Project Name

Development Technical Test

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Shyftlabs.io

Objective

- You will create a Single Page App for Student Result Management System
- You can use any backend & frontend technology.
- You can use any type of DB
- You can use any routing scheme and URI structure.

Deliverables

Upon the receipt of the project, you have 72 hours to complete and deliver the following

- A github repository (to be shared via email) including instructions on how to build your code and see the running app. Please note if we cannot build your code at our end you won't be shortlisted for the next round of interviews.

Should your coding meet the requirements of the role, we will then set up the following

- A presentation of the working app + a small change to the app (to be delivered while sharing screen on a Google Meet)

Mandatory requirements (MUST FINISH 😎)

Home page

- Application must have a homepage that holds links to other pages as described below.
- The links must be on the left hand side of the page in a navigation bar
  Links to other pages are as follows:
    - o Home
    - o Students
    - o Courses *(required only if you work on the optional requirements)*
    - o Results *(required only if you work on the optional requirements)*

Students page

- In this page the user sees a form with the following controls:
    - o First name
    - o Family name
    - o Date of birth
    - o Submit button
- Upon submission, all controls must be filled
- Date of birth must be a valid date and the student must be at least 10 years old.
- Once all of the above are met, the new student is added to the systems, the app shows a notification for the new addition and clears all the controls for the user to add more students.

- Users can also see a tabular list of all the students on this page which is updated after a student is added.

Optional requirements (INFINITY AND BEYOND 🚀)

Courses page

- In this page the user sees a form with the following controls
    - Course name
    - Submit button
- Upon submission, all controls must be filled
- Once all the details are entered, the new course is added to the systems, the app shows a notification for the new addition and clears all the controls for the user to add more students.
- Users can also see a list of all the courses on this page which is updated after a course is added.

Add New Result page and View

- In this page the user sees a form with the following controls:
    - Course name (must be a selectable dropdown box that has all the courses names)
    - Student Name (must be a selectable dropdown box that has all the students names)
    - Score (a dropdown box that has the values A, B, C, D, E, F)
    - Submit button
- User must select one student, one course and one score
- Once all the details are selected, the new result is added to the systems, the app shows a notification for the new addition and clears all the controls for the user to add more students.
- In the same page the user sees a list of all scores in a tabular form similar to the following

Course	Student	Score
Web Application Scripting	John Smith	A
Database Management	John Doe	B
Web Application Scripting	John Dow	C
Database Management	John Smith	F