|  |
| --- |
| **Write in NodeJS Observation**  **Note Book** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| |  | | --- | |  | | **ANURAG ENGINEERING COLLEGE**  An Autonomous Institution (Affiliated to JNTUH-Hyderabad,Approved by AICTE-New Delhi) ANANTHAGIRI (V) (M), SURYAPET (D), TELANGANA-508206 | |  | | --- | | **CSE(AI&ML)** | |

**SKILL DEVELOPMENT COURSE (NODE JS)**

**II Year B.Tech. CSE (AI & ML)- I Sem**

**Exercises:**

1. Build a responsive web application for shopping cart with registration, login, catalog and cart pages using CSS3 features, flex and grid.
2. Make the above web application responsive web application using Bootstrap framework.
3. Use JavaScript for doing client – side validation of the pages implemented in experiment 1 and experiment 2.
4. Explore the features of ES6 like arrow functions, callbacks, promises, async/await. Implement an application for reading the weather information from openweathermap.org and display the information in the form of a graph on the web page.
5. Develop a java standalone application that connects with the database (Oracle / mySql) and perform the CRUD operation on the database tables.
6. Create an xml for the bookstore. Validate the same using both DTD and XSD.
7. Design a controller with servlet that provides the interaction with application developed in experiment 1 and the database created in experiment 5.
8. Maintaining the transactional history of any user is very important. Explore the various Sessiontracking mechanism (Cookies, HTTP Session)
9. Create a custom server using http module and explore the other modules of Node JS like OS,path, event.
10. Develop an express web application that can interact with REST API to perform CRUD operations on student data. (Use Postman)
11. For the above application create authorized end points using JWT (JSON Web Token).
12. Create a react application for the student management system having registration, login, contact, about pages and implement routing to navigate through these pages.
13. Create a service in react that fetches the weather information from openweathermap.org and the display the current and historical weather information using graphical representation using chart.js
14. Create a TODO application in react with necessary components and deploy it into github.
15. **Build a responsive web application for shopping cart with registration, login, catalog and cart pages using CSS3 features, flex and grid.**

**AIM:** Build a responsive web application for shopping cart with registration, login, catalog and cart pages using CSS3 features, flex and grid.

**DESCRIPTION:** HTML, CSS, and JavaScript are essential components for creating a functional responsive web application. A condensed example of a shopping cart with registration, login, catalogue, and cart pages is provided.

**Project Structure:**

1. index.html - Main HTML file containing the structure of the web application.
2. registration.html – This file contains about registration details
3. login.html – This file contains about login details
4. cart.html - This file contains about cart details
5. styles.css - CSS file for styling the web pages.
6. images/ - Folder for storing images.
7. **index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<link rel="stylesheet" href="style.css">

<title>Home - BOOKISH</title>

</head>

<body>

<div class="wrapper">

<div class="container">

<header>

<img src="BookishLogo.jpg" alt="BOOKISH LOGO" width="120" height="90" />

<h1 style="color:white;">BOOKISH - BEST ONLINE EBOOK STORE READ &

EXPLORE</h1>

</header>

<nav>

<a href="index.html">Home</a>

<a href="login.html">Login</a>

<a href="registration.html">Registration</a>

<a href="cart.html" >Cart</a>

</nav>

</div>

<div class="container1">

<div class="sidebar1"></div>

<div class="container2">

<main>

<center>

<h2>Welcome to Bookish e-Book Website</h2>

<p>Shopping at <font size=5>BOOKISH</font> can be both <font size=5>fun</font>

and <font size=5>savings</font>.</br>Shop with us in this special <font

size=5>discount</font> season and save upto <font size=5>90%</font> on all your

purchases.</br>

</p>

<br/><br/><br/><br/><br/><br/><br/><br/>

</main>

</div>

<div class="sidebar2"></div>

</div>

<footer>

<font color="white">&copy; 2024 All rights reserved by Bookish ebooks</font>

</footer>

</div>

</body>

</html>

1. **registration.html**

<!DOCTYPE html>

<html lang="en">

<head>

<link rel="stylesheet" href="style.css">

<title>Registration - Bookish</title>

</head>

<body>

<div class="wrapper">

<div class="container">

<header>

<img src="BookishLogo.jpg" alt="BOOKISH LOGO" width="120" height="90"/>

<h1 style="color:white;">BOOKISH - BEST ONLINE EBOOK STORE READ & EXPLORE</h1>

</header>

<nav>

<a href="index.html">Home</a>

<a href="login.html">Login</a>

<a href="registration.html">Registration</a>

<a href="cart.html" >Cart</a>

</nav>

</div>

<div class="container1">

<div class="sidebar1"></div>

<div class="container2">

<main>

<center><br>

<h1>Registration Form </h1>

<br/>

<form>

<table cellpadding="1" align="center" style="font-size:15px;">

<tr>

<td> Name:\*</td>

<td><input type="text" name="username"></td>

</tr>

<tr>

<td>Password:\*</td>

<td><input type="password" name="password"></td>

</tr>

<tr>

<td>Email ID:\*</td>

<td><input type="text" name="email"></td>

</tr>

<tr>

<td>Phone Number:\*</td>

<td><input type="text" name="phno"></td>

</tr>

<tr>

<td valign="top">Gender:\*</td>

<td><input type="radio" name="radio" value="1">Male &nbsp;&nbsp;

