

# Makers 2022

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## **STOCK ALERT**

### **IDEA DEVELOPMENT :**

We are busy people but anyone would like a side income. Stock market is one of the most famous and also the most used mode of side income. But we, technocrats actually do not have the time to keep a check on the fluctuating prices of stocks. This problem motivated me to develop something that sends us alert messages if the percentage change is greater than what we specified. You will also be provided with specified number of latest news articles about the companies you select so that you know about their updates without wasting time to search them on the web.

## TECH-STACK USED :

Majorly Python along with its libraries like Tkinter, smtplib, requests, twilio and pandas.

2 APIs:

Stock Endpoint: <https://www.alphavantage.co/query>

News Endpoint: <https://newsapi.org/v2/everything>

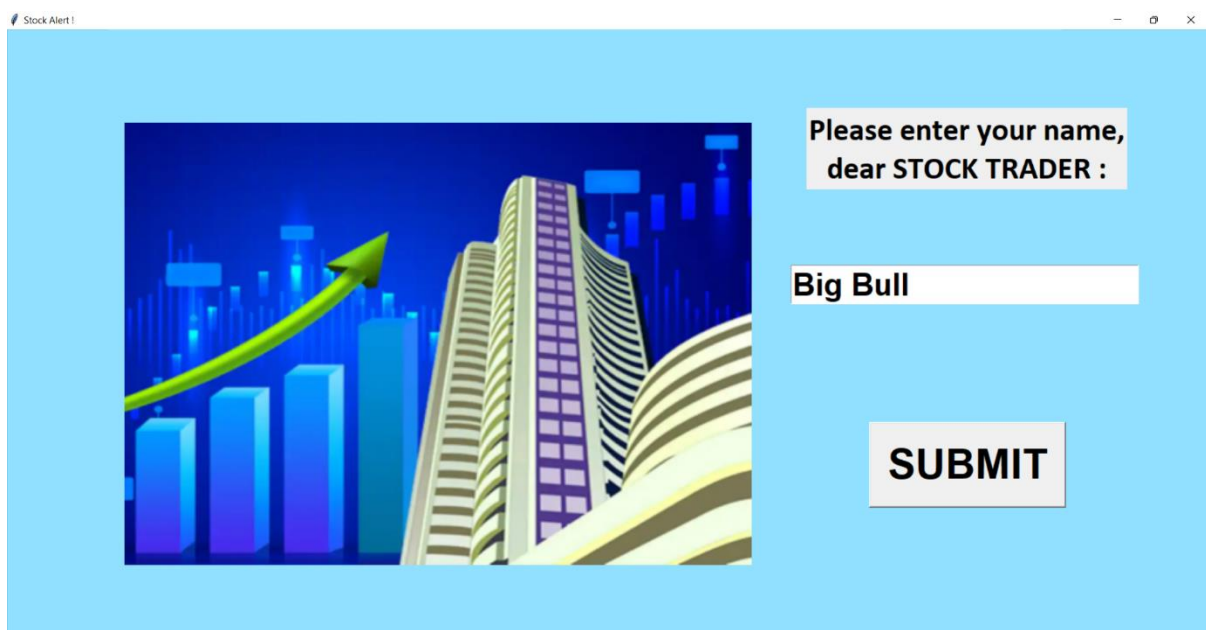
## IDE USED :

Pycharm and Python Anywhere ( Cloud )

