

NodeJS Internship Report

Personal Details

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Company Details

Company Name : Akash Technolabs
External Guide : Akash Padhiyar
Training Duration : 26-05-2021 to 21-06-2021

Index

<u>Index</u>	<u>Task Detail</u>	<u>Page No</u>
0	Revision of HTML	1
1	Modules in NodeJS	5
2	Theory of NodeJS	7
3	Initialization of Node project	7
4	Routes in NodeJs	9
5	Theme Integration	11
6	Conditional and loops using backend	14
7	CRUD operation	18

Note : You can Add Minimum 15 Screenshots and Maximum 50

Also Write Description in Each page

Day_0: We got to learn about all the aspects of Internship and how it would be helpful to us. As well as, we got to learn about all the history of Web development apart from It got to know about how NodeJS is useful for development and how the arrival of NodeJS has changed the market.

Task_0: For Task we are supposed to develop a Registration Form, which would be helpful to us for revising all the basics of HTML.

INPUT: Code for Registration Page

Activities

File Edit Selection View Go Run Terminal Help

registrationForm.html X

registrationForm.html > html > head > title

```
Mon Jun 14 17:01:58  
registrationForm.html - 15 Days Internship - Visual Studio Code
```

```
Day 0 : registrationForm.html <html><head><title>  
26     </title>  
27     <link href="https://www.w3schools.com/html/html_form.asp" rel="stylesheet" type="text/css" />  
28     <script src="https://code.jquery.com/jquery-3.6.0.min.js" integrity="sha256-/xUq+3LCM7Pv4Zg/Phy+2D1YCk8eCVcwPrFQfjL+jw=" crossorigin="anonymous"></script>  
29     <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ka7Sk0Gln4ZUI0q6E2d+uq9jwuZIuUjuWD7TmS1QdZp0uWZMmneu00F6" crossorigin="anonymous"></script>  
30     <!-- Font Awesome -->  
31     <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.4/css/all.min.css" rel="stylesheet" />  
32     <!-- Bootstrap -->  
33     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" />  
34     <!-- Custom CSS -->  
35     <link href="https://www.w3schools.com/html/css/registrationForm.css" rel="stylesheet" />  
36     <!-- JavaScript -->  
37     <script src="https://www.w3schools.com/html/js/registrationForm.js" type="text/javascript" />  
38     <!-- HTML -->  
39     <!-- Header -->  
40     <div class="header">  
41         <h1>Registration Form</h1>  
42         <hr/>  
43         <div class="nav-links">  
44             <a href="#">Home <a href="#">About <a href="#">Services <a href="#">Contact</div>  
45         <hr/>  
46         <div class="user-profile">  
47             <img alt="User Profile Placeholder" data-bbox="100px 100px 150px 150px" />  
48             <input type="text" name="username" placeholder="Enter Username" />  
49             <input type="password" name="password" placeholder="Enter Password" />  
50             <input type="checkbox" checked="" data-bbox="100px 100px 150px 150px" />  
51             <div class="dropdown">  
52                 <label class="dropdown-toggle" data-bbox="100px 100px 150px 150px">Gender</label>  
53                 <div class="dropdown-menu" data-bbox="100px 100px 150px 150px">  
54                     <input type="radio" name="gender" value="male" id="male" />  
55                     Male  
56                     <input type="radio" name="gender" value="female" id="female" />  
57                     Female  
58                     <input type="radio" name="gender" value="other" id="other" />  
59                     Other  
60                 </div>  
61             </div>  
62         </div>  
63     </div>  
64     <div class="form-container">  
65         <div class="form-left">  
66             <div class="form-group">  
67                 <label>First Name</label>  
68                 <input type="text" name="firstname" placeholder="Enter First Name" />  
69             </div>  
70             <div class="form-group">  
71                 <label>Last Name</label>  
72                 <input type="text" name="lastname" placeholder="Enter Last Name" />  
73             </div>  
74             <div class="form-group">  
75                 <label>Email</label>  
76                 <input type="email" name="email" placeholder="Enter Email" />  
77             </div>  
78             <div class="form-group">  
79                 <label>Phone</label>  
80                 <input type="tel" name="phone" placeholder="Enter Phone" />  
81             </div>  
82             <div class="form-group">  
83                 <label>Address</label>  
84                 <input type="text" name="address" placeholder="Enter Address" />  
85             </div>  
86             <div class="form-group">  
87                 <label>City</label>  
88                 <input type="text" name="city" placeholder="Enter City" />  
89             </div>  
90             <div class="form-group">  
91                 <label>State</label>  
92                 <input type="text" name="state" placeholder="Enter State" />  
93             </div>  
94             <div class="form-group">  
95                 <label>Country</label>  
96                 <input type="text" name="country" placeholder="Enter Country" />  
97             </div>  
98             <div class="form-group">  
99                 <label>Postcode</label>  
100                <input type="text" name="postcode" placeholder="Enter Postcode" />  
101            </div>  
102            <div class="form-group">  
103                <label>Comments</label>  
104                <textareas rows="4" cols="22" name="comment" form="usrform"></textareas>  
105            </div>  
106            <div class="form-right">  
107                <button class="btn" type="reset" value="Reset" data-bbox="100px 100px 150px 150px">Reset</button>  
108                <button type="submit" value="Sign Up" data-bbox="100px 100px 150px 150px" data-bbox="100px 100px 150px 150px">Sign Up</button>  
109            </div>  
110        </div>  
111    </div>
```

Output:

The screenshot shows a Google Chrome browser window with the title bar "Fri Jun 11 00:09:30". The address bar displays the URL `/home/zeel/Documents/15%20Days%20Internship/Day_0/registrationForm.html`. The page content is a "Registration Form" with the following fields:

- Name :
- Phone :
- Email :
- Password :
- Gender : Male Female
- Address :

At the bottom of the form are two buttons: "Reset" and "Sign up".

Day_1: On this day we got to learn about the concepts of modules in NodeJs, how modules are useful for developing a good backend system. Generally, there are two types of modules in NodeJs (1). Local Module (2). Global Module

(1). Local Module -> These modules are available locally i.e. we develop them and use them for our purpose only.

(2). Global Module -> These modules are available globally which means anyone can use them for development and they are accessible through npm(node package manager).

Task_1: In this task we are supposed to use the concept of local and global modules in our code.

Input:

```
File Jun 11 00:23:34
file1.js - 15 Days Internship - Visual Studio Code

File Edit Selection View Go Run Terminal Help
File Explorer View Editor Search Editor Split Editor Terminal
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
zeel@L33Z:~/Documents/15 Days Internship/Day_1$ node file2.js
you have entered in the borders of file1
zeel@L33Z:~/Documents/15 Days Internship/Day_1$ 
```

The screenshot shows the Visual Studio Code interface. The left sidebar displays the file structure: 'OPEN EDITORS' (registrationForm.html, JS app.js, JS file1.js, JS file2.js), 'GROUP 1' (JS app.js Day_1, JS file1.js Day_1, JS file2.js Day_1), and 'GROUP 2' (JS file2.js Day_1). The right side shows two code editors. The first editor contains:

```
Day_1 > JS file1.js > ...
1 // Create module and export
2
3 module.exports = "you have entered in the borders of file1";
```

```
The second editor contains:
```

```
Day_1 > JS file2.js > ...
1 //Load local module
2
3 var myContent = require('./file1');
4
5 //Print content
6
7 console.log(myContent);
```

The terminal at the bottom shows the command 'node file2.js' being run and the output 'you have entered in the borders of file1'.

