- Display the login form with username, password, and submit button on the screen.
- Users can input the values on the form.
- Validate the username and password entered by the user.
- Display Invalid Login Credentials message when the login fails.
  - Show a success message when login is successful.

#### Steps:

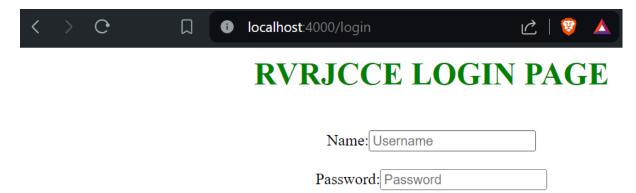
#### 1. Create a login.js file as follows:

```
const express = require('express');
const app = express();
app.use(express.urlencoded({ extended: false }));
app.get('/login', (req, res) => {
console.log("URL:\t" + req.originalUrl);
console.log("Protocol: " + req.protocol);
console.log("IP:\t" + req.ip);
console.log("Path:\t" + req.path);
console.log("Host:\t" + req.host);
console.log("Method:\t" + req.method);
console.log("Query:\t" + JSON.stringify(req.query));
console.log("Fresh:\t" + req.fresh);
console.log("Stale:\t" + req.stale);
console.log("Secure:\t" + req.secure);
console.log("UTF8:\t" + req.acceptsCharset('utf8'));
console.log("Connection: " + req.get('connection'));
console.log("Headers: " + JSON.stringify(req.headers,null,2));
res.send(`
<center><h1 style="color:green">RVRJCCE LOGIN PAGE</h1>
<form method="POST" action="/login" autocomplete="off">
<br><label>Name:</label><input type="text" name="username" placeholder="Username"</pre>
required autooff/><br>
```

```
<br><label>Password:</label><input type="password" name="password"</pre>
placeholder="Password" required /><br>
<br><br>>
<button type="submit">Login</button>
</form></center>
 `);
});
app.post('/login', (req, res)=>{
 const { username, password,regd } = req.body;
 if (username === 'saikrishnasri' && password ==='sai') {
  res.send('Login successful'+username);
 } else {
  res.send('Invalid username or password:'+username);
 }
});
app.listen(4000, () => {
 console.log('Server is running on port 4000');
});
```

- 2. Run the login.js
- 3. Check the browser in the port 4000

#### **OUTPUT:**



Login

<u>Aim</u>Create Simple MongDB Server with mongod configuration data and also manage Mongoshell using mongosh:

- Create simple student document Database
- Insert one student record in mongosh
- Update and delete one document in mongosh
- Also to perform connection from MongoDB to node.js driver connection string

#### Steps:

- 1. Install MongoDb Community edition from the link: https://www.mongodb.com/try/download/community
- 2. Install MongoShell from the link: https://www.mongodb.com/try/download/shell
- 3. Open MongoDb Compass, start the server
- 4. Mongosh commands:

```
use student // to use the student database

db.student.InsertOne(({uname:"rvr",pwd:"123" });// to insert one

db.student.InsertMany[({ }];// to insert many

db.student.updateOne({ } });// to update one

db.student.updateMany();// to update many

db.student.deleteMany();// to delete many

db.student.deleteOn();// to delete one
```

#### **OUTPUT:**

```
student> db.createCollection("login")
{ ok: 1 }
student> db.login.insertOne({uname:"rvr",pwd:"123"})
{
    acknowledged: true,
    insertedId: ObjectId('6620f8e1295e2356e3117b7b')
}
student> db.login.insertOne({uname:"cse",pwd:"456"})
{
    acknowledged: true,
    insertedId: ObjectId('6620f8f1295e2356e3117b7c')
}
student> show collections
login
student> student> db.login.find()
[
    __id: ObjectId('6620f8e1295e2356e3117b7b'),
    uname: 'rvr',
    pwd: '123'
},
    {
    __id: ObjectId('6620f8f1295e2356e3117b7c'),
    uname: 'cse',
    pwd: '456'
}
```

```
student> db.login.updateOne( { uname: "cse" }, { $set: { uname: "geeta"}})
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    upsertedCount: 0
}
student> db.login.updateOne( { uname: "rvr" }, { $set: { uname: "ravi"}})
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
}
student> db.student.find()
student> db.student.find()

student> db.login.findd()
[
    __id: ObjectId('6620f8e1295e2356e3117b7b'),
    uname: 'ravi',
    pwd: '123'
},
    __id: ObjectId('6620fa5c295e2356e3117b7c'),
    uname: 'geeta',
    pwd: '456'
},
    __id: ObjectId('6620fa5c295e2356e3117b7d'),
    uname: ramu',
    pwd: 'ram123'
},
    __id: ObjectId('6620fa73295e2356e3117b7e'),
    uname: 'sita',
    pwd: 'sita456'
}
```