DASHMOTE

Guiding you through a data-driven world

Full Stack Developer Case
Client Application

Introduction

The case is divided into 2 parts. The first part is asking you for some general information about your software development practices and the second part is about putting your skills into practice by developing a small application.

Context
Dashmote is giving informational insights into the food & beverage market. Furthermore we package those insights into Client focused Apps which are highly user focused. Therefore our applications need to be talking to many different services and be reachable from many devices.

Our current frontend stack for our applications is Docker, Node, VueJS, Firebase. Furthermore we embed data through REST API's and also make use of PowerBI for visualisations. Therefore you need to be able to easily work with Javascript and dedicate some time to shape UI and UX parts.

General questions

Question 1

As a software engineer, you should provide efficient and clear code practices. Can you run us through your specific code practices and how you document your code?

Question 2

What is your approach to building an application that is talking to many different services? How would you set up an architecture that can support various integrations from different services (3rd party API, DBs, embedding of Sub Applications). Can you give us some best practices you would follow and give us an example of your ideas.

Question 3

What is your preferable Git branching model and why?

Question 4

What are your preferred practices about deploying code to production ? Can you explain to us your methodology and give examples on how you would implement a production pipeline ?

CASE

Prerequisites

Mini JSON below:

> [{"name": "Project A", "users": 4, "dashboards": 3, category: "D"},
> {"name": "Project B", "users": 2, "dashboards": 4, category: "C"},
> {"name": "Project C", "users": 1, "dashboards": 2, category: "F"},
> {"name": "Project D", "users": 3, "dashboards": 2, category: "D"}]

Context

Your "user" is a client that consumes the data in a visual interface. He wants to be able to view the 4 items in a list and be able to delete the items from the list. You will get the access to the desired visualisations below.

DESIGN FILES: Link

User Stories

1. As a user I want to be able to view my 3 projects with details in an App
2. As a user I want to be able to delete of the 3 projects
3. As a user I want to be able to view my projects on a mobile device
4. As a user I want to search my projects by name
5. As a user I want to see the category level visual for each project
6. As a user I want to be able to confirm when deleting a project

Deliverable

Build a visual interface, preferably in Vue. Either host the project on a server yourself or deliver the codebase in a runnable state (Docker or clear instructions). Furthermore deliver us your code in an accessible github repo.

The goal is for us to be able run the code you provide. It's ok if you cannot accomplish any of these tasks. Just tell us which ones and why you could not do it. It's important that everything is commented and clear so we can understand your line of thought.

You can upload the app to a public repo and give us access or send us a link to a zip file.

Hint: We use mainly VueJS and make use of the antd libraries

Links:

https://vuejs.org/
https://antdv.com/components/overview