Local Modules

The screenshot shows a dual-pane interface of Visual Studio Code. On the left, a browser window displays the URL `localhost:5000`, showing the text "Welcome to virtual World". On the right, the code editor pane shows a file named `app.js` with the following content:

```
Day_1 > JS app.js > (e) server > http.createServer() callback
1 var http = require('http');
2
3 var server = http.createServer(function(req,res){
4   res.end("Welcome to virtual World");
5 })
6
7 server.listen(5000);
```

The terminal below the code editor shows the command `node app.js` being run, resulting in the error:

```
TypeError: res.Send is not a function
at Server.<anonymous> (/home/zeel/Documents/15 Days Internship/Day_1/app.js:4:9)
at Server.emit (node:events:369:20)
at parserOnIncoming (node: http_server:936:12)
at HTTPParser.parserOnHeadersComplete (node: http_common:129:17)
zeel@133z:~/Documents/15 Days Internship/Day_1$ node app.js
```

The status bar at the bottom indicates the file is saved, with 4 lines of code, 9 columns, and UTF-8 encoding.

Global Modules

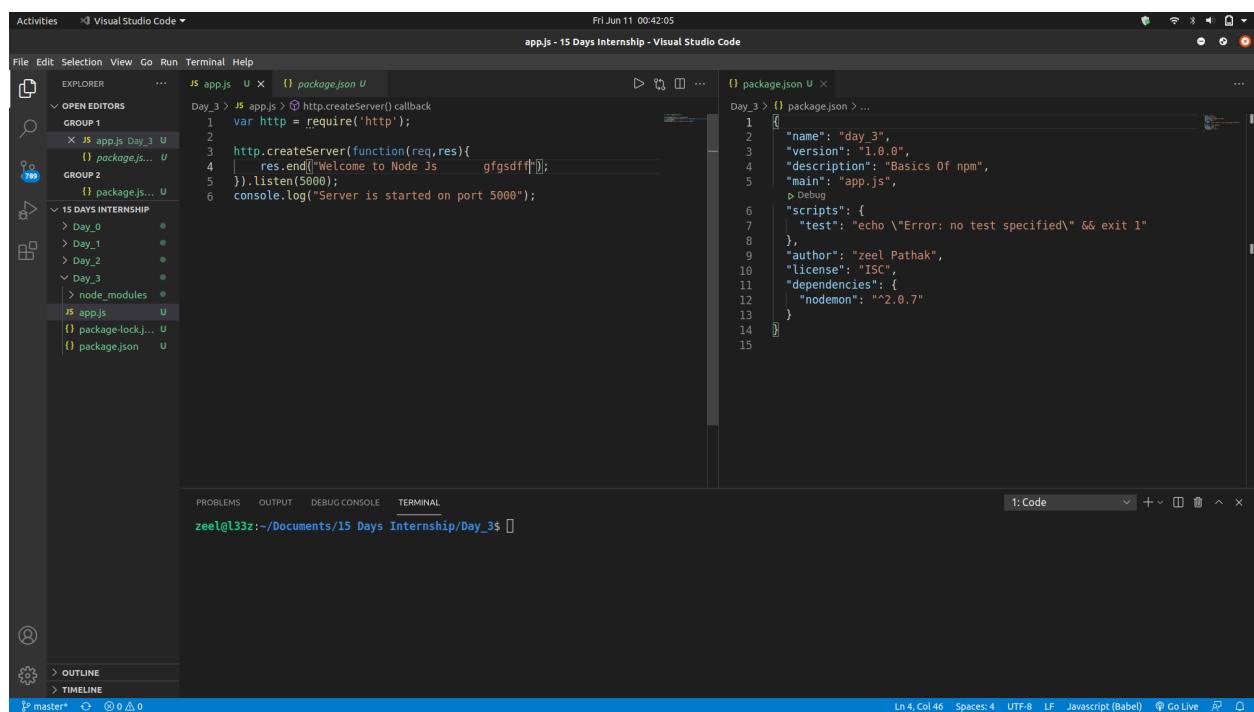
Day_2: We got to learn about all the basic theory fundamentals of NodeJS as well as went through Files using NodeJS.Importance of callbacks and promises.Middleware functions and all.

Task_2: As our task, we learned and got to know about all the basics of Nodejs and how we can access files using NodeJS.

Day_3: We learned about how to initialize a Node project using npm init and its file structure and we also created a server using http module. Get to know about different ports available on a system to use for development and also get to know about many jargon words used in nodeJS and also how to run it node {filename}.

Task_3: Used npm init to create a project and also created a local server using http module.

Input:



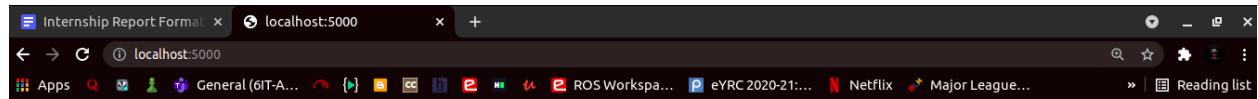
The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** Shows a project structure under "15 DAYS INTERNSHIP". It includes "Day_0", "Day_1", "Day_2", "Day_3", and "node_modules". Inside "Day_3", there are "app.js", "package.json", and "package-lock.json".
- Code Editor:** Displays two files side-by-side:
 - app.js:** Contains the following code:

```
var http = require('http');
http.createServer(function(req,res){
  res.end("Welcome to Node Js");
}).listen(5000);
console.log("Server is started on port 5000");
```
 - package.json:** Contains the following JSON object:

```
{
  "name": "day_3",
  "version": "1.0.0",
  "description": "Basics Of npm",
  "main": "app.js",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1"
  },
  "author": "zeel Pathak",
  "license": "ISC",
  "dependencies": {
    "nodemon": "^2.0.7"
  }
}
```
- Terminal:** Shows the command "zeel@l33z:~/Documents/15 Days Internship/Day_3\$".
- Status Bar:** Shows "Ln 4, Col 46" and "Javascript (Babel)".

Output:



Day_4: Learned about the express framework, and how to generate the skeleton of a project using express-generator. Got to know about routings, how routing works and how to use them.

Task_4: created some routes and used them to inter travel between other routes.

Input:

```

File Edit Selection View Go Run Terminal Help
Activities Mon Jun 14 18:51:12
index.js - 15 Days Internship - Visual Studio Code
File Explorer View Go Run Terminal Help
OPEN EDITORS index.js
15 DAYS INTERNSHIP
Day_0
Day_1
Day_2
Day_3
Day_4/internship
bin
node_modules
public
routes
views
app.js
package-lock.json
package.json
Day_5/themeintegr...
Day_6
Day_7/crud

index.js
1 var express = require('express');
2 var router = express.Router();
3
4 /* GET home page. */
5 router.get('/', function(req, res, next) {
6   res.render('index', { title: 'Express' });
7 });
8
9 router.get('/about',function(req,res){
10   res.render('about');
11 });
12
13 router.get('/contact',function(req,res){
14   res.render('about');
15 });
16
17 module.exports = router;
18
19

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
zeelg@133z:~/Documents/15 Days Internship/Day_3$ bash
bash
outline
timeline
Ln 14, Col 20 Spaces: 2 UTF-8 LF Javascript (Babel) Go Live

```

```

ay_4 > internship > views > index.ejs > html > body > a
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title><%= title %></title>
5     <link rel='stylesheet' href='/stylesheets/style.css' />
6   </head>
7   <body>
8     <h1><%= title %></h1>
9     <p>Welcome to <%= title %></p>
10    <a href="/">Home</a> | <a href="/about">About</a> | <a href="/contact">Contact</a>
11  </body>
12 </html>
13