## FEATURES :

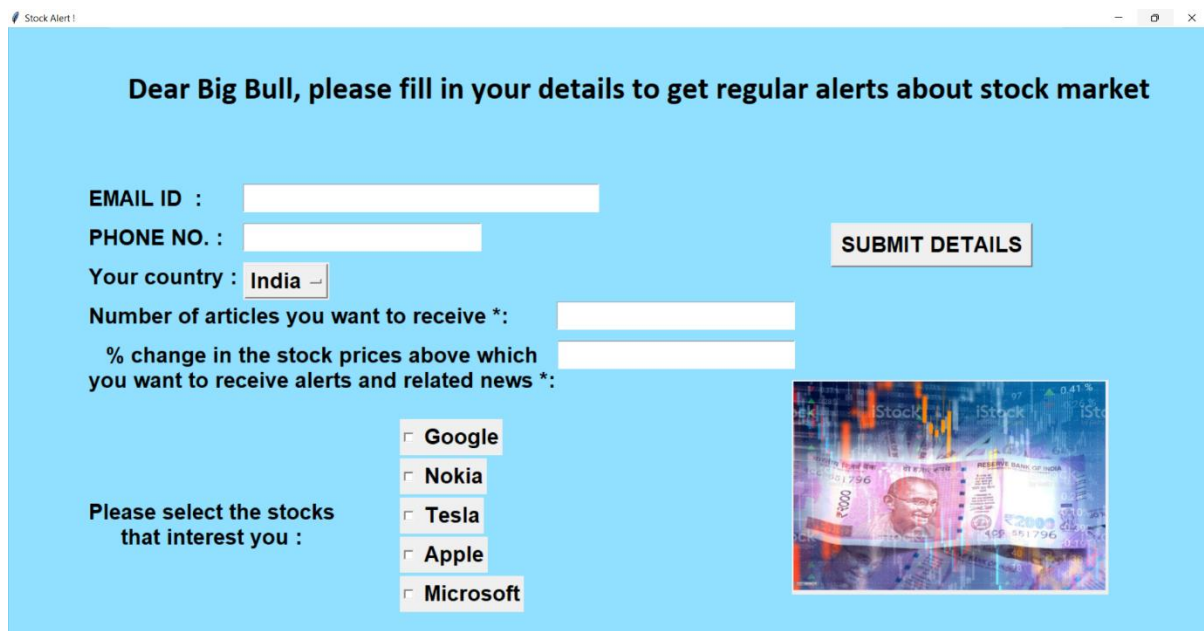
I suggest you not to run this code as to see its working as you need to decrease the security levels and verifications of both your phone number and e-mail id to allow the console to send you the notifications. I have attached the screenshots of the e-mail part of the code for you to verify the code's working.

The below shown is the home page of the app. Here, you need to enter your name for further reference and press submit .



Once you press submit, you will be brought to a page where you need to fill in your details according to which you will get your updates on your entered credentials.

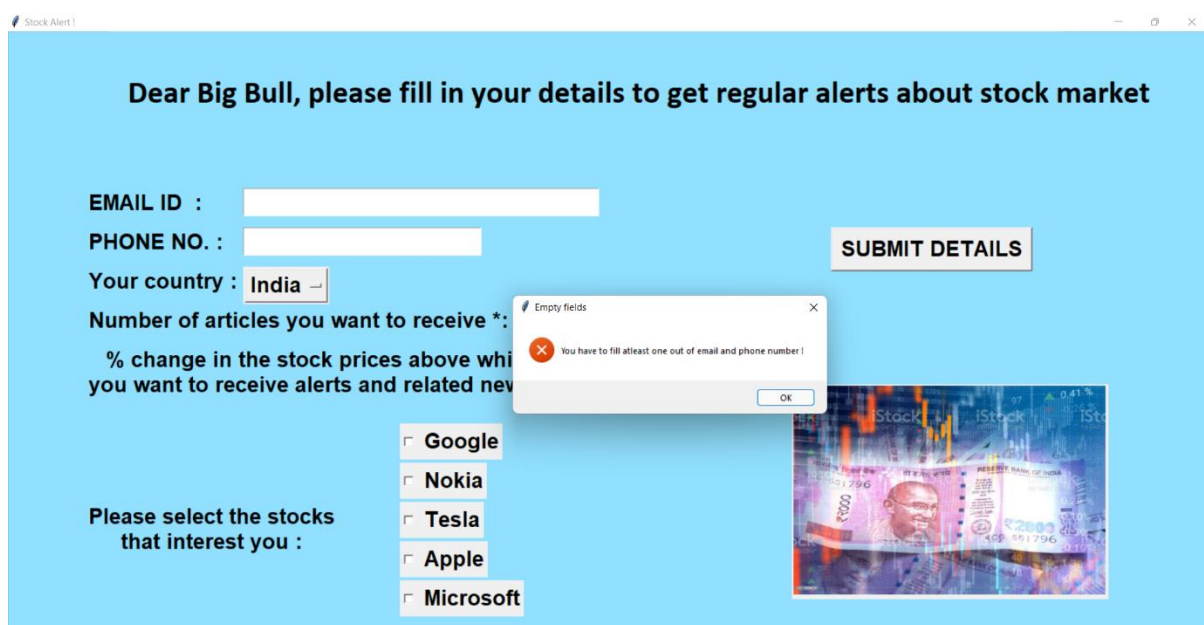
You will have to fill either your phone number or your email id to get the stock alerts. I have shown it using the email notifications as lowering the security levels of phone number is not viable.



The screenshot shows a web browser window titled 'Stock Alert'. The page has a light blue background and contains a registration form. At the top, a heading reads 'Dear Big Bull, please fill in your details to get regular alerts about stock market'. The form includes several input fields: 'EMAIL ID :', 'PHONE NO. :', 'Your country :' (with a dropdown menu showing 'India'), 'Number of articles you want to receive \*:', and '% change in the stock prices above which you want to receive alerts and related news \*:'. To the right of these fields is a 'SUBMIT DETAILS' button. Below the input fields, there is a section titled 'Please select the stocks that interest you :' followed by a list of checkboxes for 'Google', 'Nokia', 'Tesla', 'Apple', and 'Microsoft'. On the right side of the form, there is a small image of a stock market chart and some financial data.

