

# E-Invoice Generator

Nita Dongre (Jaybhaye)<sup>1</sup>, Devendra Londhe<sup>2</sup>, Rushikesh Khilare<sup>3</sup>

<sup>1</sup>Professor, Dept of Computer Engineering, MIT polytechnic, Maharashtra, India

<sup>2,3</sup>Diploma in Computer Engineering, Dept of Computer Engineering, MIT polytechnic, Maharashtra, India

\*\*\*

**Abstract** - The invoicing process is part of a larger set of business processes that includes order placement and acceptance, delivery, and payment. Electronic invoicing allows you to send, receive, and process invoices without the need for human participation. It enables businesses to enjoy shorter payment delays, fewer errors, and lower printing and shipping costs. However, establishing electronic invoice interchange is typically complicated and costly, especially for small and medium-sized businesses. Aside from that, there are a slew of XML-based standards targeted at encoding electronic invoices, which creates a roadblock to widespread adoption and implementation. We propose our electronic invoicing system in this article, which provides low-cost, straightforward electronic invoicing to businesses, particularly small and medium-sized businesses. Providing secure access to the electronic business world the developed online application allows users to send, receive, and view electronic invoices, as well as save invoice data and link to an electronic invoice recipient and sender registry. The conversion between XML-based electronic invoices is given special attend

**Key Words:** visual studio code, E-Invoice Generator, GSTIN of supplier and recipient, control over payments, privacy and security.

## 1. INTRODUCTION

Providing secure access to the electronic business world the developed online application allows users to send, receive, and view electronic invoices, as well as save invoice data and link to an electronic invoice recipient and sender registry. The conversion between XML-based electronic invoices is given special attention.

People now interact actively with cellphones as a result of its development. As a result, customers want all of their personal and professional information coordinated and at their fingertips, making emails, instant messaging apps, and SMS a regular source of information. These are important methods for getting business information from companies to consumers (B2C). In addition, because e-invoicing solutions typically handle sensitive information, security is a crucial non-functional feature to consider. clients' confidential information to begin, this characteristic should be based on each country's digital invoicing rules and legislation. Furthermore, specific steps for proper information handling should be taken into mind. Authentication, content integrity, non-

repudiation of origin and recipient, secrecy and privacy, sequence integrity, and corresponding policies are all necessary needs.

### 1.1 Project Features

The GST Council adopted electronic invoicing to make B2B invoice reporting easier for enterprises with annual revenues of \$100 million or more. This system will unify the format for reporting invoices, with the primary goal of ensuring machine readability and uniform interpretation across all GST ecosystems.

### 1.2 Need of The Project

E-invoicing allows a business to automate its invoicing process. Buyers, suppliers, and other managers benefit from a variety of operational and strategic advantages as a result. The ability to automate the invoicing process and interface with other business systems provides business efficiency and revenue-generating options, in addition to cost savings. To avoid errors, online invoices generator calculates the total amount for you. It calculates taxes and ensures the correct client is billed.

## 2. LITERATURE SURVEY

IMPACTS OF THE IMPLEMENTATION OF ELECTRONIC INVOICING ON BUYER-SELLER RELATIONSHIPS The implications of implementing electronic invoicing on buyer-seller relationships are examined in this research. We use Cannon and Perreault's [1] paradigm to examine the changes in the relationship connectors between the two parties. We conclude that the deployment of electronic invoicing has a significant impact on both the information exchange and operational link-age elements, based on the qualitative interview information from a data case study. Furthermore, we discover that both parties have made adjustments as a result of the adoption of electronic invoicing. It was also determined that switching costs had increased and the seller's and customers' commitment had improved. While investments in electronic invoicing are being made, while electronic invoicing benefits buyers by lowering costs, it also benefits sellers by fostering long-term relationships and even dependence between the two sides.

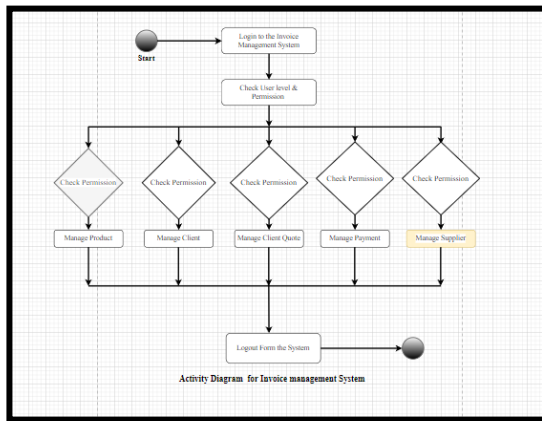


Chart -1: Activity diagram

### 2.1 E-Invoice – Detailed Workflow

The overall workflow of ‘e-invoice’ system is as follows:

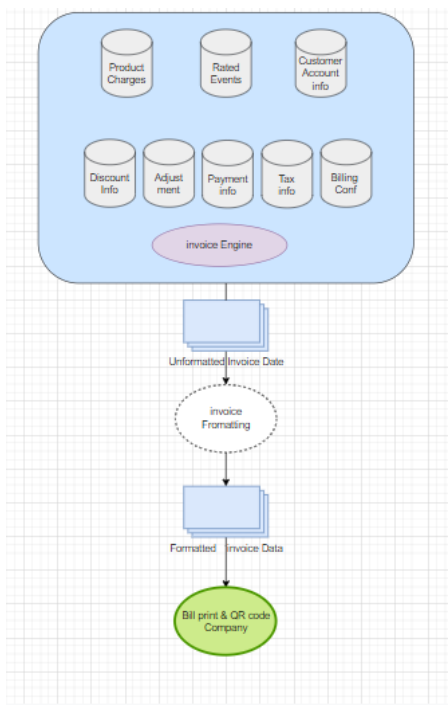


Fig -1: Workflow

### 3. CONCLUSIONS

An invoice generation tool is the lifeblood of a retail firm. It allows you to stay on top of all business operations from wherever. It ensures that your business runs smoothly and efficiently while also cutting operational costs. It also allows you to understand your consumers' behavior in a certain place, allowing you to manage your inventory in line with demand. So, if you don't want to lose out on the various ad-

vantages of billing software, it's vital that your retail business uses it right now.

Time-consuming operations like as invoice production, product tracking, and other accounting documentation may be automated using this technology. Furthermore, such software automatically calculates and applies tax on tax-able items, so you don't have to worry about it each time you bill.

### 3.1 Project objectives

Due to the large number of daily business transactions and the variety of non-standardized invoice formats used in India, e-invoicing will be a significant step forward. The major goal is to achieve interoperability throughout the entire GST eco-system, which means that an e-invoice issued by one software should be readable by any other software. An invoice can be uniformly interpreted thanks to machine readability. Aside from the aforementioned, this new e-invoicing system seeks to make invoice reporting an inherent part of a business process and eliminate the time-consuming chore of invoice preparation at the end of a return period. One of the major issues is claiming bogus Input Tax Credit (ITC) by producing fraudulent invoices. by the taxing authorities Because tax authorities would have real-time access to data, the e-invoice system will help to control the acts of unscrupulous taxpayers and reduce the number of fraud cases.

### 3.2 Project Features

The GST Council introduced electronic invoicing to make B2B invoice reporting easier for enterprises with annual revenues of \$100 million or more. This system will standardize the format for reporting invoices, with the primary goal of ensuring machine readability and uniform interpretation across all GST ecosystems. After approval by the Invoice Registration Portal, invoices are now allocated a unique Invoice Reference Number (IRN) (IRP). The IRP will generate a QR code, sign the e-invoice, and send it to the supplier after validating it. These qualities will help an invoice stand out from the crowd. Tax officers can use an offline programmed to track these documents even if they don't have access to the internet. This e-invoicing scheme was implemented into the Indian tax code with the goal of reducing tax fraud. In this post, we'll go over the characteristics of e-invoicing and why they're important for determining the uniqueness of each reported e-invoice.

### REFERENCES

- [1] Jose Villarreal, D.S Why is billing software important for retail shops, The First Art Newspaper on the Net, Established in 1996
- [2] Mike Driscoll A Simple Step-by-Step Report Lab Tutorial, Cross Platform, Python / By Mike / March 8, 2010 / Python PDF Series, Report lab, March

2017 - An Interview with Mike Driscoll, Author of Python 101 (Lean pub Podcast)

[3] Tutorials point, Python - Tintern Canvas, © 2021  
<https://pythonbasics.org>

[4] <https://pythonbasics.org/tkinter-canvas/>(23 may 2018)

[5][https://www.tutorialspoint.com/python3/python\\_gui\\_programming.htm\(2021\)](https://www.tutorialspoint.com/python3/python_gui_programming.htm(2021))

### **BIOGRAPHIES: -**



#### **Devendra Londhe,**

Student of MIT College of Engineering, Pune,  
I am currently pursuing my third year Bachelor of Engineering in Computer University of PUNE



#### **Rushikesh Khilare,**

Student of MIT College of Engineering, Pune,  
I am currently pursuing my third year Bachelor of Engineering in Computer University of PUNE



#### **Prof. Nita Dongre,**

Professor at MIT College of Engineering, PUNE,  
Department of Computer Engineering