```

```

about.ejs
ay_4 > internship > views > about.ejs ...
1 <h1>This is a about page</h1>
2 <a href="/">Home</a> | <a href="/about">About</a> | <a href="/contact">Contact</a>
3

```

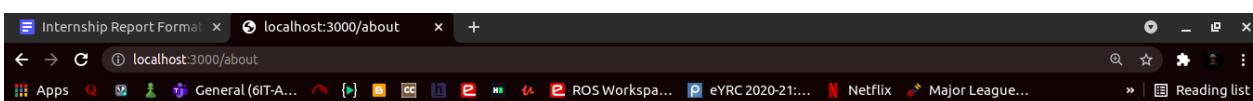
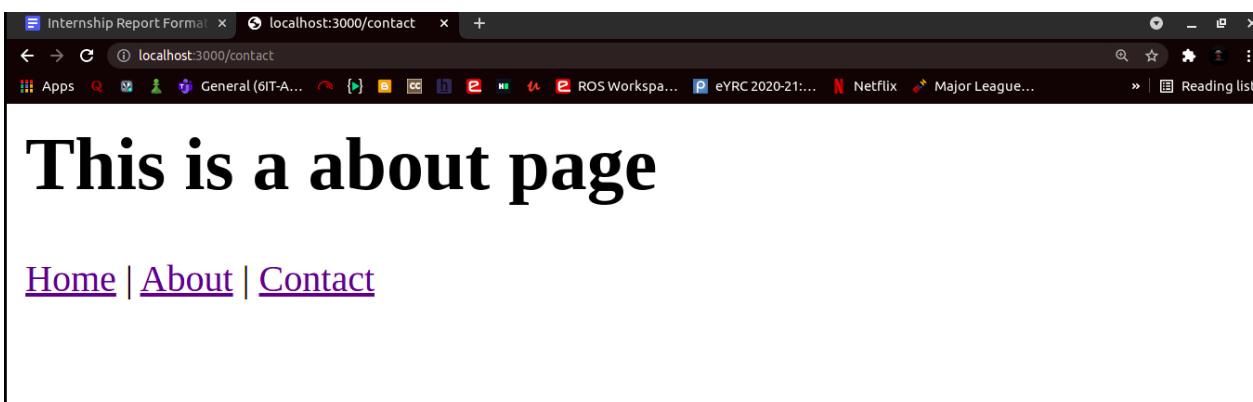
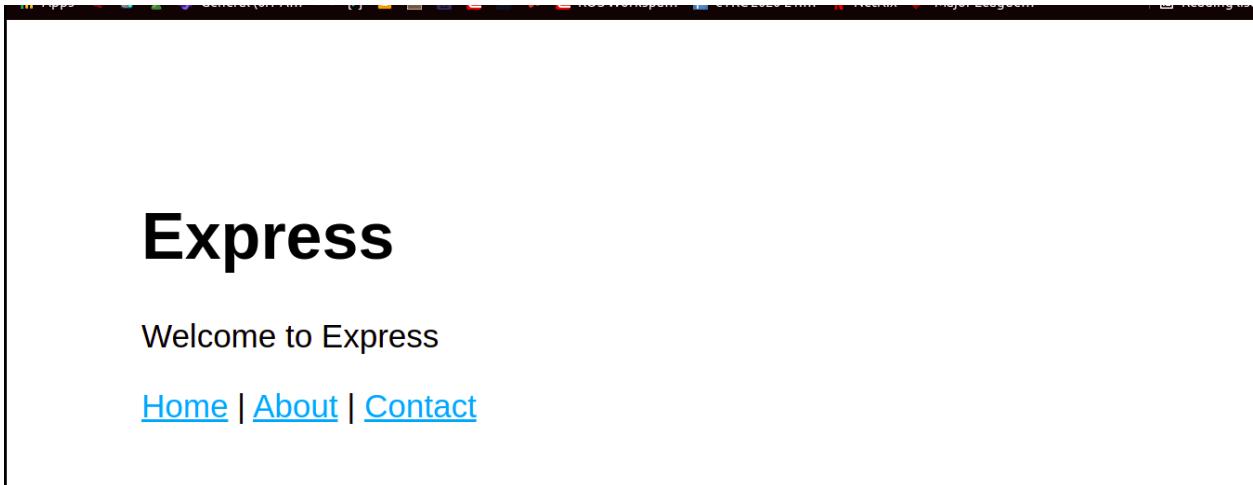
```

File Edit Selection View Go Run Terminal Help
Activities Mon Jun 14 18:52:57
contact.ejs - 15 Days Internship - Visual Studio Code
File Explorer View Go Run Terminal Help
OPEN EDITORS contact.ejs
15 DAYS INTERNSHIP
Day_0
Day_1
Day_2
Day_3
Day_4/internship
bin
node_modules
public
routes
views
app.js
package-lock.json
package.json
Day_5/themeintegr...
Day_6
Day_7/crud

contact.ejs
1 <h1>This is Contact Us page</h1>
2 <a href="/">Home</a> | <a href="/about">About</a> | <a href="/contact">Contact</a>
3

```

Output:



[Home](#) | [About](#) | [Contact](#)

Day_5: We learned about how to integrate Html with the backend as well as where to put htm and css files and how we can render the files. I learned about rendering engines and their work. How we can make our application dynamic using a rendering engine. Got to know about ejs rendering engine.

Task_5: Integrated a theme and used dynamic behaviour of rendering engines and made some changes to theme as per route as well as used container property of rendering engines.

Input:

The screenshot shows two open files in Visual Studio Code:

- app.js** (Top Editor):

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS JS app.js x
EXPLORER Day_5 > themintegration > app.js > ...
app.js (1) app.js Day_5...
Day_0 Day_1 Day_2 Day_3 Day_4 internship Day_5 themintegration
bin node_modules public routes views
error.ejs index.ejs main.ejs navbars.ejs
app.js (2) package-lock.json package.json
Day_6_practise Day_7_crud
master > OUTLINE > TIMELINE
        
```

```

app.js - 15 Days Internship - Visual Studio Code
1 var createError = require('http-errors');
2 var express = require('express');
3 var path = require('path');
4 var cookieParser = require('cookie-parser');
5 var logger = require('morgan');
6
7 var indexRouter = require('./routes/index');
8 var usersRouter = require('./routes/users');
9
10 var app = express();
11
12 // view engine setup
13 app.set('views', path.join(__dirname, 'views'));
14 app.set('view engine', 'ejs');
15
16 app.use(logger('dev'));
17 app.use(express.json());
18 app.use(express.urlencoded({ extended: false }));
19 app.use(cookieParser());
20 app.use(express.static(path.join(__dirname, 'public')));
21
22 app.use('/', indexRouter);
23 app.use('/users', usersRouter);
24
25 // catch 404 and forward to error handler
26 app.use(function(req, res, next) {
27   next(createError(404));
28 });
29
30 // error handler
31 app.use(function(err, req, res, next) {
32   // set locals only providing error in development
33   res.locals.message = err.message;
34   res.locals.error = req.app.get('env') === 'development' ? err : {};
35
36   // render the error page
37   res.status(err.status || 500);
38   res.render('error');
39 });
        
