

Important: - Please read this document carefully and proceed with the assignment as per your convenience.

About Us

Leadzen is a growth stage Marktech start-up based out of Mumbai. We use Terabytes of data and AI tools to find leads and prospects that our customers are looking for. We are a small team of financial experts and software developers who have dreamed up and built the product. Our product is being used by some of the top banks, insurers and wealth management companies in the country. We have around 50 clients using our product at this time. Our plan is to 10x the clients and ARR in the next 18 months.

Our tech stack is based on Python and React. Our data is split between Elasticsearch, Mongo and Postgres. Deployment is on Azure using Docker. Traefik as our TLS/SSL terminator and Load balancers. Redis is our Message Queue and Caching provider. We use Async processes by default, only falling back to sync processes where we can't avoid it. We use Huggingface Transformers for all our AI processes. Random Forest is used for most simple ML tasks.

Notes: - Read these points to understand more about your role at Leadzen. In case, if you have more questions, feel free to get in touch with your POC (Point of Contact).

- We're looking for an engineer who would be interested in working on next gen Cypress Automation Testing Tool along with React JavaScript and improving UI/UX of our web application.
- This will lead your career path to becoming a Software Development Engineer - Test and Quality Assurance (SDE-T/QA)
- You will have opportunities to work on other projects involving Jenkins CI/CD, Docker, Azure, and many more to come.
- You would be working on building automation tests, improving code coverage, fixing bugs
- As per requirements you're also expected to work on developing new features of our React application
- You will have mentors to guide you when required
- You will be awarded an offer immediately upon completing the project with minimum criteria matches

Pre-requisites: - Html, CSS, JavaScript, React, Git, REST APIs, Cypress.js Automation Testing (Optional, but preferred), Typescript (Is a plus)

Objective: The purpose of this assignment is to evaluate a candidate's ability to work with Node.js and React.js, including their skills in making API requests, handling data, and creating a user-friendly frontend interface.

API Endpoint: <https://jsonplaceholder.typicode.com/users>

Assignment Description: You are tasked with creating a web application that retrieves data from a public API and displays it using a React.js frontend. The application will have the following key components:

1. Backend (Node.js):

- Create a Node.js server using Express.js to serve the frontend and handle API requests.
- Set up routes for fetching data from a public API. You can choose any public API you prefer (e.g., a weather API, cryptocurrency data, news API, etc.).
- Implement error handling for API requests and responses.
- Parse and format the API data as needed before sending it to the frontend.

2. Frontend (React.js):

- Create a React.js application that communicates with the Node.js backend.
- Implement a user interface to display the data retrieved from the API.
- Use React components and state management to update the UI when new data is fetched.
- Include error handling for any issues that may occur during data retrieval.
- Provide a clean and user-friendly design using CSS or a CSS framework of your choice (e.g., Bootstrap, Material-UI).

3. Optional Features (Choose at least one):

- Implement client-side filtering or sorting options for the displayed data.
- Add pagination to display a limited number of items per page.
- Implement a search feature to allow users to search for specific data within the results.
- Include unit tests for the React components or Node.js server (testing library and frameworks like Jest or Mocha/Chai).

Submission Guidelines:

- Create a public GitHub repository to host your project.
- Include a README.md file with instructions on how to run the application and any additional information you deem necessary.
- Ensure that your code is well-documented and follows best practices for Node.js and React.js development.

Evaluation Criteria: Candidates will be evaluated based on the following criteria:

1. Proper API integration and data retrieval.
2. Effective error handling for API requests and responses.
3. Quality of the React.js frontend, including user interface design and responsiveness.
4. Optional feature implementation (if chosen).
5. Code organization, readability, and documentation.
6. Submission and repository organization.
7. Bonus points for unit testing (if implemented).

Feel free to customize this assignment based on your specific needs and the level of expertise you are looking for in your candidates. Be sure to provide clear expectations and evaluation criteria to assess the candidates effectively.

API Endpoint: <https://jsonplaceholder.typicode.com/users>

This can be one of the views, wherein while clicking additional data can be displayed

Hellomet	CONTACT Swapnil Warg	CITY Mumbai	STATE Maharashtra	View Details
Hello Travels	CONTACT Imran Dola	CITY Surat	STATE Gujarat	View Details
Hello Plastic	CONTACT Deepak Kumar	CITY New Delhi	STATE Delhi	View Details

< 1 2 3 4 >

- And display detailed information for that item

Hello Travels	CONTACT Imran Dola	CITY Surat	STATE Gujarat	Hide Details
<div><div>Description Providing service of domestic flight booking @ lowest price guaranteed and also for railway e ticket booking. also offering international flight tickets. giving services to our customers since 1995. now going to start hajj and umrah very soon for our valuable customers it will be also @ very affordable prices.</div><div><div>Contact Person Imran Dola Designation Proprietor Emails helloervices1@gmail.com Phones 9712500500</div><div>Address 15 Kasmani Shopping Centre Unn Surat Gujarat 395003 City Surat State Gujarat Country India</div></div></div>				