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Print on Air: Implementation of a Cloud-based Printing Order Management System.

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Abstract: During Covid-19 Pandemic, Offline Print shops are experiencing major dips in foot traffic. Yet, this doesn't mean shutting shops totally and trust that the circumstance will end. Merchants are utilizing the online space to receive orders, during the lockdown. There are many existing systems for this problem but there are some loopholes in each system, so there is a need for a system that offers the user to place orders from anywhere any time using the mobile application with the help of cloud computing. Before placing an order, the client should calculate of fairs, estimated time of delivery should be calculated. The user would pay using various payment methods like UPI, Net Banking, Debit & Credit card, and shop owner shouldn't need to invest large amounts. Internet affects human life with its technological innovation and fast development. Trust assumes a significant job in the Internet world; however, a trust relationship between the receiver and seller is dynamic and hard to quantify. Customer's apparent trust in an e-commerce website is significant for the accomplishment of online business. Given many associated usability issues when performing tasks on a website, an online business needs to understand issues related to usability problems of an e-commerce website and the techniques to identify these issues. In the proposed system, there should be the use of the latest programming languages, tools, and technologies like cloud computing. Thus, the system should provide a simple and practical cloud-based printing solution. The online store is the primary needs of online businesspeople. But there is a problem faced by business people who run their business on the online shop website, especially the technical aspect of online shop website management that is hard to do. This problem is very important because the need of businesspeople always changes rapidly based on the business situation. This makes business people adopt the changes of business needs to their online shop website. It is shown a comparative study on the effectiveness of the various methods for online printing service. The proposed system adds a competitive edge to your business with streamlined key processes and automated workflow and delivers complete control, effective order maintenance, and monitoring to help the printing business to increase sales.

Keywords: Cloud printing , Evaluation method, web print, component technology, Cloud computing

I. INTRODUCTION

As technology advances, the Internet has become part of our life. We exist in a generation of information explosion. Internet services and events evolve and change constantly out with the old and in with the new which generates a significant change in modern people's life and surfing habits. Today's consumers commonly search for the goods, luxuries, and even unpopular products they need through e-commerce platforms on the Internet. The Internet breaks through the restrictions of space, time, devices, and places. The ease of use of an e-commerce site is to furnish clients with acceptable exchange adequately and productively. It assists with getting a complete understanding of client's needs and improving product advancement to provide a superior user experience. With the development of Internet/Intranet technology, the applications based on the web increases day by day and involves in more and more fields. The comparatively backward online printing technology caused so much inconvenience to web development. Online shop website is one of the main requirements needed today by businessmen. This online application is used by them to manage and run their online business, which mostly correlates with an online transaction. In the perspective on past studies we have found that printing has become a key piece of the entire scholarly life of undergraduates. However, in today's printing services, most of them have the problem of high time cost and low efficiency. At the same time, the printer itself cannot count and analyze the entire data and cost. Therefore the online print service system is a more efficient measure for the above problems

II. LITERATURE REVIEW

- 1) *A sale-oriented Online-shop Management Support Method for E-Commerce*, Yoshitaka Sakurai, Takashi Kawabe, Takahiko Sakai, Kouhei Takada: When a sales heading of the sales management pages provided by the system is (selected and) set up, the system automatically generates a sales page preview which can be checked and modified by sale managers. The product group Database manager can generate, edit and delete a product group name also has an editing function to search and edit products belonging to a product group.

- 2) *The Design and Implementation of a Process-based Printing Order Management system, Yongbin Zhang, Huiling Ma:* This paper presents a system of information tracking to solve the problem of isolated order information among production processes. The BPMN (Business Process Model and Notation) specification is adopted for the establishment of the order process model. The model can be used to describe the company's core business and the order information transmission process with process-oriented thinking. The results show that order information can be transferred timely, fast, and accurately, which can avoid the delays or inaccuracies caused by manual operation. Meanwhile, the managers can always follow the tracks of the order progress and provide clients with advice.
- 3) *Component Design of Business Process Web Content Management System for Online Shop Website Rizal Panji Islami, Adi Mulyanto:* The business people who run their business on the online shop website, mostly face the problems of the technical aspect of online shop management which is hard to do. This problem is very important which makes business people adopt changes of business needs to their online shop website. This paper presents a designed solution that is done by component design approach for business process web content management system for an online shop. The web content management system is designed by analyzing atomic components that can be used to handle the needs of business people.
- 4) *E-Commerce personalized recommendation system based on web mining technology design and implementation, Sun Lin, Xu WenZheng:* E-commerce personalized recommence system design process and implementation process is implemented in this paper. In an E-commerce site personalized recommendation system based on a web mining process, first to the overall design, system design based on requirement analysis, and then to design the process, the last is the database design.
- 5) *Design Of Web Data Mining In Agents Based E-commerce, Shakti Kundu:* The role of a multi-agent system in an e-commerce environment is presented in this paper. Also, this paper presents data mining as an intelligent system and makes discussion and research on data resources, a key technology about the design. The three operations of data mining clustering, association, and sequential analysis are explained. Due to this presentation a trust between buyers and sellers increases which results in increase visiting of websites.