```
- index.js** (Bottom Editor):

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS JS index.js x
EXPLORER Day_5 > themintegration > routes > index.js > router.get('/contact') callback > txt2
index.js (1) index.js Day_5...
Day_0 Day_1 Day_2 Day_3 Day_4 internship Day_5 themintegration
bin node_modules public routes
error.ejs index.ejs main.ejs navbars.ejs
app.js (2) package-lock.json package.json
Day_6_practise Day_7_crud
master > OUTLINE > TIMELINE
        
```

```

index.js - 15 Days Internship - Visual Studio Code
1 var express = require('express');
2
3 const router = express.Router();
4
5 /* GET home page. */
6 router.get('/', function(req, res, next) {
7   res.render('index', { title: 'Welcome', txt1: 'You are at the right place', txt2: 'Avenger! Get Ready' });
8 }
9
10 router.get('/about', function(req, res, next) {
11   res.render('index', { title: 'About', txt1: 'You know everything about us', txt2: 'Are you illuminati?' });
12 }
13
14 router.get('/contact', function(req, res, next) {
15   res.render('index', { title: 'Contact', txt1: 'We are always with you', txt2: 'you are part of family' });
16 }
17
18 module.exports = router;
        
```

navbar.js - 15 Days Internship - Visual Studio Code

```

File Edit Selection View Go Run Terminal Help
EXPLORER OPEN EDITORS navbar.js
  × navbar.js Day_5...
  ✓ Day_0...
  ✓ Day_1...
  ✓ Day_2...
  ✓ Day_3...
  ✓ Day_4... internship
  ✓ Day_5... themenintegr...
  ✓ Day_6... node_modules
  ✓ Day_7... public
  ✓ routes
  ✓ index.js
  ✓ users.js
  ✓ views
  ✓ error.js
  ✓ index.ejs
  ✓ main.ejs
  ✓ navbar.js
  ✓ app.js
  ✓ package-lock.json
  ✓ package.json
  > Day_6... practice
  > Day_7... crud

```

Day_5 > themenintegration > views > navbar.js > div#navbar-main

```

1 <div id="navbar-main">
2   <!-- Fixed navbar -->
3   <div class="container-fluid navbar-default navbar-fixed-top">
4     <div class="navbar-header">
5       <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-collapse">
6         <i class="el-icon-lines"></i>
7       </button>
8     </div>
9     <div class="navbar-brand hidden-xs hidden-sm" href="#home">h1> Solitude</h1</a>
10    <div class="nav-collapse collapse">
11      <ul class="nav navbar-nav">
12        <li><a href="#home" class="smoothScroll">Home</a></li>
13        <li><a href="#about" class="smoothScroll">About</a></li>
14        <li><a href="#contact" class="smoothScroll">Contact</a></li>
15      </ul>
16    </div>
17  </div>
18 </div>
19 </div>
20 </div>

```

index.ejs - 15 Days Internship - Visual Studio Code

```

File Edit Selection View Go Run Terminal Help
EXPLORER OPEN EDITORS index.ejs
  × index.ejs Day_5...
  ✓ Day_0...
  ✓ Day_1...
  ✓ Day_2...
  ✓ Day_3...
  ✓ Day_4... internship
  ✓ Day_5... themenintegr...
  ✓ Day_6... node_modules
  ✓ Day_7... public
  ✓ routes
  ✓ index.js
  ✓ users.js
  ✓ views
  ✓ error.js
  ✓ index.ejs
  ✓ main.ejs
  ✓ navbar.js
  ✓ app.js
  ✓ package-lock.json
  ✓ package.json
  > Day_6... practice
  > Day_7... crud

```

Day_5 > themenintegration > views > index.ejs > html > body > > > > div.greywrap > div#about.container

```

35 <body data-spy="scroll" data-offset="0" data-target="#navbar-main">
36   <% include("navbar"); %>
37
38   <% include("main"); %>
39
40   <!-- SERVICES -->
41   <div class="greywrap">
42     <div class="container" id="about" name="about">
43       <div class="row">
44         <div class="col-md-4 col-sm-4 col-xs-6 callout">
45           <div class="col-md-3 service-icon-wrapper img-circle">
46             <i class="icon el-icon-time"></i>
47           </div>
48           <div class="col-md-9 fade-up service-info">
49             <h2>Were Fast</h2>
50             <p>Offending belonging promotion provision an be oh consulted ourselves it. Blessing welcomed ladyship she met hum
51           </div>
52
53           <div class="col-md-4 col-sm-4 col-xs-6 callout">
54             <div class="col-md-3 service-icon-wrapper img-circle">
55               <i class="icon el-icon-star"></i>
56             </div>
57             <div class="col-md-9 fade-up service-info">
58               <h2>Were The Best</h2>
59               <p>Certain but she but shyness why cottage. Gay the put instrument sir entreaties affronting. Pretended exquisite
60             </div>
61
62           <div class="col-md-4 col-sm-4 col-xs-6 callout">
63             <div class="col-md-3 service-icon-wrapper img-circle">
64               <i class="icon el-icon-user"></i>
65             </div>
66           </div>
67
68         </div>
69       </div>
70     </div>
71   </div>
72 </div>
73

```

index.ejs - 15 Days Internship - Visual Studio Code

```

File Edit Selection View Go Run Terminal Help
EXPLORER OPEN EDITORS index.ejs
  × index.ejs Day_5...
  ✓ Day_0...
  ✓ Day_1...
  ✓ Day_2...
  ✓ Day_3...
  ✓ Day_4... internship
  ✓ Day_5... themenintegr...
  ✓ Day_6... node_modules
  ✓ Day_7... public
  ✓ css
  ✓ fonts
  ✓ images
  ✓ javascripts
  ✓ js
  ✓ stylesheets
  ✓ routes
  ✓ index.js
  ✓ users.js
  ✓ views
  ✓ error.ejs
  ✓ index.ejs
  ✓ main.ejs
  ✓ navbar.js
  ✓ app.js
  ✓ package-lock.json
  ✓ package.json
  > Day_6... practice
  > Day_7... crud

