

COMPANY INFORMATION MANAGEMENT FORM

Problem Context

Internal information management system is pretty essential for each company and one of the most fundamental parts of the system is the company profile information management, including the basic profile of the company as well as the office information under the company.

This code test is to create a web application to achieve the fundamental functions described above in form format.

Description

Develop a **React Web App** for managing the company and corresponding offices information creation and display. Specifically, the application should contain two pages, shown as below:

Create Company

Name:

Address:

Revenue:

Phone No:

Create

Create Office

Name:

Location:

Office Start Date:

Company

Create

Companies

Google

Address:
1600 Amphitheatre Parkway Mountain View,
CA 94043 United States

Revenue:
9999999

Phone No:
(190) 123456789

Amazon

Address:
410 Terry Ave N. Seattle, WA 98109.

Revenue:
9999999

Phone No:
(206) 266-1000

Alibaba

Address:
969 West Wen Yi Road Yu Hang District
Hangzhou 311121

Revenue:
9999999

Phone No:
(86) 571-8502-2088

Figure 1. Overview Page

Alibaba

Address:
969 West Wen Yi Road Yu Hang District Hangzhou 311121

Revenue:
999999999

Phone No:
(86) 571-8502-2088

Back to Overview

Offices

Hangzhou Binjiang Campus ✕

Location:
Lat - 103.12
Log - 20.44

Office Start Date:
6/20/1997

Hong Kong Office ✕

Location:
Lat - 103.12
Log - 20.44

Office Start Date:
6/20/2003

Taipei City Office: ✕

Location:
Lat - 103.12
Log - 20.44

Office Start Date:
6/20/2007

U.S. Office: ✕

Location:
Lat - 103.12
Log - 20.44

Office Start Date:
6/20/2015

U.K. Office: ✕

Location:
Lat - 103.12
Log - 20.44

Office Start Date:
6/20/2012

Figure 2. Offices Page

The **expected functionality** are shown as below:

Overview page

- The section titled “create company” should be able to create new company after filling in necessary information to the form and click the “Create” button. Moreover, necessary form validations are required, specifically,
 1. Form cannot be submitted when any of input box is empty, and necessary required warning message (label or tooltip) should be shown for the invalid inputs.
 2. Revenue input should be positive floor number.
 3. Two fields of phone number should be both positive integer. Bonus if you can implement country code selection for the “code” input.

- The section titled “create office” should be able to create new office under selected company after filling in necessary information to the form and click the “Create” button. Moreover, necessary form validations are required, specifically,
 1. Form cannot be submitted when any of input box is empty or unselected, and necessary required warning message (label or tooltip) should be shown for the invalid inputs.
 2. Two input fields under location should be both positive float number.
 3. Input “Office Start Date” should be able to **pop up calendar** for user to select the date instead of typing in the date string.
- When successfully creating a new company, proper notification message should be shown and new company information should appear in the section titled “Companies” as a new widget. Moreover, the form should be reset for further use.
- For each of the company widget under the section titled “Companies”,
 1. It need to display the company profile information in the format shown in the overview page.
 2. Each company widget is also clickable, which will redirect user to corresponding offices page.
 3. When clicking the cross button on the top right corner, a pop up for confirmation need to be shown out and after confirming, the widget will be removed.
- If there is no company created in the overview page yet, message “there is no companies created yet” should be displayed in the “Companies” section.

Offices Page

- As the design above shown, company information as well as the information for each office need to be display accordingly. When a new office created in the overview page for one company, it needs to be automatically shown for the offices page of this company.
- For each office widget in section titled “offices”, when clicking the cross button on the top right corner, a pop up for confirmation need to be shown out and after confirming, the widget will be removed.
- If there is no office in the offices page yet, message “there is no office created yet” should be displayed in the “offices” section.
- When clicking the “Back to Overview” page, user will be redirect to the overview page.

Implementation Requirements

- Please use **React.js** stack to implement the application, **Redux** to manage the data states happened in the application workflow and **Webpack** to manage the

application building process. You can use <https://github.com/davezuko/react-redux-starter-kit> (React Redux Starter kit) or create-react-app to setup the skeleton and work on it.

- Build your component as modular as possible (extract generic component to avoid code duplication).
- Please setup simple **NodeJS server application** for hosting the frontend app. Or, if you want, you can save the created data in NodeJS server side for better data persistence.
- Please document clearly about your **system design solution** (feel free to use professional diagrams if you think necessary), **nontrivial assumptions** as well as the **compiling and invocation guide** with program environment details.
- ****NOTE****:
 - Please **DO NOT** copy the solution online.
 - Please **structure your project code clean and clearly as this code test is to demonstrate your frontend engineering skills.**

Submission

- You are expected to submit your **source code project** with the **README document** containing the required content stated above.
- Create a repository on Github or Bitbucket and commit your work there. Please submit the **public link of the repository** containing the required source to us after you finished. We are willing to have a look on how you build the application step by step.