

PAPERBILL — ALL-IN-ONE BILLING AND TRACKING WITH CONVERSATIONAL SUPPORT

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ABSTRACT

In this research paper we find a very detailed study on Paperbill which is a small to mid size shop and require an easy and quick method bill handlings and tax jobs. GST work and form making are the main components of it, monitoring goods, following buyers and sellers, and monitoring expenses. That it orientates towards offline usage keeps the business running continuously, meanwhile being on-the-internet saves data, provides stock update, alerts on payment, and supports many users. The major advantage of Paperbill is the convenient ability to interact with chatbot assistance, which guides even computer illiterate users at every stage of the billing and reports processes. The application also allows individuals to select various languages, and thus it is more convenient to work in other regions. Paperbill provides companies multitude of languages, off-line emphasis, and even chatbot assistance, easy, and nice method to conduct their work.

Keywords: *Billing and finance solutions, automated GST and accounting processes, desktop-only business application, cloud-connected financial system, SME bookkeeping tools, invoice monitoring and processing, conversational assistant integrations..*

INTRODUCTION

The majority of the small and medium shops are not capable of paying large sums of money to purchase software, products and pay tax as most of the market available software is either really expensive or difficult to work with. The biggest issue to shop owners relates to the fact that they lack the knowledge of computer, technology, or even how to handle money. Paperbill is here with a solution to this issue. It does not necessarily require the use of the internet as it can be operated in another desktop. It is straight forward, convenient to operate, and also affordable, thus shopkeepers have no major issue with handling it. With this

tool, people can make bills, check daily expenses, manage stock of goods, and also prepare GST reports without getting confused or facing hard steps. The biggest advantage of Paperbill is that it is very user-friendly. This software can be used by anybody irrespective of their knowledge in computers. Reason is since Paperbill contains chat bot within it. Chatbot will provide solutions to the user/visitor and also demonstrate to them the steps they are required to follow. The other positive aspect is that Paperbill is language supportable. The user is able to select the language of choice so that he/she can understand the system easily. This encourages the utilization of the software by people who are in other locations and in an easily comprehensible manner. It can be used online and offline as well, meaning that even in case the internet has not been established, the shop work will not halt. Paperbill have your-all-in-billing solutions. It also lets users choose the language they are best in, which makes it flexible. In this way, Paperbill is not only saving cost but also giving a smart and friendly way for shopkeepers to handle billing, expenses, inventory, and GST reports without any difficulties.

LITERATURE SURVEY

Billing, GST reports, and stock management can also be done with apps like Vyapar, Tally, Zoho Books, and Marg ERP. But the problem is these software are very costly for small shopkeepers, or they need internet all the time, or they are very hard to understand. Many small business owners cannot use them without help from experts, and most small and medium shops cannot pay for such expensive tools. This makes a gap between what the software can do and what the shopkeepers really need for their daily work. Many studies also show that more and more people now want billing software which does not always need internet, supports many languages, and is very easy to use. The solution to this problem is Paperbill. Paperbill is developed as desktop software that can be used offline initially and also has a chatbot to assist the end user. It is easy to use, simple, and accommodates a number of languages. Even when he/she is not conversant in English he/she can use their native language to do billing and money work. It enables small-scale businesses the opportunity to carry out billing, GST, and stocking without spending a lot of money or consulting professionals. Unlike other apps, Paperbill is able to run offline and online. What this implies is that, even in the event the internet is not functioning the shopkeepers will be able to carry on with their usual work without interruption. When internet comes

again all the data is updated. It also contains an AI chatbot in it that converses with the users and guides them the correct steps. Also, because it supports many languages, Paperbill can reach more users in different regions and is not limited to only English-speaking people. These features make it more effective and better compared to old traditional billing methods and even better than many costly software in the market. Paperbill is specially helpful for small and medium-sized businesses who want a smart but affordable solution for billing and accounts.

