RAiD Software Engineering Challenge

Introduction

As part of the technical interview, you will be required to work on the RAiD Software Engineering Challenge. It is broken down into three modular sections, namely, Frontend, Backend and Integration. They do not have to be worked on sequentially.

Your work will subsequently have to be committed to your GitHub repository where you would have to share access to the panel of interviewers. During the interview, you will need to show the modules that you have worked on, explain the lines of codes that you have written and also any thought process when developing the application.

The challenge is designed to be of a, relative, medium to hard difficulty. Please do not plagiarise as your submission will be compared to the other candidates and any form of plagiarism will not be tolerated.

If time permits, you are encouraged to expand beyond the scope of the modules and explore your abilities.

Modules

1) Frontend

   Create a React or Javascript frontend application.

   The application should include a text box and a submit button.

   When a user fills up the text box and hits the submit button, a popup box should be created with the information from the text box.

2) Backend

   Create a NodeJS function that dynamically accepts an input and will insert the content into the database. The database will either be SQL Server, PostgreSQL, MySQL, MariaDB or MongoDB.

A snippet of the function has been included.

```
function create_record(item_name) {
  // create in database


  return 'Record successfully created in the database';
}


console.log(create_record('hi'));
```

3) Integration

   The final module would require you to integrate both your frontend and backend.

   After a user fills up the text box in your frontend application and hits the submit button, your frontend application should call your backend application via a HTTP API call. Your backend application should subsequently insert this input into the database.