III.PURPOSE

venders and customers can get together through the online Printing platform, and in that way, we can enjoy more and more convenient business services. An on-line printing system provides a basic printing service for digital works so that consumers can upload and print at any time to achieve an efficient online printing approach. In this system, the on-line print ordering module has completed all the required features, and consumers can easily navigate to the various works hits, get a convenient and quick understanding of work-related information and make a purchase.

IV.PROPOSED ARCHITECTURE

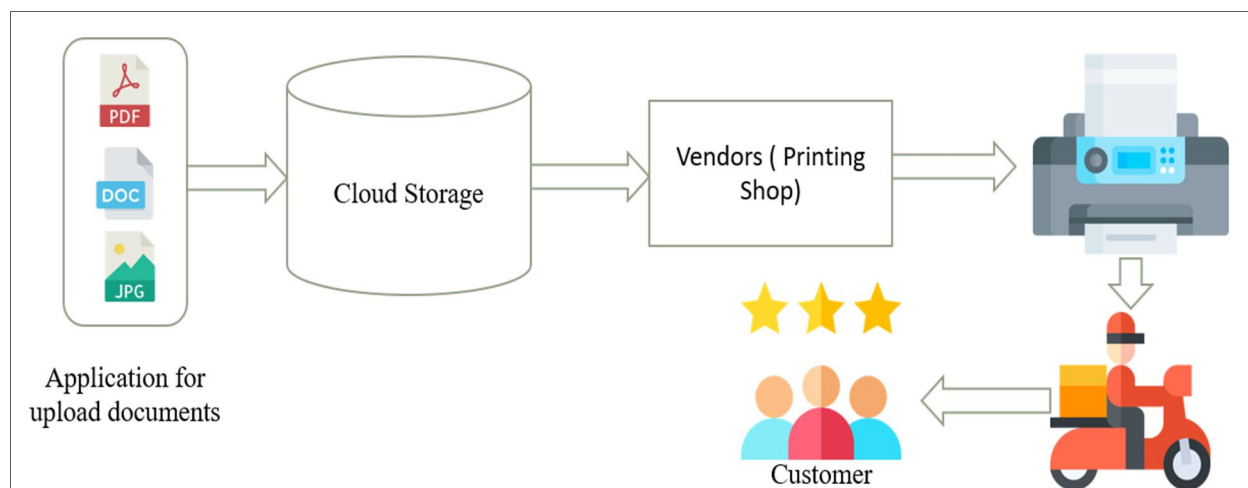


Figure 1 System Architecture

In this approach, provide an application to the client which allows for purpose of printing application which searches or upload the required media of product and then it processes further for printing it depends on input from a user. It shows the all-available vendors nearby to the user for printing. Then a user can choose the vendor and pay by selecting a payment mode. The uploaded document store on cloud storage.

After completing the task, a notification will send to the user automatically. It likewise incorporates time, assets, specialized necessities, and customer prerequisites. The proposed system will able to maintain customer, employee, and supplier details. This gives a simple method to search, filter, and update the records. The system can manage and maintain invoice and order detail. The system would keep records of customer's order history and provision to use them later. This also includes an effective and exact way to generate invoices. The stock management system will provide an effective way to manage the stock and automatically notifies when the reorder level is reached. It is also able to provide stock reports for the vendors. In this study, we compared various existing solutions with our proposed system.

V. CONCLUSION

A proposed printing management system will be deployed as Software as a service model. Buyers and merchants can get together through the online cloud-based platform, and in that way, we can enjoy more and more convenient business services. An on-line printing system provides a basic printing service for digital works so that consumers can upload and print at any time to achieve an efficient online printing approach. In this system, the on-line print ordering module has completed all the required features, and consumers can easily navigate to the various works hits, get a convenient and quick understanding of work-related information and make a purchase. However, we also need to improve in some areas, such as the module's security features, the lack of corresponding data encryption, and when transaction payments should be involved; you can try to make another payment method such as UPI, net banking, PayPal and other forms of payment.

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