EXISTING WORK

Their accounting and money management is archaic or outdated in most small shops and enterprises. These methods require them to input a lot of information manually which may result in errors, is time-consuming and is not useful regarding large requirements like GST regulations, inventory management or auto-generated reports. Big shops like Tally ERP are popular among the larger ones as the latter can do much. Tally is not easy to learn because it needs training, and it becomes very hard for people who do not know accounting. Small shop owners and beginners cannot use it properly, so it is not useful for them. Even though Tally is strong software, its difficult steps do not fit for small shops who need simple

and fast working methods. Other apps like Vyapar and MyBillBook are trying to solve this by giving billing, items, and GST tools. But they also have problems like they need internet most of the time, they ask for payments again and again, and they do not give quick chat or step-by-step help. Also, many of these tools are only in English or Hindi, which is not easy for local people in other regions. Because of all these problems, there is a need for software which is simple, supports many languages, works offline, and also helps the user by talking with them.

PROPOSED SYSTEM

Paperbill - a one-stop bill and track tool with talking help, is a set plan created to address the issues of the old approaches used by small and mid-sized businesses. Their accounting and money management is archaic or outdated in most small shops and enterprises. The old way to manage the billing and accounting in a small business is too difficult. Paperbill offers an effortlessly simple, affordable and non-technical installation, which can be readily used with the internet or without. This software can run even when internet is not working. That means shop people can still do their work without any break. When the internet comes back, all the records get updated by itself. It also has safe login with OTP, and one person

can use it for more than one shop, which is very useful for owners who run many shops. The shopkeepers can create the bills, maintain the list of goods, verify the stock, and even create reports with this mode of software. Any or all these things are subject to updating. It is based on local SQLite database and API along with them, even in an absence of internet connection, the data can still be safe on the local computer. The shop owners also save their time on GST forms and reports in this software. It is compatible with the local system and the cloud system hence it is powerful and can be enhanced further in the future should the need arise. Paperbill also has a chat helper which is an AI providing the user with on the spot support. Nearly all languages are also supported by the software thus the user can use the program in the language they feel most comfortable. It also has options like sorting items in different ways, which makes it more simple and better than old type software. Its good appearance, multiple language support, chat assistance and offline or online availability, makes Paperbill a new and complete tool of small- or mid-size groups.

METHODOLOGY

It is created through a progressive and scaling approach whereby Paperbill an All-in One Billing and Tracking Tool with Conversational

Help can expand and is simple to use. The system is constructed with such tools Electron js, React.js, Next.js, Node.js, and SQLite, and this system constitutes cloud syncing the opportunity of backup and rapid application. The project begins with the mapping of the data flow during the system.

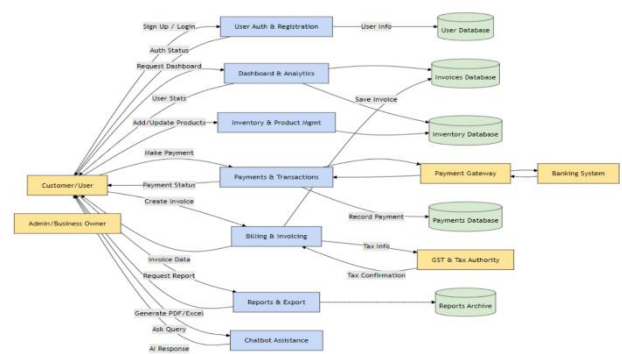


Figure 1: Data Flow Diagram.

This image demonstrates the way in which the parts are connected. It shows how tasks, such as signing-in, billing, handling goods, reports and chat of the user assist in working with databases, payment routes and GST servers. This connection will be beneficial to properly manage working activities making it secure and quick. After the path of parts was established, it was time to lay out the way in which these parts can communicate with one another. This measure is against. It shows how the flow of user requests in the system, the front end, the backend and cloud sync. The picture demonstrates the steps as to how to sign-in, select the firm and implement basic changes.

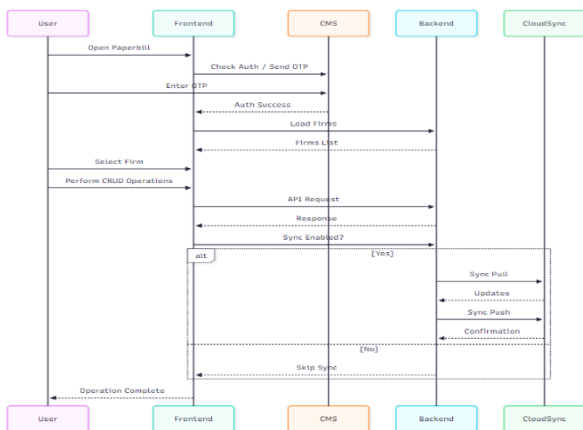


Figure 2: Sequence Diagram.

