LIST OF PROGRAMS

1. Develop a static website using HTML Tables
2. Develop a static website using DIV and CSS
3. Develop a registration page using HTML forms
4. Develop a dynamic web page using Javascript
5. Write a JavaScript program to validate the registration form
6. Create a dynamic web page using Javascript event handling and DOM manipulation.
7. Demonstrate working of built-in node.js modules and file system.
8. Demonstrate routes and parameter handling in Express.js
9. Write a program to implement MVC architecture
10. Demonstrate rendering HTML and JSX using React.js
11. Demonstrate use of props, events, lists, forms using React.js
12. Create a Single Page Application (SPA) using REST service.
13. Write a Node.js program to create DB and Collections in MongoDB
14. Write a react.js program to retrieve data from MongoDB
15. Write a react.js program to insert, update and delete data in MongoDB

Javascript runtime environment: Node.js

Web Application Framework: Express.js

Front-end Javascript Library: React.js

No-SQL Database: MongoDB

Instructions to be followed for implementation of the programs:

1. Develop a static website using HTML Tables
    a. Use table tags for layout of the web pages
    b. Must include enough content and links for other web pages
    c. Must include an image in each webpage
2. Develop a static website using DIV and CSS
    a. Use div tags for layout of the web pages
    b. Use CSS for styling
    c. Must include inline, internal and external CSS styles
3. Develop a registration page using HTML forms

a. Use text field, password field, dropdown list, listbox, radio buttons, checkboxes, textarea, submit and reset button.

4. Develop a dynamic web page using Javascript

    a. Use date object for displaying date and greetings

    b. Use math object to generate lucky random number

    c. Display last modified information about the webpage

5. Write a JavaScript program to validate the registration form

    a. Include field not empty validation

    b. Include password and confirm password match validation

    c. Include name content validation

    d. Include phone number formation validation

    e. Include email format validation

6. Create a dynamic web page using Javascript event handling and DOM manipulation.

    a. Use event handling for load, submit, focus and blur events

    b. Use DOM for handling mouseover, mouseout and click events

7. Demonstrate working of built-in node.js modules and file system.

    a. Use http module

    b. Use os module: display Platform, Architecture, Hostname and OS type

    c. Use fs module: implement readFileSync, open, write, append and rename

8. Demonstrate routes and parameter handling in Express.js

    a. Create Routes folder and have login and signup pages in the application

    b. Implement routes logic from index.js file

    c. Retrieve username from the request parameters and display

9. Write a program to implement MVC architecture

    a. Create data model using arrays with students sample data

    b. Create views folder with ejs file

    c. Write controller logic

10. Demonstrate rendering HTML and JSX using React.js

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