

Frontend Task

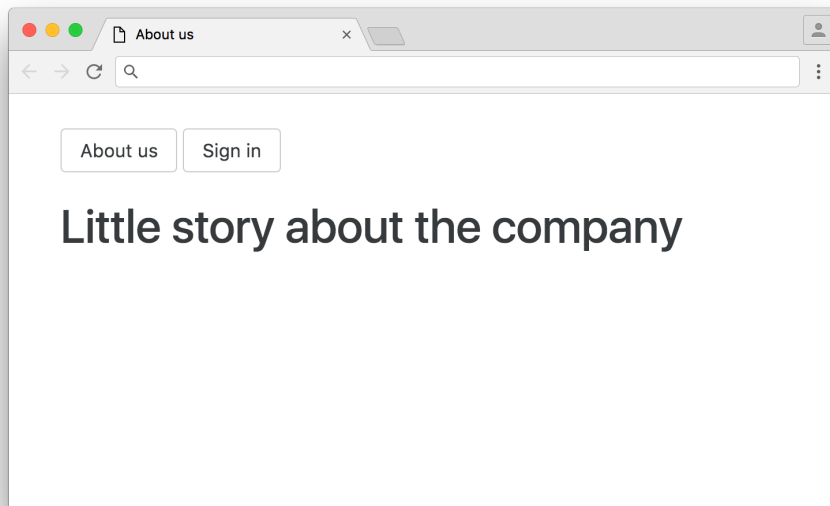
This document contains a task for frontend developer position. Please think about all your decisions while solving it. Provide an essential solution without extra unused files which may come with some kind of default code templates.

Candidate is asked to write a small app which has a mock backend. Application consists of initial screen and protected area. It must provide logic for authentication.

Solution must be based on ReactJS and UI framework chosen by the candidate.

User Interface

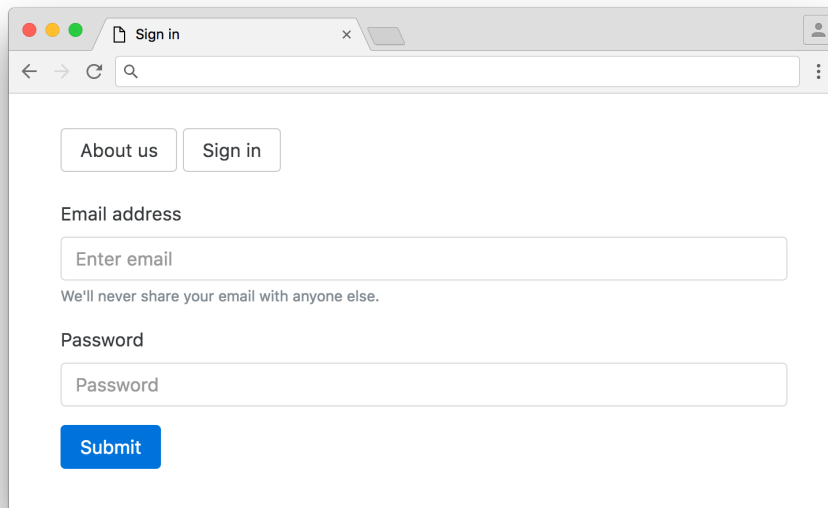
1. Initial screen.



This is the first interface seen by the user. Users are able to see information about the company. Information is requested from JSON API server. No authentication is needed for this call.

Use **/info** backend entry to get the data.

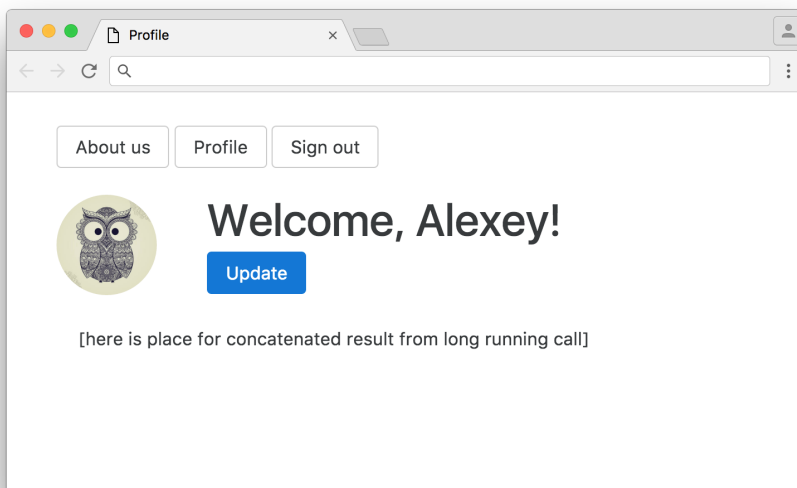
2. Login screen.



A screenshot of a web browser window titled "Sign in". The browser's address bar is empty. The page has a clean, minimalist design with a white background. At the top, there are two buttons: "About us" and "Sign in". Below these, the text "Email address" is followed by a text input field with the placeholder "Enter email". Underneath the input field, a small line of text reads "We'll never share your email with anyone else." Below this, the text "Password" is followed by a password input field with the placeholder "Password". At the bottom left, there is a blue button labeled "Submit".

On this page the user is able to sign in with his username and password. Use **/login** backend entry to perform authentication.

