Full-Stack Engineer - Technical Assignment

Many thanks for your continued interest in joining Adthena. To understand if you are a good fit for Adthena and if we are a good fit for you, we would like to work together on a test assignment. Please complete this task as if you are already working as part of our team at Adthena. The assignment is as much about testing our ability to work together as it is your ability to implement features/products. Please take the opportunity to ask any questions during the assignment as you would in a normal working environment.

Technology Requirement

You should complete the test using Javascript - React

Duration

The assignment should be returned to us within 1 week. We believe it should not take you more than 4 to 6 hours working on it. If you need extra time due to other commitment please let us know.

Submission

Submit your code in any format you wish along with your source code. You could also submit your code using GitHub, BitBucket or similar platforms.

Documentation

Please provide clear and detailed instructions on how to install and run your code locally from a clean repository. Please do not assume that test reviewers have knowledge of how to build or run your application.

Contact

Please feel free to contact with any questions
Malvern Kamukondiwa (vern@adthena.com) or Vasanth John (vasanth.john@adthena.com)

Technical Assignment

We have prepared a skeleton project with server and a client in the public repo
https://github.com/Adthena/adthena-test/tree/master/react_developer_test

Please clone this repository on your machine and follow the instructions to make sure the client is running.
Feel free to introduce any dependencies or libraries you may need in order to complete this task.

Task One - Solve a Bug

This task is to solve a bug. There is a bug in the LogSelectionButton React Class Component that is preventing the behaviour described below from working correctly. Fix the bug.

Expected:

1. LogSelectionButton must remain a Class Component.
2. When you click on an animal tile (Whale, Cow or Hippo) e.g. Hippo then click the "Log my click to console" button then a corresponding message e.g. "You clicked:Hippo" is logged to the Javascript console after 5 seconds.
3. When you click all three animal tiles, within 5 seconds, with a click of the "Log myclick to console" button between each animal tile click, a corresponding message is logged to the Javascript console for each animal tile.

Task Two - Create Components

The task is to create components to fetch public API data, combine it, apply filtering and visualise that data.
Include unit tests. Jest is already configured for you in the skeleton project.

Expected:

1. Use data from the following API endpoints:
   1. https://jsonplaceholder.typicode.com/users
   2. https://jsonplaceholder.typicode.com/todos
2. Data fetching should be done with a re-usable data fetching hook.
3. The user interface must accept a username as input.
4. The user interface must handle the case where an error occurs and the case where the requested user is not found.
5. Display the username, email and website of the user.
6. Display a list of Todos for the user.
7. Visualise the Todos in such a way that it is easy to distinguish between the complete and incomplete Todos.
8. Give the user the option of a dark theme for the Todos user interface.

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