It also shows a cloud sync setup: when connected it syncs with the cloud, otherwise it still can just use the local SQLite. Such a mix model enables us to continue work in the event of a poor network connection. To make it easier to use the practice, therefore, Paperbill implements a chat helper that illustrates the steps to issue bills and GST reports to this point and expense tracking.

IMPLEMENTATION OUTCOMES

The issue of the Paperbill - namely invoicing and tracking application supported by chat services was a successfully released highly featured and multi-lingual, cloud-based billing product that was to attract the small and mid-sized enterprises. With various business environments, the system was both tested in terms of the dashboard analytics, language customization with an in built chat bot and the scale at which the system syncs with the cloud.

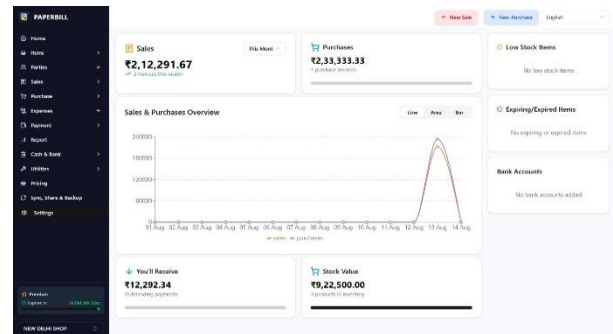


Fig. 3. Dashboard view with sales, expenses, and profit analysis.

The bit of the dashboard provided current business performance with a clear indication of the changes of the sales, costs, and profits control. It allowed the users to customize their special reports, monitor important statistics and observe the result without a detailed menu, and, thus, the decision was made quickly. The multilingual module and functional chatbot will enable the process to integrate communication to people using the language of their choice, and thus the software must work without intricacies. The chatbot has been useful in matters of the GST preparation, stock movements and even billing.

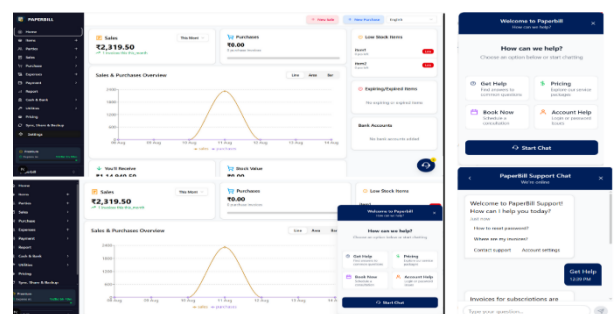


Fig. 4. Chatbot responding to a GST report request in Hindi.



Fig. 5. Multilingual interface example (English to Hindi switch).

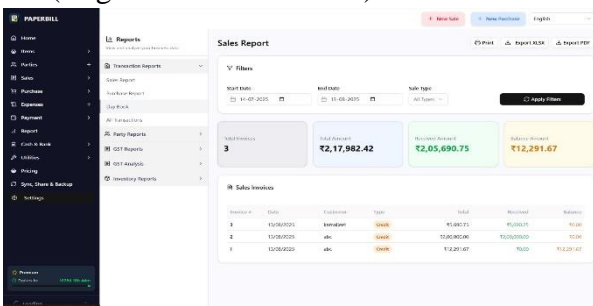


Fig. 6 Sales Reports

CONCLUSION

Paperbill a Billing and Tracking desktop application that has speech support is discussed and implemented, demonstrating another solution that may solve the problems of a business of an enterprise level that is small but one of the most powerful tools to help in solving the central issues of small and medium sized businesses. In short, other systems take more time, cost more money and need strong internet. But Paperbill is easy and works even without internet. When net comes back, it updates all data. It has billing, GST reports, cost check, and stock all in one place, so it is simple to use for shop owners. The app is also

easy to move around and gives help to users. People who don't know much about computers can also use it because there is a chat helper on screen which gives live support. Paperbill is made in many languages, so people from different places can use it in their own language. It is also cheap and good for small and medium shops to grow in today's world. It is simple, low cost, and modern at the same time. It makes billing fast, keeps reports in order, and even works when net is off. With more updates and new features, Paperbill will become even stronger for business use.

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