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## Objective

The Node.js Challenge assesses your ability to create APIs with JSON responses, databases, and functions for the backend logic, and host an application.

## Prerequisites for the Challenge

Make sure you have the following when you start the test.
1. PC/Mac running Windows, Linux, or macOS
2. A GitHub account (or GitLab, Bitbucket, or any other known repository)
3. NodeJS 10 or greater
4. MySQL installed
5. Git installed

## The Challenge

Time - **2 hours**

Create a Search API and a Drop-Down API to search for 30 stocks listed on the National Stock Exchange (NSE) using the company name or their symbol to view the key market ratios of a business. The APIs must contain token authorization restricted by a Login API.

## Functionality

1. Create a **Search API** to search for 30 NSE stocks (3rd point).

2. Create a **Drop-Down API**. If a stock name is typed in, possible search suggestions must be shown as a drop-down.

3. The SQL/NoSQL database must contain 30 companies and their market ratios. The name of the stock/the name of the company is to be passed as a URL parameter while making API requests. The data to be shown in the JSON are in the [NSE Stocks CSV file >](#)

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4. You can refer to the attached video to create the user interface. This is not mandatory, but having a user interface is always an advantage during the evaluation.

   NSE Stock Search UI >

5. Use the brand guidelines below for building the UI easily.��
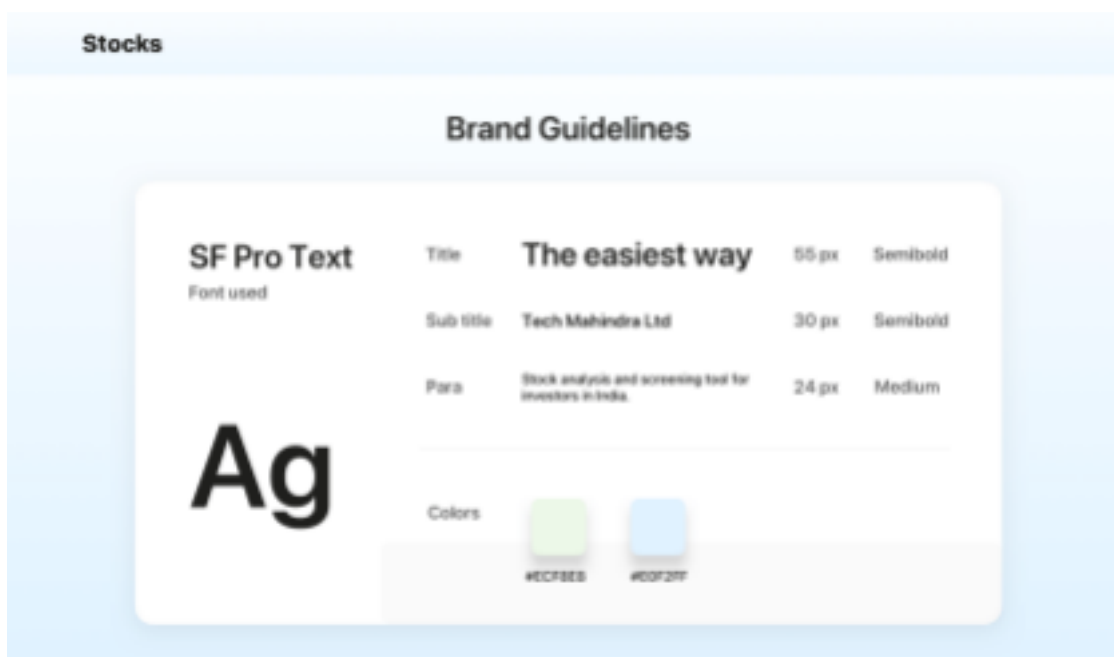


## Some Instructions

- Use **Node.js for the backend**. Mention the framework used as a comment in the code.

- Create APIs with JSON responses. The data must be stored in a **MySQL/PostgreSQL/NoSQL** database and fetched on API calls by a Node.js script.

- **Test the APIs** well to make sure they are working well.

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Riafy/2022-23/NodeJS-Challenge/May/30-05

# Submission

Time - **1.5 hours**

Once done send a video recording of the working demo you have build. Host the code in github repository and share as email. Towards the end of your challenge, a Google Meet call with one of our evaluators will be scheduled prior to screen sharing your results. Make sure to submit the code anyway.

NB: **Hosted submissions will be given primary preference during evaluation** over those who screen share. If you can host the solution on web using free hosting services like heroku that will be given preference.

[Free MySQL Hosting](#)

2. Share your work via [jobs@riafy.me](mailto:jobs@riafy.me) before or precisely at the end of your allowed time i.e., **3.5 hours.**