```

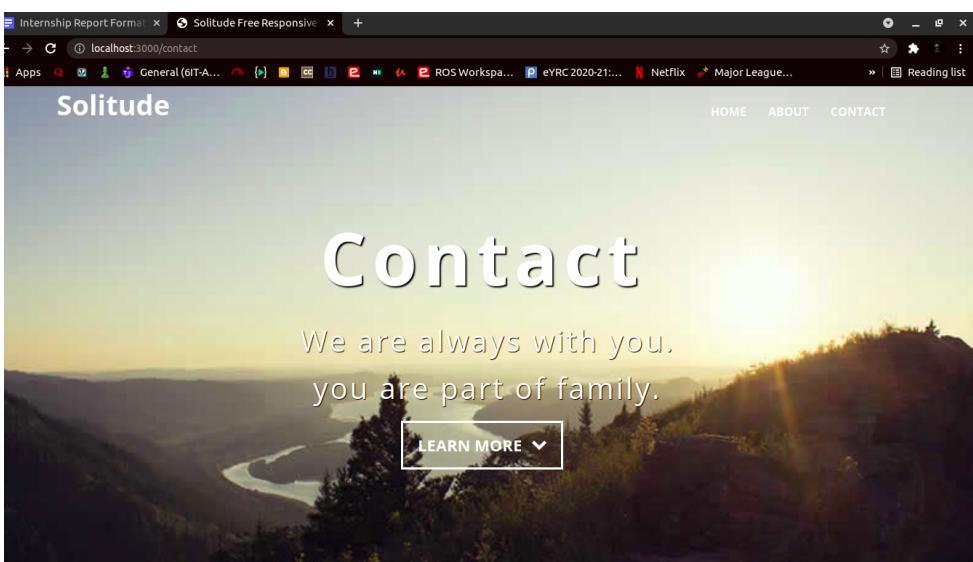
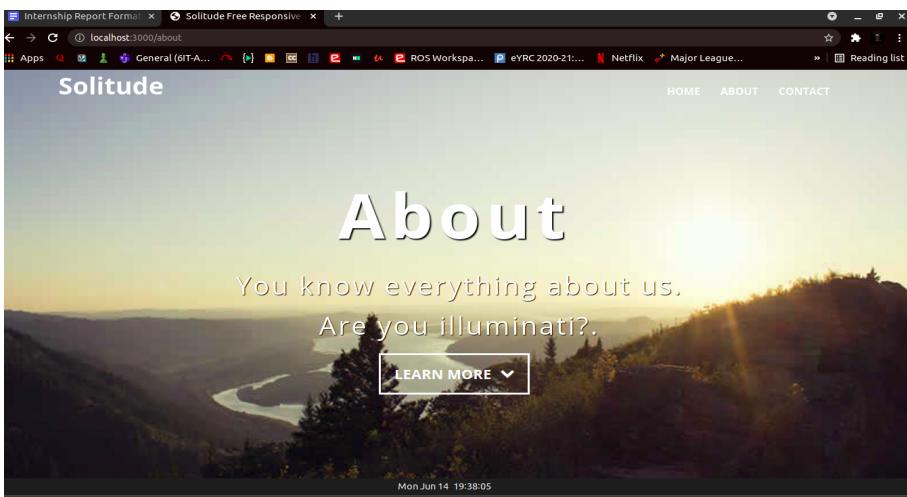
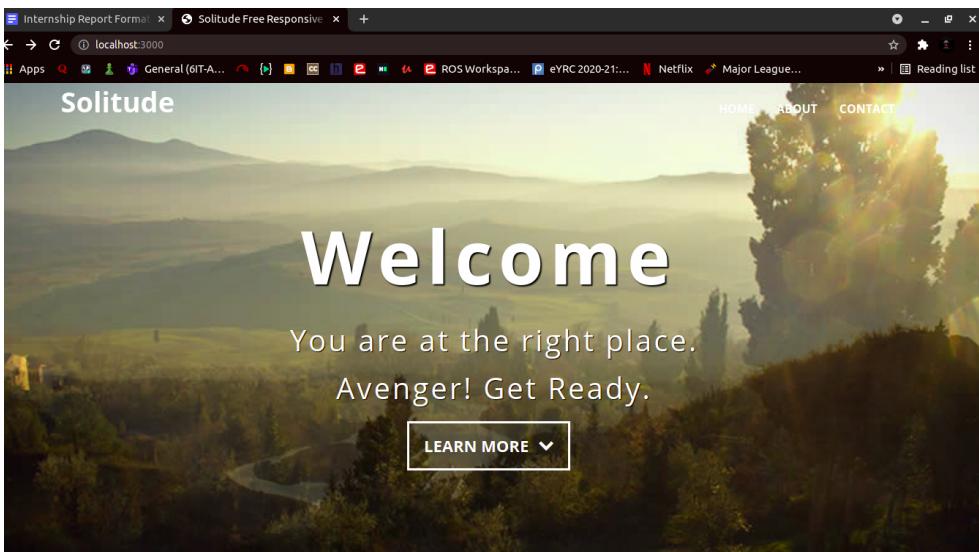
Day_5 > themenintegration > views > index.ejs > html > body > > > > div.greywrap > div#about.container

```

1 <!DOCTYPE html>
2 <!--
3   Solitude by TEMPLATE STOCK
4   templatestock.co @templatestock
5   Released for free under the Creative Commons Attribution 3.0 license (templated.co/license)
6 -->
7
8 <html lang="en">
9   <head>
10    <meta charset="utf-8">
11    <meta name="viewport" content="width=device-width, initial-scale=1.0">
12    <title>Solitude Free Responsive Template | Template Stock</title>
13
14    <!-- Bootstrap core CSS -->
15    <link href="css/bootstrap.css" rel="stylesheet">
16
17    <!-- Custom styles for this template -->
18    <link href="css/style.css" rel="stylesheet">
19    <link rel="stylesheet" href="css/elusivewebfont.css">
20    <link href="css/animate.css" rel="stylesheet">
21
22    <link href="http://fonts.googleapis.com/css?family=Open+Sans:300,400,700,300italic,400italic" rel="stylesheet" type="text/css">
23
24    <script src="js/jquery.min.js"></script>
25    <script type="text/javascript" src="js/modernizr.custom.js"></script>
26
27    <!-- HTML5 shim and Respond.js IE8 support of HTML5 elements and media queries -->
28    <!-- Iframes -->
29    <script src="js/html5shiv.js"></script>
30    <script src="js/respond.min.js"></script>
31  <!--[endif]-->
32
33  </head>
34
35  <body data-spy="scroll" data-offset="0" data-target="#navbar-main">
36
37
38
39

```

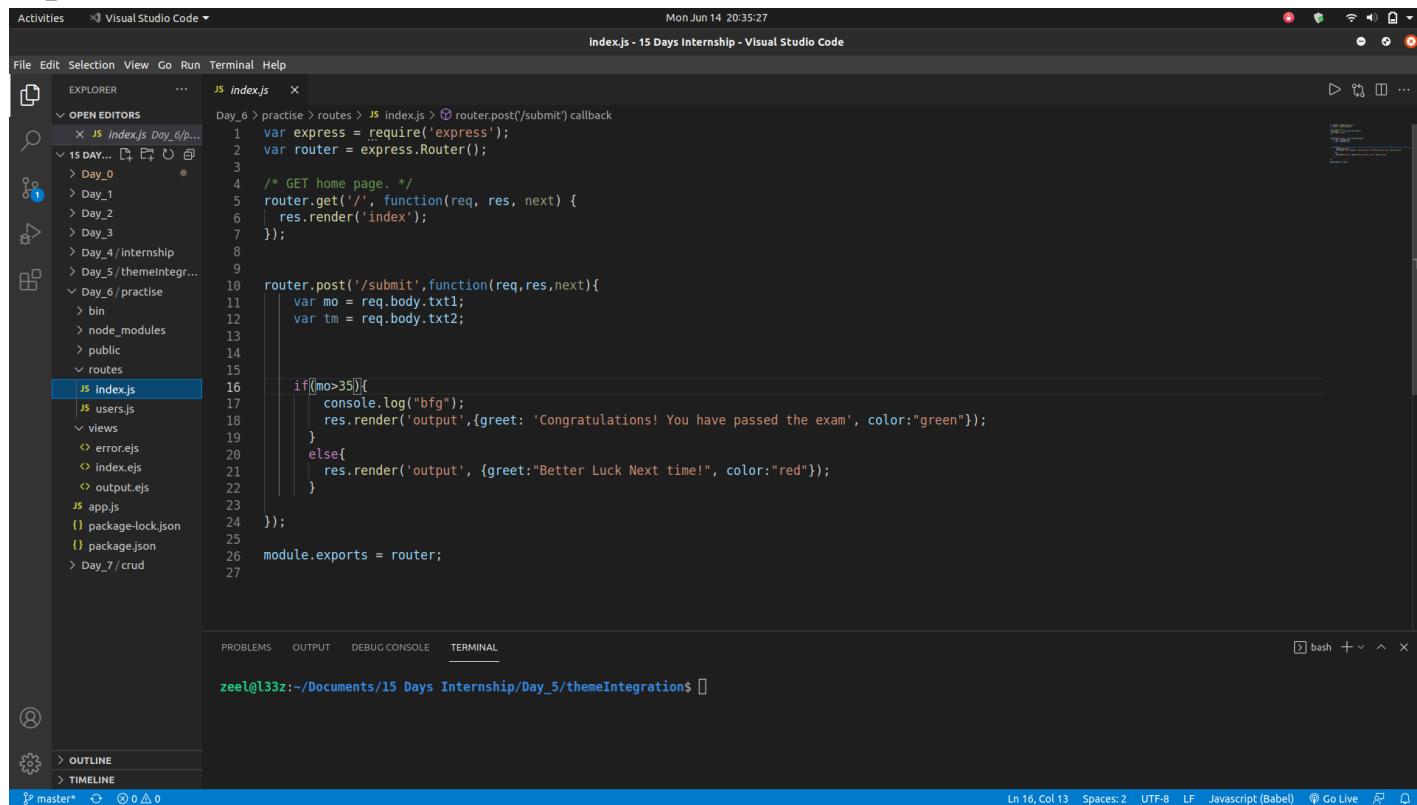
Output:



Day_6: After knowing so much about NodeJS, we got to know how we can use loops and comparison to output a view as per conditions, how we can also affect the css using backend and how we can use form and use conditionals in backend for the output. We can also pass the values from backend to the rendering engine.

