

1. Problem Statement:

Objective: Build a simple web application that allows users to manage a list of tasks. This application should demonstrate basic CRUD (Create, Read, Update, Delete) operations.

2. Requirements:

1. Frontend:

- Use HTML, CSS, and JavaScript to create the user interface.
- The application should have an input field to add new tasks, a list to display existing tasks, and options to edit or delete each task.
- Implement basic validation for the input field (e.g., no empty submissions).
- (Optional) Enhance the UI with a frontend framework/library of your choice (e.g., React, Vue.js).

2. Backend:

- Create a simple REST API to manage tasks with endpoints for creating, fetching, updating, and deleting tasks.
- Use Node.js with any framework you choose (e.g., Express.js).
- Store tasks in any relational Database (e.g: MySQL)

3. Documentation:

- Provide a README file with instructions on how to set up and run your application, including any prerequisites.

3. Evaluation Criteria:

1. **Functionality:** The application works as described and handles basic edge cases.
2. **Code Quality:** Clean, readable, and well-organized code.
3. **Problem-Solving:** Evident thought process in solving user experience and technical challenges.
4. **Innovation:** Any additional features or creative solutions that enhance the application.

4. Submission Guidelines:

Please submit it by sending an email to our HR email address, hr@theexpertscloud.com, from the email address you used when filling out the Google form.

- Provide your code in a GitHub repository with proper version control practices.
- Include a video walkthrough of the application, demonstrating its functionality and any additional features you've implemented.
- Your submission should be done within 5 days from the day of receiving this assessment.

5. Bonus Challenges (Optional):

1. **Authentication:** Implement a simple authentication mechanism to protect the task management system.
4. **Deployment:** Deploy your application on a cloud platform (e.g., Heroku, Netlify, Vercel, AWS or Azure).