3. User screen.

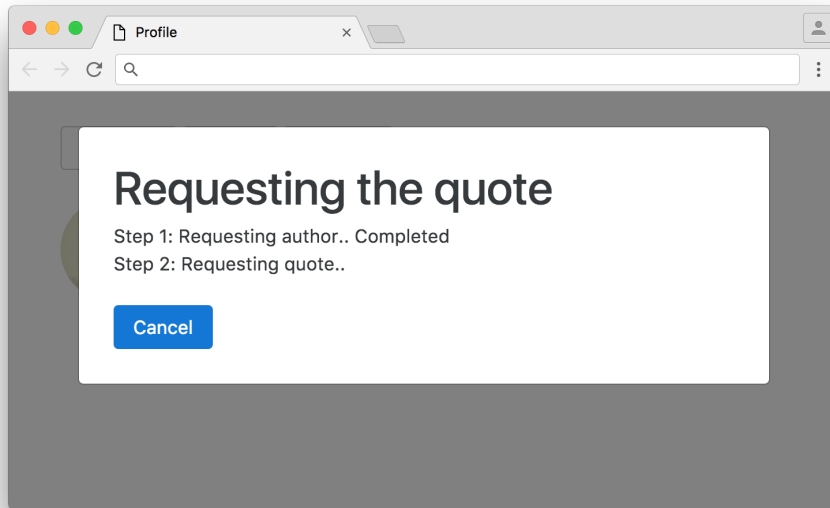


A screenshot of a web browser window titled "Profile". The browser's address bar is empty. The page has a clean, minimalist design with a white background. At the top, there are three buttons: "About us", "Profile", and "Sign out". Below these, there is a circular profile picture of an owl. To the right of the profile picture, the text "Welcome, Alexey!" is displayed in a large, bold font. Below the text, there is a blue button labeled "Update". At the bottom, there is a line of text that reads "[here is place for concatenated result from long running call]".

On this page we can see user specific data. Use **/profile** backend entry to request data when a user enters the page. By clicking the Update button the user starts a request made of 2 sequential API calls. Use **/author** and **/quote** backend API calls to retrieve the data.

4. Long running request.

We would like to emulate a chain of async requests. We have 2 long running operations in our



backend (explained above). Concatenated (author name + quote) results should be displayed on profile. Before both requests are completed, the user should be able to stop the process by pressing Cancel.

JSON API

Candidate's application should use the API interfaces mentioned in the tasks. All responses have a standard simple message format:

```
{  
  "success": true,  
  "data": {}  
}
```

or

```
{  
  "success": false,  
  "data": {  
    "message": "Access denied."  
  }  
}
```

1. GET /info

Returns public information for the main page.

Response:

```
{
  "success": true,
  "data": {
    "info": "Some information about the <b>company</b>."
  }
}
```

2. POST /login

Authenticates user using provided email/password pair. Request information is encoded in a JSON object in the body.

Request:

```
{
  "email": "aleksei@example.com",
  "password": "lkJlkn8hj"
}
```

Response:

```
{
  "success": true,
  "data": {
    "token": "fb566635a66295da0c8ad3f467c32dcf"
  }
}
```

3. GET /profile?token=[token]

Returns simple user information.

Response:

```
{
  "success": true,
  "data": {
    "fullname": "Aleksei K",
    "email": "aleksei@example.com"
  }
}
```

4. GET /author?token=[token]

After 5 seconds delay returns random author information.

Response:

```
{
  "success": true,
  "data": {
    "authorId": 1,
    "name": "Charlie Chaplin"
  }
}
```

5. GET /quote?token=[token]&authorId=[authorId]

After 5 seconds delay, return a random quote from the author. Concatenated with the author name the quote should be displayed on the profile page.

Response:

```
{
  "success": true,
  "data": {
    "quoteId": 1,
    "authorId": 1,
    "quote": "A day without laughter is a day wasted."
  }
}
```

6. DELETE /logout?token=[token]

Sign out the user from the service.

Response:

```
{
  "success": true,
  "data": {}
}
```

Versioning

Candidate should prepare his codes in the GIT repository. Several releases should be separated (even if they are not very real) and simple branch release management should be applied.

Code Testing

Candidate is kindly asked to describe his testing approach. If possible, show it in the code.

Questions

If you have any questions write them to an email provided at the bottom left corner.

Thank you!

Appendix A: Authors Sample Data

```
[
  {
    "authorId": 1,
    "name": "Walt Disney"
  },
  {
    "authorId": 2,
    "name": "Mark Twain"
  },
  {
    "authorId": 3,
    "name": "Albert Einstein"
  }
]
```

Appendix B: Quotes Sample Data

```
[
  {
    "quoteId": 1,
    "authorId": 1,
    "quote": "The more you like yourself, the less you are like anyone else, which makes you unique."
  },
  {
    "quoteId": 2,
    "authorId": 1,
    "quote": "Disneyland is a work of love. We didn't go into Disneyland just with the idea of making money."
  },
  {
    "quoteId": 3,
    "authorId": 1,
    "quote": "I always like to look on the optimistic side of life, but I am realistic enough to know that life is a complex matter."
  },
  {
    "quoteId": 4,
    "authorId": 2,
    "quote": "The secret of getting ahead is getting started."
  },
  {
    "quoteId": 5,
    "authorId": 2,
    "quote": "Part of the secret of a success in life is to eat what you like and let the food fight it out inside."
  },
  {
    "quoteId": 6,
    "authorId": 2,
    "quote": "You can't depend on your eyes when your imagination is out of focus."
  },
  {
    "quoteId": 7,
    "authorId": 3,
    "quote": "Look deep into nature, and then you will understand everything better."
  },
  {
    "quoteId": 8,
    "authorId": 3,
    "quote": "Learn from yesterday, live for today, hope for tomorrow. The important thing is not to stop questioning."
  },
  {
    "quoteId": 9,
    "authorId": 3,
    "quote": "The only source of knowledge is experience."
  }
]
```