

Web Lead Assignment

Congratulations on being selected for interview. As part of the hiring process candidates is required to complete one of the tests. Written and verbal communication are essential component of this position. Some people communicate better in writing, while other communicate better verbally. We are giving you opportunity to do both.

Below you will find a scenario of a specific problem. You need to prepare a presentation of the solution to the problem. The solution should include technology stack, hosting environment and design patterns.

The Customer Scenario

You will meet with the CIO and Digital Architect of Zurich APAC, one of the largest insurer in APAC region. Recently they have made efforts to digitize their technology stack and provide more solutions/open integrations to partners in the region.

Zurich would like to build a customer portal which allows customers to create an account. Purchase/Renew insurance, check their insurance portfolio, submit a claim.

The front-end of the portal will be built with ReactJS. It requires customer to login to the portal with Google OAuth2. The portal will contain Header, Footer and body. The header and footer are a reusable component that can be used by other front-end applications.

Functions

1. Login – Login mechanism to authenticate the user. After successful login, user is redirected to home page. Unauthorized user will be shown an error page if trying to go to the URL directly.
2. In the home screen, there are 3 major components. Header, Footer and body.
3. In the body section, you are required to make an API call to <https://regres.in/api/users>.
4. Filter the API response only show the response with FirstName starting with “G” or LastName starting with “W”. The response is paginated from the API, the react function needs to traverse all pages to get the required response.

With this in mind, Zurich is concerned about:

- React hosting solutions
- React security, how to secure home page from unauthorized access
- Proper used of React Redux reducer and actions
- Reusable react components
- How to make secure API call from react which require authentication

Objective

Design a hosting solution for react on AWS. Design the components and state. Defined and explained how to secure home page in React. The solution needs to be specifically addressed the concerned above. Please prepare the answer and design in PDF and present during interview session.

Evaluation

We will evaluate on your design, writing and verbal communication skills.

Evaluation Criteria

1. Is it complete, clear, organized and original?
2. Is it technically viable and feasible?
3. Is the code secure, testable and reusable?
4. Does it meet and answer the assessment questions?