I have created a dummy e-mail id on gmail to show the working. The email id is [dummyemailidentity@gmail.com](mailto:dummyemailidentity@gmail.com). You will have to fill your email id in there.

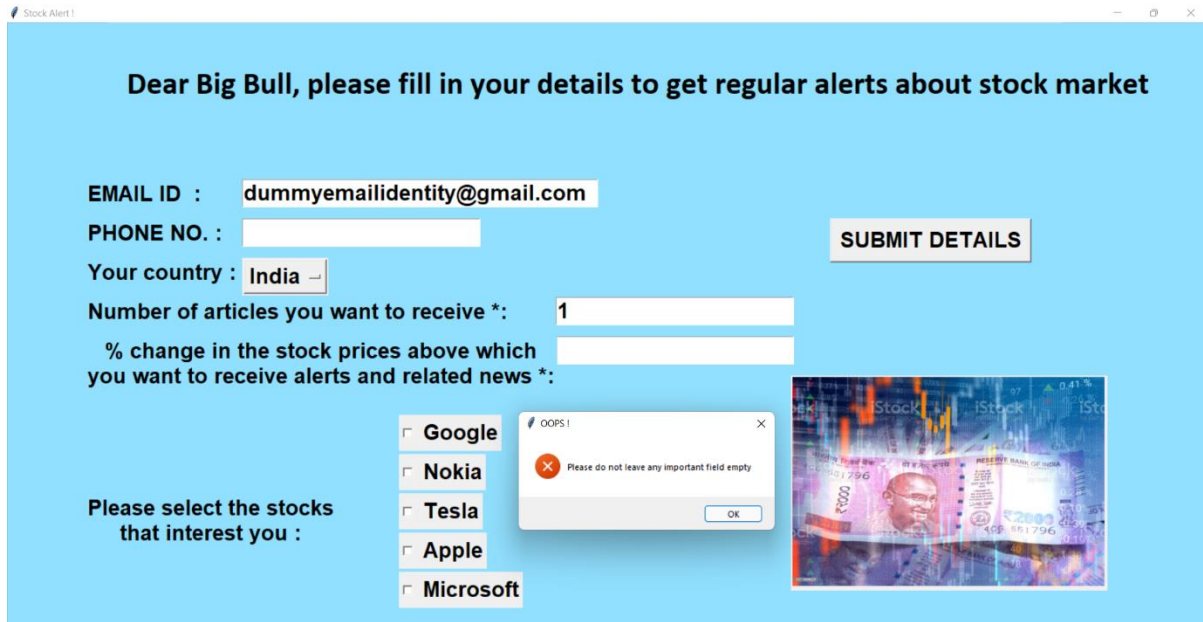
You will have to fill either the e-mail id or the phone number to get the alerts. If both of them are left empty, you will get an error



This screenshot shows the same 'Stock Alert' registration form as the previous one, but with an error message displayed. The error message is a small dialog box with a red 'X' icon and the text 'Empty fields' and 'You have to fill atleast one out of email and phone number !'. The 'SUBMIT DETAILS' button is still visible, and the form fields are the same as in the previous screenshot.

message as follows.