<input type="radio" name="radio" value="2">Female</td>

</tr>

<tr>

<td valign="top">Language Known:\*</td>

<td> <input type="checkbox" name="checkbox" value="English">English<br/>

<input type="checkbox" name="checkbox" value="Telugu">Telugu<br>

<input type="checkbox" name="checkbox" value="Hindi">Hindi<br>

<input type="checkbox" name="checkbox" value="Tamil">Tamil

</td>

</tr>

<tr> <td valign="top">Address:\*</td>

<td><textarea name="address"></textarea></td>

<tr><td></td><td><input type="submit" value="submit" hspace="10">

<input type="reset" value="reset"></td>

</tr>

<tr> <td colspan=2 >\*<font color="red">fields are mandatory</font>

</td>

</tr>

</table>

</form>

</center>

</main>

</div>

<div class="sidebar2">

</div>

</div>

<footer>

<font color="white">&copy; 2024 All rights reserved by Bookish ebooks</font>

</footer>

</div>

</body>

</html>

1. **login.html**

<!DOCTYPE html>

<html lang="en">

<head>

<link rel="stylesheet" href="style.css">

<title>Login - Bookish</title>

</head>

<body>

<div class="wrapper">

<div class="container">

<header>

<img src="BookishLogo.jpg" alt="BOOKISH LOGO" width="120" height="90"/>

<h1 style="color:white;">BOOKISH - BEST ONLINE EBOOK STORE READ & EXPLORE</h1>

</header>

<nav>

<a href="index.html">Home</a>

<a href="login.html">Login</a>

<a href="registration.html">Registration</a>

<a href="cart.html" >Cart</a>

</nav>

<div class="container1">

<div class="sidebar1"></div>

<div class="container2">

<main>

<center><br>

<h1> Login Details</h1> <br/>

<form>

<table width="100%" align="center" style="font-size:15px;">

<tr>

<td font> User Name : </td>

<td> <input type="text" name="username"></td>

</tr>

<tr><td><br></td></tr>

<tr>

<td> Password : </td>

<td> <input type="password" name="password"></td>

</tr>

<tr><td><br></td></tr>

<tr><td></td>

<td><input type="submit" value="SUBMIT">

<input type="reset" value="RESET"></td>

</tr>

</table>

</form>

</center>

</main>

</div>

<div class="sidebar2"></div>

</div>

<footer>

<font color="white">&copy;2024 All rights reserved by Bookish ebooks</font>

</footer>

</div>

</body>

</html>

1. **cart.html**

<!DOCTYPE html>

<html lang="en">

<head>

<link rel="stylesheet" href="./style.css">

<title>Cart - Bookish</title>

</head>

<body>

<div class="wrapper">

<div class="container">

<header>

<img src="BookishLogo.jpg" alt="BOOKISH LOGO" width="120" height="90"/>

<h1 style="color:white;">BOOKISH - BEST ONLINE EBOOK STORE READ & EXPLORE</h1>

</header>

<nav>

<a href="index.html">Home</a>

<a href="login.html">Login</a>

<a href="registration.html">Registration</a>

<a href="cart.html" >Cart</a>

</nav>

</div>

<div class="container1">

<div class="sidebar1"></div>

<div class="container2">

<main>

<center>

<h1>Cart</h1>

<table border=2px height=250 width=300 align="center" style="font-size:15px;" >

<tbody align="center">

<tr>

<th>BookName</th>

<th>Price</th>

<th>Quantity</th>

<th>Amount</th>

</tr>

<tr>

<td>Python Programming</td>

<td>Rs. 3500/-</td>

<td>2</td>

<td>Rs. 7000/-</td>

</tr>

<tr>

<td>NodeJS</td>

<td>Rs. 3000/-</td>

<td>1</td>

<td>Rs. 3000/-</td>

</tr>

<tr>

<td colspan="3" align="center">

<font color="brown">Total Amount:</font></td>

<td>Rs. 7600/-</td>

</tr>

</tbody>

</table>

</center>

</main>

</div>

<div class="sidebar2"></div>

</div>

<footer>

<font color="white">&copy;2024 All rights reserved by Bookish ebooks</font>

</footer>

</div>

</body>

</html>

1. **style.css**

body {

font-family: monospace;

}

main {

background-color: LightGray;

color: maroon;

margin-left: 10px;

height: 60vh;

}

header, footer {

background-color: midnightblue;

color: White;

padding: 1rem;

height: 50px;

}

header, nav {

margin-bottom: 10px;

flex-basis: 50%;

}

footer {

margin-top: 10px;

font-size: 15px;

}

nav {

background-color: White;

color: Black;

padding: 1rem;

height: 20px;

display: flex;

gap: 120px;

padding: 20px;

font-size: 23px;

}

**.**sidebar1, **.**sidebar2 {

flex-basis: 10%;

background-color: White;

color: Black;

}

**.**sidebar2 {

margin-left: 10px;

}

**.**container1 {

display: flex;

}

**.**container2 {

display: flex;

flex-direction: column;

flex: 1;

}

header, nav, main, .sidebar1, .sidebar2, footer {

display: flex;

align-items: center;

justify-content: center;

border-radius: 10px;

}

**.**wrapper {

display: flex;

flex-direction: column;

font-weight: 600;

}