Task_6: Performed conditional operation on values obtained through form and as per the result changed the background color and messages from backend to the rendering engine.

Input:



The screenshot shows the Visual Studio Code interface with the following details:

- Title Bar:** Activities > Visual Studio Code - Mon Jun 14 20:35:27 - index.js - 15 Days Internship - Visual Studio Code
- File Explorer:** Shows a project structure under "15 DAY...". The "index.js" file is selected.
- Editor:** Displays the content of "index.js":

```
Day_6 > practise > routes > index.js > router.post('/submit') callback
1 var express = require('express');
2 var router = express.Router();
3
4 /* GET home page. */
5 router.get('/', function(req, res, next) {
6   res.render('index');
7 });
8
9
10 router.post('/submit',function(req,res,next){
11   var mo = req.body.txt1;
12   var tm = req.body.txt2;
13
14
15   if(mo>35){
16     console.log("bfg");
17     res.render('output',{greet: 'Congratulations! You have passed the exam', color:"green"});
18   }
19   else{
20     res.render('output', {greet:"Better Luck Next time!", color:"red"});
21   }
22 });
23
24 });
25
26 module.exports = router;
27
```

- Terminal:** Shows the command "zeel@l33z:~/Documents/15 Days Internship/Day_5/themeIntegration\$".
- Bottom Status Bar:** Ln 16, Col 13 | Spaces: 2 | UTF-8 | LF | Javascript (Babel) | Go Live

Activities ➔ Visual Studio Code ▾ Mon Jun 14 20:35:31 Index.ejs - 15 Days Internship - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER index.ejs

```

OPEN EDITORS
Day_6 > practise > views > index.ejs > html > body > form > input
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  | <meta charset="UTF-8">
5  | <meta http-equiv="X-UA-Compatible" content="IE=edge">
6  | <meta name="viewport" content="width=device-width, initial-scale=1.0">
7  | <title>Result</title>
8  </head>
9  <body>
10 | <form action="/submit" method="POST">
11 |   <label for="">Your Marks</label>
12 |   <input type="number" name="txt1" required> <br>
13 |   <br>
14 |   <label for="">Total Marks</label>
15 |   <input type="number" name="txt2" required> <br>
16 |   <br>
17 |   | <button type="submit">submit</button>
18 | </form>
19 </body>
20 </html>

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

zeel@l33z:~/Documents/15 Days Internship/Day_5/themeIntegration\$

⑧

OUTLINE

Timeline

master* 0 0 △ 0

Activities ➔ Visual Studio Code ▾ Mon Jun 14 20:35:31 output.ejs - 15 Days Internship - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER output.ejs

```

OPEN EDITORS
Day_6 > practise > views > output.ejs > html > body
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  | <meta charset="UTF-8">
5  | <meta http-equiv="X-UA-Compatible" content="IE=edge">
6  | <meta name="viewport" content="width=device-width, initial-scale=1.0">
7  | <title>Output</title>
8  </head>
9  <body bgcolor="<%= color %>">
10 | <h1> <%= greet %> </h1>
11 |
12 | <button><a href="/">Go to form</a></button>
13 |
14 |
15 | </body>
16 </html>

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

zeel@l33z:~/Documents/15 Days Internship/Day_5/themeIntegration\$

⑧

OUTLINE

Timeline

master* 0 0 △ 0

Output:

The image consists of two vertically stacked screenshots of a web browser window. Both screenshots show the same URL, `localhost:3000`, in the address bar.

Screenshot 1 (Top): Internship Report Form - Result

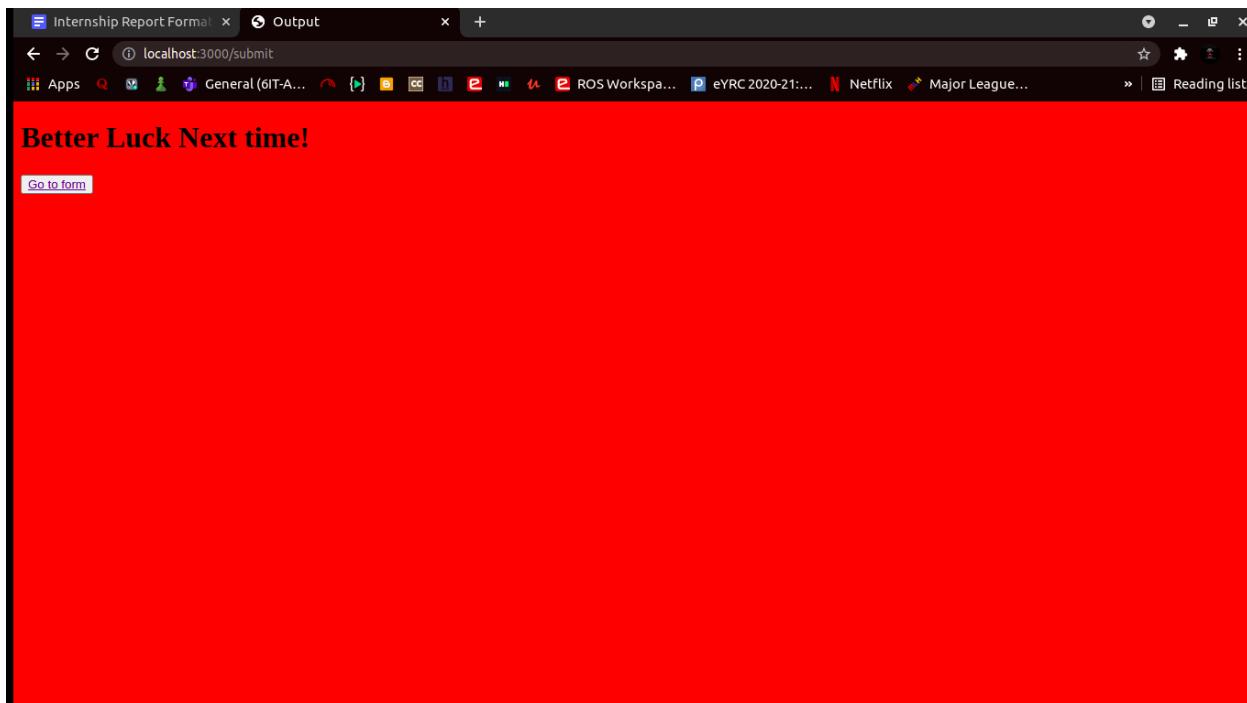
This screenshot shows a simple HTML form. It has two input fields: "Your Marks" containing "80" and "Total Marks" containing "100". Below the inputs is a "submit" button.

