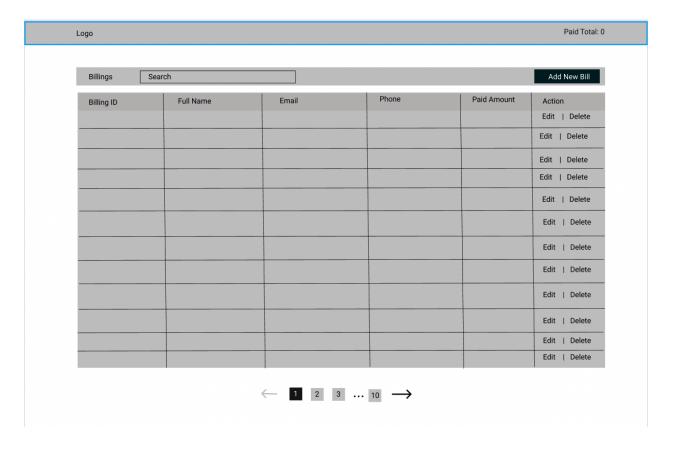# Instructor Recruitment Task (MERN)

Power-Hack is a power distribution company. They want you to build some features .
.

Read the requirements carefully before doing the task.

1. Make a layout component, keep a header and a body. You have to reuse this layout component on every page.

2. Make a billing page for your task . You can get an idea from the attached picture below-

3. Keep a button (Add New Bill Button) which will open a modal. The modal will contain a submission form. The form will have some inputs such as 'Full Name' , 'Email', 'Phone ' ,'Paid Amount'
4. Make a table which will have backend pagination with 10 data per page.
5. When the user will submit the data, the table has to be updated immediately with form data (Full Name, Email , Phone, paid Amount) and show "Generating Id" text (loading spinner or text) in the billing Id column when the API response is still pending.

6. If the API gives a success response,submitted form data will persist otherwise it should be removed from the table..
7. If the API gives a success response you will have to set the generated billing Id instead of Loading Spinner or "Generating Id" Text in the billing Id column .
8. If the API fails with an error you need to roll back the data (remove the newly generated row) and show an alert with a proper backend error message from the APII.
9. In the pagination you need to maintain the pagination page number in the right way, don't call API to load the table data for this kind of submit. Suppose there are 10 items in total and you have only one page in total when you submit new data before API response it will have a new page for displaying all 11 items. Remember per page should have only 10 items. Items will be in Descending order.
10. Show total 'Paid Amount' in the header, While submitting the form, add data to your state and increase the value of total Paid amount'. If the API fails then decrement the amount.
11. You have to update and delete data, For update data reuse the same submission form component.
12. For backend creation of these APIs - (You can not use firebase authentication. Please use custom authentication with JWT. Do not change the API names mentioned below)
    a. api/registration
    b. api/login
    c. api/billing-list
    d. api/add-billing
    e. api/update-billing/:id
    f. api/delete-billing/:id

13. Make form validation, such as email format, phone number should be 11 digit, Not allow blank value, Give proper error message
14. You must use JWT for authentication and authorization.
15. Search fullName, email, phone number