Thank you for your interest in our internship opening. As a next step, we are expecting you to complete a short assignment.

Assignments (Out of 3 assignments attempt **any one**).

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**Assignment 1: Simple Quiz Application**

Description:

You are required to build a simple quiz application using HTML, CSS, and JavaScript. The application should allow users to attempt a quiz with multiple-choice questions and provide immediate feedback on their answers.

Details of Task 1:

Front-End Development:

a. Create an HTML structure for the quiz page, including a question container, options for each question, a submit button, and a result container to display the score.

b. Use CSS to style the quiz page, making it visually appealing.

Quiz Questions:

a. Define an array of multiple-choice questions, each with a question statement, options, and the correct answer.

b. Display the first question and its options when the quiz page loads.

Answer Submission:

a. Implement JavaScript functionality to allow users to select an option for each question.

b. Provide a submit button to let users submit their answers after attempting all the questions.

Scoring and Feedback:

a. Calculate the user's score based on the number of correct answers.

b. Display the score and provide feedback (e.g., "You scored 4 out of 5! Great job!") in the result container after the user submits the quiz.

Quiz Reset:

a. Add a "Restart Quiz" button that allows users to retake the quiz.

Bonus Tasks (Optional, for more advanced students):

Timer:

Implement a timer that sets a time limit for each question and automatically submits the quiz when the time is up.

Random Questions:

Randomize the order of questions each time the quiz is taken.

Quiz Categories:

Add the ability for users to choose a specific category of questions (e.g., General Knowledge, History, Science) before starting the quiz.

User Authentication:

Create a simple user authentication system using JavaScript to allow users to log in and track their quiz scores.

Quiz Review:

Allow users to review their answers after completing the quiz, showing which questions they answered correctly and incorrectly.

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**Assignment 2: File Management System**

Description:

You are required to build a simple file management system using JavaScript and Node.js. The application should allow users to perform basic file operations such as creating, reading, updating, and deleting files.

Tasks:

File Creation:

a. Implement a function that allows the user to create a new file.

b. Prompt the user to enter the file name and content through the command line.

c. Save the file with the provided name and content on the server.

File Reading:

a. Implement a function that allows the user to read the contents of a specific file.

b. Prompt the user to enter the file name they want to read through the command line.

c. Display the content of the file on the console.

File Updating:

a. Implement a function that allows the user to update the contents of a specific file.

b. Prompt the user to enter the file name they want to update and the new content through the command line.

c. Update the file with the new content on the server.

File Deletion:

a. Implement a function that allows the user to delete a specific file.

b. Prompt the user to enter the file name they want to delete through the command line.

c. Delete the file from the server.

File Listing:

a. Implement a function that lists all the files in the current directory.

b. Display the list of files on the console.

Bonus Tasks (Optional, for more advanced students):

Directory Management:

Extend the file management system to allow users to create, delete, and navigate directories (folders).

File Permissions:

Implement a simple file permission system (e.g., read, write, execute) for each file and directory.

Search Functionality:

Add a search feature that allows users to search for files based on their names or content.

Error Handling:

Improve error handling in the application to handle cases like invalid file names, file not found, etc.

File History:

Implement a version control system that tracks the history of changes made to each file.

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**Assignment 3:**

**Part (A): Simple Recipe Manager**

a. User can add a recipe with a title and description.

b. Recipes should have a list of ingredients and their quantities.

c. Can view a list of all recipes in alphabetical order of titles.

>Can filter recipes with the title.

>Can filter recipes with specific ingredients.

d. Can delete a recipe.

e. Can edit a recipe and update its title, description, or ingredients.

**Part (B) : Event Registration System**

a. Users can register for an event with their name, email, and contact number.

b. Can view a list of all registered participants.

>Can filter participants with their names.

>Can filter participants with their email addresses.

c. Can delete a registration.

d. Can edit registration and update the participant's name, email, or contact number.

e. Display the total number of registered participants.

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**Early Response of Assignment:**

***Candidates who respond quickly will be given priority in the evaluation process.***

***GOOD LUCK!***