Screenshot 2 (Bottom): Internship Report Form - Output

This screenshot shows the result of the submission. The page displays the message "Congratulations! You have passed the exam" in large green text. At the bottom left, there is a small blue link labeled "Go to form".

Your Marks

Total Marks



Day_7: Combined mysql DataBase with Backend, used mysql server to connect with database, got to know about CRUD operations and how to perform them, How we can use database to store data and when to use get & post request and how to display the database info to the user using for loop and how to perform SQL queries and some plus points of hyperlink.

Task_7: Performed CRUD operation on DataBase of books having ID, Book_Name, Author_Name and price. Connected mysql database using mysql server.

Input:

```

Mon Jun 14 20:57:12
app.js - 15 Days Internship - Visual Studio Code

File Edit Selection View Go Run Terminal Help
EXPLORER OPEN EDITORS
X 15 Days Internship
> Day_0
> Day_1
> Day_2
> Day_3
> Day_4 internship
> Day_5 themenrege...
> Day_6 practice
> Day_7 crud
> bin
> node_modules
> public
> routes
> views
# app.js
# db.js
! package-lock.json
! package.json

Mon Jun 14 20:57:15
db.js - 15 Days Internship - Visual Studio Code

File Edit Selection View Go Run Terminal Help
EXPLORER OPEN EDITORS
X 15 Days Internship
> Day_0
> Day_1
> Day_2
> Day_3
> Day_4 internship
> Day_5 themenrege...
> Day_6 practice
> Day_7 crud
> bin
> node_modules
> public
> routes
> views
# app.js
# db.js
! package-lock.json
! package.json

```

app.js Content:

```

1 var createError = require('http-errors');
2 var express = require('express');
3 var path = require('path');
4 var cookieParser = require('cookie-parser');
5 var logger = require('morgan');
6
7
8 var indexRouter = require('./routes/index');
9 var usersRouter = require('./routes/users');
10
11 var app = express();
12
13 // view engine setup
14 app.set('views', path.join(__dirname, 'views'));
15 app.set('view engine', 'ejs');
16
17 app.use(logger('dev'));
18 app.use(express.json());
19 app.use(express.urlencoded({ extended: false }));
20 app.use(cookieParser());
21 app.use(express.static(path.join(__dirname, 'public')));
22
23 app.use('/', indexRouter);
24 app.use('/users', usersRouter);
25
26 // catch 404 and forward to error handler
27 app.use(function(req, res, next) {
28   next(createError(404));
29 });
30
31 // error handler
32 app.use(function(err, req, res, next) {
33   // set locals, only providing error in development
34   res.locals.message = err.message;
35   res.locals.error = req.app.get('env') === 'development' ? err : {};
36
37 // render the error page
38 res.status(err.status || 500);
39 res.render('error');

```

db.js Content:

```

1 var mysql = require('mysql');
2
3 var con = mysql.createConnection({
4   host: "localhost",
5   user: "root",
6   password: "password",
7   database: "books"
8 });
9
10
11 con.connect(function(err) {
12   if (err) throw err;
13   console.log("Connected!");
14 });
15
16
17 module.exports = con;

```

Activities Visual Studio Code Mon Jun 14 20:57:20

File Edit Selection View Go Run Terminal Help

EXPLORER ... JS index.js ×

OPEN EDITORS Day_7 > crud > routes > index.js > router.post('/edit/:id') callback > aname

1 var express = require('express');
2 var router = express.Router();
3 var db = require('../db');
4
5 /* GET home page. */
6 router.get('/', function(req, res, next) {
7 res.render('index');
8 });
9
10 router.get('/add', function(req, res, next) {
11 res.render('add');
12 };
13
14 router.post('/add-process', function(req, res, next) {
15
16 const mybodydata = {
17 bookId: req.body.BookId,
18 Title: req.body.name,
19 author: req.body.authorname,
20 price: req.body.price
21 }
22
23 db.query("insert into books set ?",mybodydata,function(err,result){
24 if(err) console.log(err);
25 res.redirect('/add');
26 })
27
28 };
29
30 router.get('/display',function(req,res,next){
31
32 db.query("select * from books ",function(err,db_rows){
33 if(err) throw err;
34
35 res.render('display',{db_rows.array:db_rows});
36 })
37
38 });
39

OUTLINE
TIMELINE

master* ① ② ③ ④ ⑤

Ln 76, Col 29 Spaces: 2 UTF-8 LF Javascript (Babel) Go Live

Activities Visual Studio Code Mon Jun 14 20:57:40

File Edit Selection View Go Run Terminal Help

EXPLORER ... JS index.js ×

OPEN EDITORS Day_7 > crud > routes > index.js > router.get('/delete/:id',function(req,res,next){ Day_7 > crud > routes > index.js > router.get('/edit/:id',function(req,res,next){ Day_7 > crud > routes > index.js > router.post('/edit/:id') callback > aname

44 router.get('/delete/:id',function(req,res,next){
45 var deleteid = req.params.id;
46 console.log(deleteid);
47 db.query("delete from books where bookId = ?",[deleteid],function(err,db_rows){
48 if(err) throw err;
49 console.log(db_rows);
50 res.redirect('/display');
51 });
52
53 router.get('/edit/:id',function(req,res,next){
54 var editid = req.params.id;
55 console.log(editid);
56 db.query("select * from books where bookId = ?",[editid],function(err,db_rows){
57 if(err) throw err;
58 res.render('edit',{db_rows.array:db_rows});
59 });
60
61 router.post('/edit/:id',function(req,res,next){
62 var editid = req.params.id;
63
64 var name = req.body.name;
65 var aname = req.body.authorname;
66 var price = req.body.price;
67
68 console.log(editid);
69 db.query("update books set Title = ?, author = ?, price = ? where bookId = ?',[name, aname, price, editid],function(err,db_rows){
70 if(err) throw err;
71 console.log(err);
72 res.redirect('/display');
73 });
74
75 });
76
77 module.exports = router;

OUTLINE
TIMELINE

master* ① ② ③ ④ ⑤

Ln 76, Col 29 Spaces: 2 UTF-8 LF Javascript (Babel) Go Live

Activities > Visual Studio Code > add.ejs - 15 Days Internship - Visual Studio Code

```

File Edit Selection View Go Run Terminal Help
EXPLORER ... add.ejs x
OPEN EDITORS Day_7 > crud > views > add.ejs > head > style > input[type=text]
15 DAYS INTERSHIP Day_0 Day_1 Day_2 Day_3 Day_4 / internship Day_5 / themenintegr... Day_6 / practise Day_7 / crud bin node_modules public routes index.js users.js views add.ejs display.ejs edit.ejs error.ejs index.ejs app.js db.js package-lock.json package.json
Day_7 > crud > views > add.ejs > head > style > input[type=text]
41 width: 100%; opacity: 0.9;
42 .registerbtn:hover {
43   opacity: 1;
44 }
45 
```

Day_7 > crud > views > add.ejs > body > form method="POST" action="/add-process"
50 <div class="container">
51 <center> <h1> Books Form</h1> </center>
52 <hr>
53 <label> BookID </label>
54 <input type="number" name="BookId" placeholder="Book ID" required />
55 <label> Book Name: </label>
56 <input type="text" name="name" placeholder="Book Name" size="15" required />
57 <label> Author Name: </label>
58 <input type="text" name="authorname" placeholder="Author Name" size="15" required />
59 <label> Price in </label>
60 <input type="number" name="price" placeholder="Enter price here" required>
61 <button type="submit" class="registerbtn">Register</button>
62 </body>
63 </form>
64 </div>
65 </html>

