**Assignment Details**

Both the assignments (Beginner & Advanced) are frontend React applications with no backend development required.

The idea of both the assignments is to build a single page that displays the profile of 10 users (the data is obtained from an API endpoint). Each user's profile contains a avatar picture, name, email, phone, address, website and company name.

**API endpoint for users data**

All 10 users profile data is to be downloaded from the following API endpoint:

Method: GET

URL: https://jsonplaceholder.typicode.com/users

The schema of the data received in the response is:

// Array of 10 users

[

{

id, // The user's id

username,

name,

email,

phone,

website,

address: {

street, // Address line 1

suite, // Address line 2

city,

zipcode

},

company: {

name, // The name of company where the user works

}

}

]

**API endpoint for users' avatar pictures**

You will be using [Avatars by DiceBear](https://avatars.dicebear.com/). They provide a free HTTP API to create unique avatar images based on any string we send as query parameter. Each string generates a unique image. You will use the username to generate a unique avatar for each user.

The URL for the GET endpoint is:

https://avatars.dicebear.com/v2/avataaars/{{username}}.svg?options[mood][]=happy

The {{username}} in the URL is the placeholder for the user's username. It should be dynamically replaced by the username received from the users API endpoint. For example, if the username for one of the users is psamd then the URL for the avatar for this user will be: https://avatars.dicebear.com/v2/avataaars/psamd.svg?options[mood][]=happy

**Loading Indicator**

Upon opening the app a loading indicator is displayed until the data is fetched from the API and is ready to be displayed. The source code for the loading indicator can be obtained from: <http://tobiasahlin.com/spinkit/>.

**Assignment 1 - Beginner**

**Deadline for submission:** 1 days

DEMO - <https://react-basic-assignment.psamd.now.sh/>

This assignment is designed for applicants who have learned ReactJS and have minimal hands-on experience in developing react application.

**What are we looking for?**

With this assignment we would evaluate the following:

* Ability to create new react projects using [Create React App](https://facebook.github.io/create-react-app/)
* Understanding of JSX
* Passing props to components
* Understanding of stateful and stateless Components
* Basic understanding of state management and component lifecycle methods
* Fetching data from an API endpoint
* Conditional rendering
* Working with lists

**Instructions**

We want applicants to create an exact replica of the [assignment 1 demo app](https://react-basic-assignment.psamd.now.sh/).

This app is only designed for desktop/laptop and will be tested on Chrome browser.

Bootstrap was used to create the UI design for the demo app. But, you are encouraged to use any other CSS library/framework that they are comfortable with.

**Assignment 1 - Advanced**

**Deadline for submission:** 3 days

DEMO - <https://react-advanced-assignment.psamd.now.sh/>

This assignment is designed for applicants who have a good knowledge and understanding of React.

**What are we looking for?**

Everything mentioned in the Assignment 1 and additionally:

* Ability of the applicant to learn a new React UI library and use its components in their app
* Handling events and working with forms
* [Lifting State Up](https://reactjs.org/docs/lifting-state-up.html)

**Instructions**

We want applicants to create the closest possible replica of the [assignment 2 demo app](https://react-advanced-assignment.psamd.now.sh/).

This app should be a responsive (mobile, tablet and desktop) and will be tested on Chrome browser.

The entire app was designed using the [Ant Design](https://ant.design/) library. You may use the library to design the Icons, Buttons, Cards, Grid, Modal and Form in the demo app.

**General Tips**

* Feel free to use Google, StackOverflow or any other resource
* Examine the demo apps closely to determine all the features
* Open the data API link in your browser and examine the response schema
* For applicants attempting the Assignment 2, please read the documentation of [Ant Design](https://ant.design/docs/react/introduce) library carefully and thoroughly.
* Try to match the UI design of the demos for each assignment as closely as possible.
* Please feel free to get in touch with the Eumentis Cloud's team to clear any doubts related to the aforementioned instructions.