Calculation of GST Rate Using QR Code System and Consulting To Users About Taxation

Kranti Satras[1], Shweta Shete[2], Sonali Warkhade[3], Prof. Shweta Shanwad[4]
Dept of Computer Engineering
BSIOTR,JSPM college of engineering.,Wagholi, Pune.

Abstract- *GST is one of the most crucial tax reforms in India which has been long pending. It was supposed to be implemented from April 2010, but due to political issues and conflicting interests of various stakeholders it is still pending. It is a comprehensive tax system that will subsume all indirect taxes of states and central governments and unified economy into a seamless national market. This system presents an overview of GST concept using QR code application, using QR code we check the total tax apply to the specific product for further process. The system is more focused on advantages of GST and challenges faced by India in execution.*

Keywords- GST; QR Code Generator; Online Payment; Consulting.

I. INTRODUCTION

The proposed GST is likely to change the whole scenario of current indirect tax system. It is considered as biggest tax reform since 1947. Currently, in India complicated indirect tax system is followed with imbrications of taxes imposed by union and states separately. GST will unify all the indirect taxes under an umbrella and will create a smooth national market. Experts say that GST will help the economy to grow in more efficient manner by improving the tax collection as it will disrupt all the tax barriers between states and integrate country via single tax rate. GST was first introduced by France in 1954 and now it is followed by 140 countries. Most of the countries followed unified GST while some countries like Brazil, Canada follow a dual GST system where tax is imposed by central and state both. In India also dual system of GST is proposed including CGST and SGST.

QR codes seem to appear everywhere these days. We can see them on posters, magazine ads, websites, product packaging and so on. Using the QR codes is one of the most intriguing ways of digitally connecting consumers to the internet via mobile phones since the mobile phones have become a basic necessity thing of everyone. A methodology for creating QR codes by which the user enter text into a web browser and get the QR code generated. Drupal module was used in conjunction with the popular libqrencode C library to develop user interface on the web browser and encode data in a QR Code symbol. The experiment was conducted using single and multiple lines of text in both English and Thai languages. The result shows that all QR encoding outputs were successfully and correctly generated.

Problem Statement:

Taxes are the only means for financing the public goods because they cannot be priced appropriately in the market. They can only be provided by governments, funded by taxes. Now days customer don't have any idea about the GST percentage for each product after bill generate user show the tax for that particular product, so this the problem of existing system. Once bill generate then user has no option for return. If customer return that product any condition then customer and counter is west the time for that process.

So our system is show the before purchasing the any product we will show the tax for that item using the QR code system using android application.

II. LITERATUREREVIEW

Agogo Mawuli (May 2014)[1] studied, "Goods and Service Tax-An Appraisal" and found that GST is not good for low-income countries and does not provide broad based growth to poor countries. If still these countries want to implement GST then the rate of GST should be less than 10% for growth.

Dr. R. Vasanthagopal (2011)[2] studied,"GST in India: A Big Leap in the Indirect Taxation System" and concluded that switching to seamless GST from current complicated indirect tax system in India will be a positive step in booming Indian economy. Success of GST will lead to its acceptance by more than 130 countries in world and a new preferred form of indirect tax system in Asiaalso.

Ehtisham Ahmed and Satya Poddar (2009)[3] studied, "Goods and Service Tax Reforms and Intergovernmental Consideration in India" and found that GST introduction will provide simplier and transparent tax system with increase in

output and productivity of economy in India. But the benefits of GST are critically dependent on rational design of GST.

Nitin Kumar (2014)[6] studied, "Goods and Service Tax- A Way Forward" and concluded that implementation of GST in India help in removing economic distortion by current indirect tax system and expected to encourage unbiased tax structure which is indifferent to geographical locations.

Pinki, Supriya Kamma and Richa Verma (July 2014)[7] studied, "Goods and Service Tax- Panacea For Indirect Tax System in India" and concluded that the new NDA government in India is positive towards implementation of GST and it is beneficial for central government , state government and as well as for consumers in long run if its implementation is backed by strong IT infrastructure.

III. OBJECTIVE OF STUDY

The study has following objectives:

- QR code based GST calculator to user for specific product
- Provide the Consultant for any queries.
- Time consuming before purchasing the product.
- Quick response from server when QR code scans.
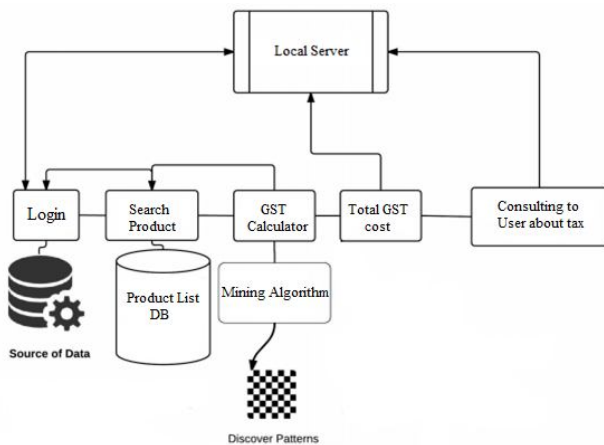
IV. RESEARCHMETHODOLGY

Fig 1. System architecture

User: - Multiple Nodes

Functions: -

Create account.
Login to account.
Check product wise tax

Check GST for overall
Scan QR code

Admin: - Multiple Nodes
Functions: -
Create account.
Confirm account.
Check Total list tax payable User

Tax Pay Option:

Function:-

Online tax pay option
Maintain Log
Bank Details for Online pay Option(Debit/Credit Card)

Keyword based Data Extraction:

1. Load the data on system framework
2. Preprocess the input request and generate the structure format
3. Apply requested query on the data for result
4. Check Weather the data is available on server or not
5. If yes then calculate the result
6. Display Record
7. Get the result analysis i.e we get the fast input data to the user.
8. Stop

V. CONCLUSION

GST will give India a world class tax system by grabbing different treatment to manufacturing and service sector. But all this will be subject to its rational design and timely implementation. We design easy to all customer for analysis the taxes using the QR code technology.

REFERENCES

[1] Agogo Mawuli (2014): "Goods and Service Tax- An Appraisal"Paper presented at the the PNG Taxation Research and Review Symposium, Holiday Inn, Port Moresby,29-30.

[2] Dr. R. Vasanthagopal (2011), "GST in India: A Big Leap in the Indirect Taxation System", International Journal of Trade, Economics and Finance, Vol. 2, No. 2, April 2011.

[3] Ehtisham Ahamad and Satya Poddar(2009), "Goods and Service Tax Reforms and Intergovernmental

Consideration in India", "Asia Research Center",LSE,2009.

[4] Girish Garg, (2014),"Basic Concepts and Features of Good and Service Tax in India".

[5] https://en.wikipedia.org/wiki/Goods_and_Services_Tax _(India)_Bill

[6] Nitin Kumar (2014), "Goods and Service Tax in India-A Way Forward", "Global Journal of Multidisciplinary Studies", Vol 3, Issue6, May 2014.

[7] Pinki, Supriya Kamna, Richa Verma(2014), "Good and Service Tax –Panacea For Indirect Tax System In India", "Tactful Management Research Journal",Vol2, Issue 10, July2014