MKCL's Project Trainee Recruitment 2022

Stage II

Important Instructions:

- You have been assigned a below mentioned assignment topic to develop a small full stack Application using any Front End, Back End and Database technology.
- A total duration allocated to complete this assignment will be Six Days.
- You have to create both Front End as well as Backend.
- Your application should interact with the database.
- You can use any database as per your choice.
- You can create the backend in any programming Language e.g. GoLang, PHP, Python, Node.js,.NET, etc. Also, you can create the Frontend using any language or framework.
- After Six days, a candidate will have to appear for an Online Interview through Google meet where s/he can demonstrate and explain the application developed by her/him.
- Video of the candidate must be ON while explaining the application.
- For the online interview, a candidate will have to show the actual codes s/he had written for the assignment through screen sharing.
- A webcam and mic on the computer /laptop must be in a working condition before starting the online interview.
- The approximate duration of Online Interview will be 10-15 Minutes.

Important Dates:

- Developing Full stack application on topics given for Stage II: **From Thursday, June 30 to Tuesday, July 05, 2022**
- Online Interview based on assignments given for a Full stack application - Stage II: **Wednesday, July 06 to Friday, July 8, 2022**
- Stage II Result: **Tuesday, July 12, 2022, after 5 pm**

Assignment Topic: Create a Web application for Student Registration

Screen 1: Login: First screen of application
Prerequisite:

- Please create *user* collection/Table in database with username, password, userType (i.e. admin, student) fields in it.
- Add admin user details in it so that we can login using that details

User will be able to login using username and password on a successful match you should take the user to "**Student List screen**" (for admin user) or "**Student Dashboard screen** "(for Student user) according to userType attributes

Screen 2: Student List Screen

- Provide link to register new student, after click on this link it redirects to **"Student Registration screen"** in new entry mode
- Display already registered students (fetch it from database) list with following columns
    - Serial Number
    - Student Full Name (Concatenation of First Name +Middle Name+ Last Name)
    - Student Registered Date with time (format dd/MM/yyyy hh:mm:ss)
    - Edit link, after click on this link it redirects to "**Student Registration screen**" in edit mode
    - Delete link, after click on this link you need delete mentioned student record from database, Give Confirmation [Confirmation box] Before deleting employee
- Also provide search, sort facility in student List

Screen 3: Student Registration Screen

- This page will display the Student registration form to submit information, The required information to collect:
    - First Name
    - Middle Name
    - Last Name
    - Date of Birth
    - Gender [Radio Button]
    - Mobile Number
    - Email ID
    - City
    - PIN (length should be 6 charters)
    - UserName
    - Password and Confirm Password (Password length minimum 8 characters)

- Your application shall store the data in a database after proper validation like

- You should not allow duplicate values for Mobile Number, Email ID, and UserName
- Mobile Number will contain only Numeric values and 10 digits only
- Email ID – Only Valid email ID will be entered
- Please add any other proper validations to capture data correctly

- Also you have to store the date-time on which the registration was done.
- After Successful Saving Redirect User to "**Student List Screen**"

Note: Add student login details (user name and password) in *user* collection/table

Screen 4: Student Dashboard Screen
- Display Logged in student details capture on "**Student Registration screen**"

The task is to develop a full-stack web application that persists the necessary information in the database of your choice. The frontend and backend could be developed using any programming language.