

# Test Assessment Task

## Objective

To test the ability of candidates to achieve most niche implementation of:

- Login Session Management using Express-JS and Express Sessions
- Web Front End development using:
  - Reactive framework
  - CSS
  - JS
- MySQL Data structure and complex queries using relationships.

## Overview of Task

Create an application with reactive frontend that primarily displays a login form if the user is not logged in. Once the user is logged in, display user profile data and provide options and necessary forms to update user profile information.

### Technology usage and rules:

- Express JS with express session
- React JS, CSS and Plain JS
- When using react, no 3<sup>rd</sup> party plugins allowed.
- Api calls from react can be made using only either of this:
  - JS Fetch API
  - Xhttp object
  - AXIOS

## Backend Task Details

### Express-JS:

- Build API Routes.
- Build Authentication middleware.
- Implement Session management using Express-session.
- Implement MySQL Data Connection and CRUD calls.

### MySQL:

- Create the necessary tables.
- Design relationships.
- Create necessary views and joins.



## Frontend Task Details

- Create Login Form.
- Create a User Profile View displaying:
  - User's First and Last name, Phone Number and Email address.
  - User's Password Change Option.
  - Option to update "First name, Last Name, Phone Number and Email".
- Create table View to display text notes created by user. (Optional)