Leaving any of the other fields empty would give you an error

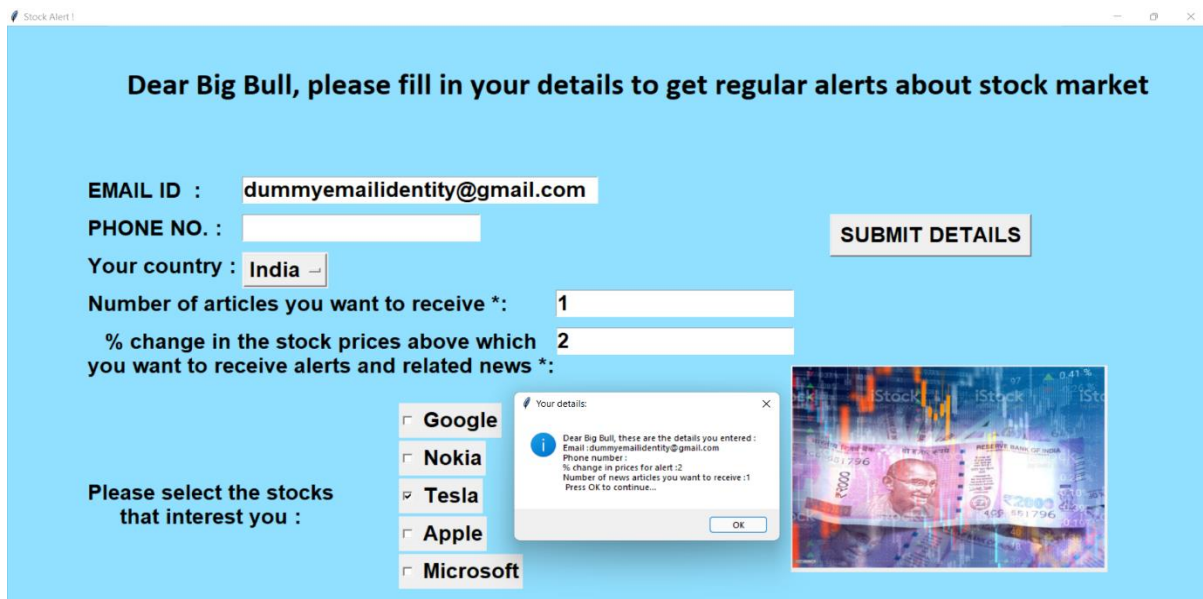


The screenshot shows a web form titled "Dear Big Bull, please fill in your details to get regular alerts about stock market". The form fields are: EMAIL ID (filled with "dummyemailidentity@gmail.com"), PHONE NO. (empty), Your country (dropdown menu showing "India"), Number of articles you want to receive \* (filled with "1"), and % change in the stock prices above which you want to receive alerts and related news \* (empty). A "SUBMIT DETAILS" button is on the right. Below the form, there is a list of stocks to select: Google, Nokia, Tesla, Apple, and Microsoft. A modal error message box is displayed in the center, stating "OOPS! Please do not leave any important field empty" with an "OK" button. To the right of the form, there is a small image of a stock market chart and a 2000 Indian Rupee banknote.

message as follows:

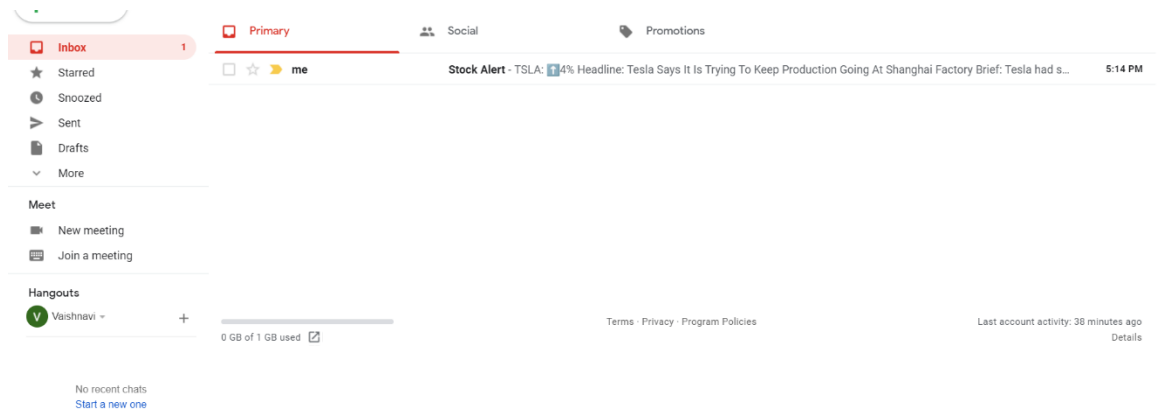
You will get stock alerts about only those stocks which you select from here. Once you re-check all your details, click on submit details.

You will be allowed to review your entered information through a message box. Press OK if everything is fine.



This screenshot shows the same registration form as above, but with the "PHONE NO." field now filled. The "% change in the stock prices" field is now filled with "2". The "SUBMIT DETAILS" button remains. The stock selection list is the same, but "Tesla" is now checked. A modal confirmation message box is displayed in the center, titled "Your details:", listing the entered information: Email, Phone number, % change in prices for alert, and Number of news articles. It asks the user to "Press OK to continue..." with an "OK" button. The background image of the stock chart and banknote is still present on the right.

You will get updated about the %change in the stock price of the stocks selected and if they are greater than the percentage you entered , you will get your entered number of news articles about that company.



To keep us updated everytime the price changes, I have used the python anywhere cloud that runs the program every 24 hours.

## WHY I WANT TO JOIN SDSLABS :

I want to bring my logical dreams to reality. I want to create something out of the world, something different from the lots and effectively useful for the society. Having understood the legacy of SDSLABS, I thought it would be a perfect place to hone my coding skills and come closer to my destination. If given a chance to be a part of this legacy, I ensure you that I will keep up to its mark.