**FLOW CHART**

Put city=”delhi”

City.txt exits

No Yes

Extract city name from file

Scrape data from [www.freshlive.com](http://www.freshlive.com) and extract price and change of given city

Save information in external .csv file

Save in DB

Database

WhatsApp/SMS alert message

1 Beep for 1000ms

And Decreased price notification

2 Beep for 350ms

And Increased price notification

Is change -ve?

Dddddddddddddddddd False True

Indefinite loop

**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY**

**BHOPAL**



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**CERTIFICATE**

This is to certify that **Mayank Jain (19U02005), Kartikey Singh (19U02006), Shivam Bist (19U02048), Shikhar Verma (19U02070)** students of B.Tech 3rd year (Computer Science & Engineering) have completed their project “**GOLD PRICE ALERT**” in partial fulfillment of their minor project in Computer Science & Engineering.

**Dr. Shalini Stalin Dr. Yatendra Sahu**

(Guide) (Project Coordinator)

**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, BHOPAL**



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**DECLARATION**

We, hereby, declare that the following report which is being presented in the Minor Project “GOLD PRICE ALERT” is the partial fulfilment of the requirements of the third year (6th semester) Minor Project in the field of Computer Science and Engineering. It is an authentic documentation of our original work carried out under the able guidance of Dr. Shalini Stalin and the dedicated co-ordination of Dr. Yatendra Sahu. The work has been carried out entirely at Indian Institute of Information Technology, Bhopal. The following project and its report, in part or whole, has not been presented or submitted by us for any purpose in any other institute or organisation.

We, hereby, declare that the facts mentioned above are true to best of our knowledge. In case of any unlikely discrepancy that may possibly occur, we will be the ones to take responsibility.

Mayank Jain (19U02005)

Kartikey Singh (19U02006)

Shivam Bist (19U02048)

Shikhar Verma (19U02070)

**AREA OF WORK**

Our project will mainly focus on Web Scraping and API using a set of tools and technologies that are required for development

of simple user interfact and various notification methods.

While one may argue that the same thing could have been done using

Other existing applications, but that’s where the real catch is.

As it is already mentioned that the tools and architecture we’ll be using mainly focus on simple user interfact and various notification methods.

It’s been a fairly long period since humans started computing and then scraping useful insights from the data, but in past decade the immense growth in data has posed a serious challenge for computing the scraped data that’s where our project stands and with time we also acquired the capacity to process real time massive data sets and ever since it’s just keeps growing bigger and bigger.

In our project we’ll be looking at saving user’s time and efforts so that he/she can invest their valuable time for other productive work and doesn’t have to constantly check for one particular source of income.

**ACKNOWLEDGEMENT**

With due respect, we express our deep sense of gratitude to our respected guide Dr.Shalini Stalin, for her invaluable support and guidance. We are thankful for the encouragement that she has given us in completing this project successfully. Her rigorous evaluation and constructive criticism was of great assistance.

It is imperative for us to mention the fact that this minor project could not have been without the periodic suggestion and advice of our project co-ordinator Dr. Yatendra Sahu.

We are also grateful to our respected Director Dr. Narendra Singh Raghuvanshi for permitting us to utilise all the necessary facilities of the college. Needless to mention is the additional help and support extended by our respected Nodal Officer, Dr. Meenu Chawla, in allowing us to use the department laboratories and other services.

We are also thankful to professor in charge examination Dr. Dheeraj K. Agrawal who continuously supported and encouraged us by his advices and also helped us in our project presentation that has improved our presentation skills.

We are also thankful to Student Welfare in charge Dr. Jaytrilok Choudhary for constantly motivating us to work harder for the completion of the project. We extend our sincere thanks to Dr. Amit Bhagat who co-operated with us nicely for smooth development of this project. We would also like to thanks all the other faculty, staff members and laboratory attendants of our department for their kind co-operation and help. Last but certainly not the least, we would like to express our deep appreciation towards our family members and batch mates for providing the much needed support and encouragement.

**ABSTRACT**

Our application is based on scraping real-time gold price from trustable website and will provide us alerts according to increase or decrease in gold price as it will give us an alert accordingly. It will also give us insight whether it is a good time to invest the money or sell the pile of stocks that we already have. As, in India, many people lose their money due to a lack of knowledge about financial market situations i.e., what factors decide the prices of gold, and also due to lack of time and right mentorship. Time is the most precious asset and not only in India but in the whole wide world, many people have less time to give into this, they don’t have time to see their children’s merit cards so how they will regularly see the prices. So, this will be helpful for these people who have less time or knowledge by sending SMS and/or WhatsApp alert.

In order for our application to run without errors, we must install a few dependencies and libraries which are crucial for the application. The libraries are as follows:

* **BeautifulSoup4**
* **Requests**
* **Winsound**
* **Win10toast**
* **Twilio API**