Ln 18, Col 26 Spaces: 2 UTF-8 LF HTML Go Live

Activities > Visual Studio Code > display.ejs - 15 Days Internship - Visual Studio Code

```

File Edit Selection View Go Run Terminal Help
EXPLORER ... display.ejs x
OPEN EDITORS Day_7 > crud > views > display.ejs > table > tr > td > a
15 DAY... Day_0 Day_1 Day_2 Day_3 Day_4 / internship Day_5 / themenintegr... Day_6 / practise Day_7 / crud bin node_modules public routes index.js users.js views add.ejs display.ejs edit.ejs error.ejs index.ejs app.js db.js package-lock.json package.json
Day_7 > crud > views > display.ejs > table > tr > td > a
1 <% if(db_rows_array.length > 0){ %>
2   <table border="1">
3     <tr>
4       <th>ID</th>
5       <th>Name</th>
6       <th>Author</th>
7       <th>Price</th>
8       <th>Action</th>
9     </tr>
10      <% for(var i=0; i< db_rows_array.length;i++){ %>
11        <tr>
12          <td><%= db_rows_array[i].bookId %></td>
13          <td><%= db_rows_array[i].Title %></td>
14          <td><%= db_rows_array[i].author %></td>
15          <td><%= db_rows_array[i].price %></td>
16          <td> <a href="/edit/<%= db_rows_array[i].bookId %>">Edit</a> | <a href="/delete/<%= db_rows_array[i].bookId %>">Delete</a></td>
17        </tr>
18      <% }else{ %>
19        No Records Found
20      <% } %>
21    </table>
22  <% }else{ %>
23    No Records Found
24  <% } %>
25  <h1><a href="/add">Add Books</a></h1>
26
27
28
29
30

```

Ln 19, Col 38 Spaces: 4 UTF-8 LF HTML Go Live

Activities > Visual Studio Code >

File Edit Selection View Go Run Terminal Help

edit.ejs - 15 Days Internship - Visual Studio Code

```

EXPLORER ... edit.ejs x
OPEN EDITORS Day_7 crud views edit.ejs html body
edit.ejs Day_7 crud views edit.ejs html body
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 <body>
10  <h2><a href="/add">Add Books</a></h2>
11  <h2><a href="/display">Display Books</a></h2>
12  </body>
13 </html>
14

```

Day_7 > crud > views > edit.ejs > html > body

File Edit Selection View Go Run Terminal Help

edit.ejs - 15 Days Internship - Visual Studio Code

```

EXPLORER ... edit.ejs x
OPEN EDITORS Day_7 crud views edit.ejs html body
edit.ejs Day_7 crud views edit.ejs html body
47 </body>
48 </head>
49 <body>
50 <form method="POST">
51   <div class="container">
52     <center> <h1> Edit Records </h1> </center>
53     <hr>
54     <label> BookID </label>
55     <input type="number" name="BookId" placeholder="Book ID" value="<%= db_rows_array[0].bookId %>" required />
56     <label> Book Name: </label>
57     <input type="text" name="name" placeholder="Book Name" size="15" value="<%= db_rows_array[0].Title %>" required />
58     <label> Author Name: </label>
59     <input type="text" name="authorname" placeholder="Author Name" size="15" value="<%= db_rows_array[0].author %>" required />
60     <label> Price in :</label>
61     <input type="number" name="price" placeholder="Enter price here" value="<%= db_rows_array[0].price %>" required>
62     <button type="submit" class="registerbtn">submit</button>
63   </form>
64 </body>
65 </html>

```

Day_7 > crud > views > edit.ejs > html > body

File Edit Selection View Go Run Terminal Help

index.ejs - 15 Days Internship - Visual Studio Code

```

EXPLORER ... index.ejs x
OPEN EDITORS Day_7 crud views index.ejs html body
index.ejs Day_7 crud views index.ejs html body
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 <body>
10  <h2><a href="/add">Add Books</a></h2>
11  <h2><a href="/display">Display Books</a></h2>
12  </body>
13 </html>
14

```

Day_7 > crud > views > index.ejs > html > body

Output:

The image contains two screenshots of a web application interface, likely a React application running on localhost:3000.

Screenshot 1: Add Books

This screenshot shows a simple form with two buttons:

- Add Books** (in blue)
- Display Books** (in red)

Screenshot 2: Books Form

This screenshot shows a more complex form with the following fields:

- BookID:** 11
- Book Name:** Concepts of Physics
- Author Name:** H C Verma
- Price in :** 1599

A green button at the bottom right is labeled **Register**.

Internship Report Format x localhost:3000/add +

localhost:3000/add

Apps Q General (6IT-A... { } CC Netflix Major League...

Books Form

BookID: 11

Book Name: Concepts of Physics

Author Name: H C Verma

Price in : 1599

Register

Internship Report Format x localhost:3000/display +

localhost:3000/display

Apps Q General (6IT-A... { } CC Netflix Major League...

ID	Name	Author	Price	Action
1	The 5 AM club	Robin Sharma	499	Edit Delete
2	Rich Dad and Poor Dad	Annonymus	69	Edit Delete
3	admin	Unknown	450	Edit Delete
4	Zeel Pathak	Robin Sharma	1000	Edit Delete
5	How I met your mother	Zeel Pathak	11	Edit Delete
11	Concepts of Physics	H C Verma	1599	Edit Delete

Add Books

Internship Report Format x localhost:3000/display +

localhost:3000/display

Apps Q General (6IT-A... { } CC Netflix Major League...

ID	Name	Author	Price	Action
1	The 5 AM club	Robin Sharma	499	Edit Delete
2	Rich Dad and Poor Dad	Annonymus	69	Edit Delete
4	Zeel Pathak	Robin Sharma	1000	Edit Delete
5	How I met your mother	Zeel Pathak	11	Edit Delete
11	Concepts of Physics	H C Verma	1599	Edit Delete

Add Books

ID	Name	Author	Price	Action
1	The 5 AM club	Robin Sharma	499	Edit Delete
2	Rich Dad and Poor Dad	Anonymus	69	Edit Delete
4	Zeel Pathak	Robin Sharma	1000	Edit Delete
5	How I met your mother	Zeel Pathak	11	Edit Delete
11	Concepts of Physics	H C Verma	1599	Edit Delete

Add Books

BookID
11

Book Name:
Concepts of Physics

Author Name:
H C Verma

Price in :
1699

ID	Name	Author	Price	Action
1	The 5 AM club	Robin Sharma	499	Edit Delete
2	Rich Dad and Poor Dad	Anonymus	69	Edit Delete
4	Zeel Pathak	Robin Sharma	1000	Edit Delete
5	How I met your mother	Zeel Pathak	11	Edit Delete
11	Concepts of Physics	H C Verma	1699	Edit Delete

Add Books

```
zeel@l33z: ~
You can turn off this feature to get a quicker startup with -A
Database changed
mysql> SHOW table
-> SHOW table;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near 'SHOW
table' at line 2
mysql> SHOW books;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near 'books
' at line 1Price in :
mysql> DESCRIBE books;
+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| bookId | int       | YES  |     | NULL    |          |
| Title   | varchar(255) | YES  |     | NULL    |          |
| author  | varchar(255) | YES  |     | NULL    |          |
| price   | int       | YES  |     | NULL    |          |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> 

| ID | Name                  | Author       | Price | Action                                        |
|----|-----------------------|--------------|-------|-----------------------------------------------|
| 1  | The 5 AM club         | Robin Sharma | 499   | <a href="#">Edit</a>   <a href="#">Delete</a> |
| 2  | Rich Dad and Poor Dad | Anonymous    | 69    | <a href="#">Edit</a>   <a href="#">Delete</a> |


```