MONEY TRANSACTION IN E-COMMERCE APPLICATION USING FACE RECOGNITION

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Abstract-
The most prevalent issue nowadays in the modern world is credit card fraud. This is due to the growth in internet transactions and e-commerce websites. When a credit card is stolen and used for unauthorized purposes, or when a fraudster uses the card's information for his own gain, credit card fraud happens. Because the credit card offers significant usage as a payment instrument, it is often used. As we all know, there are several opportunities for attackers or hackers to acquire sensitive data from online transactions. For both valid and invalid transactions, the information is processed and an acknowledgement is given to the bank. Facial detection and facial recognition technology employing the Haar Cascade algorithm will be used in a credit card transaction system. Attacks on several privacy concerns, such as credit cards, are the major issue that credit card users deal with. Typically, individuals experience this when their credit card is given to an unexpected party or misplaced. Therefore, we are developing a system that will lower the possibility of credit card fraud. The technology we're working on will compare the person's face in the photograph to the dataset for that user. A database will be kept for the purpose of authentication. If the photos line up, it signifies the user is real, and processing will be permitted; otherwise, the transaction will not be allowed.

I.INTRODUCTION

E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace. For example, the objective of project is to develop a general purpose e-commerce store where any product (such as books, CDs, computers, mobile phones, electronic items, and home appliances) can be bought from the comfort of home through the Internet. An online store is a virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order. At that time, more information will be needed to complete the transaction. Usually, the customer will be asked to fill or select a billing address, a shipping address, a shipping option, and payment information such as credit card number. In this project the credit card transaction is using face recognition technology. If the face detection process is completely finish then only move on to the next process. An e- mail notification is sent to the customer as soon as the order is placed. Seller selling products on the web often ask or take reviews from customers about the products that they have purchased. As e-commerce is growing and becoming popular day-by-day, the number of feedback received from customer about the product grows rapidly. For a popular product, the feedback can go up-to thousands. This creates difficulty for the potential customer to read them and to make a decision whether to buy or not the product. Problems also arise for the manufacturer of the product to keep track and to manage customer opinions. And also additional difficulties are faced by the manufacturer because many other merchant sites may sell the same product at good ratings and the manufacturer normally produces many kinds of products.

II.SYSTEM ANALYSIS

The existing system is handled manually. The system has a formatted online shop system for Sales in paper work. The indent is prepared when items are to be purchased and bill is generated for sale of items. The system follows large number of paper work for maintaining product details and user can be difficult to

search the product in database. In some places the Barcodes are often intended for consumer use where using a barcode device, a consumer can take an image of a barcode on a product. The barcode must be read using computer vision techniques and barcode can hold information, it makes this vision task in consumer scenarios unusually challenging. Barcode decoder can give the vision algorithm feedback, and develop a progressive strategy of the product. The proposed system is developed after a detailed study about the requirements requested by the user. Proposed system is a computerized one, where all the limitations of manual system are compensated. Product details of online shopping system with credit card transaction based on face recognition technology have simplified the working information and make a user friendly environment, where the user is provided with much flexibility to manage effectively. It helps the retailer to generate desirable reports more quickly and also to produce better results. In the proposed system, we are using face detection using web application to provide secure transaction authenticity of credit card holder for online shopping. In this project the user can buy a product through this website, after buying the products the user can pay the amount using credit card transaction with face detection. So face detection verifies user face by capturing it using camera, after successful face detection method the user can pay the purchased amount.

III.DEVLOPMENT ENVIRONMENT

A system architecture or systems architecture is the conceptual model that defines the structure, behavior, and more views of a system. An architecture description is a formal description and representation of a system, organized in a way that supports reasoning about the structures and behaviors of the system. System architecture can comprise system components, the externally visible properties of those components, the relationships (e.g. the behavior) between them. It can provide a plan from which products can be procured, and systems developed, that will work together to implement the overall system. There have been efforts to formalize languages to describe system architecture; collectively these are called architecture description languages (ADLs).
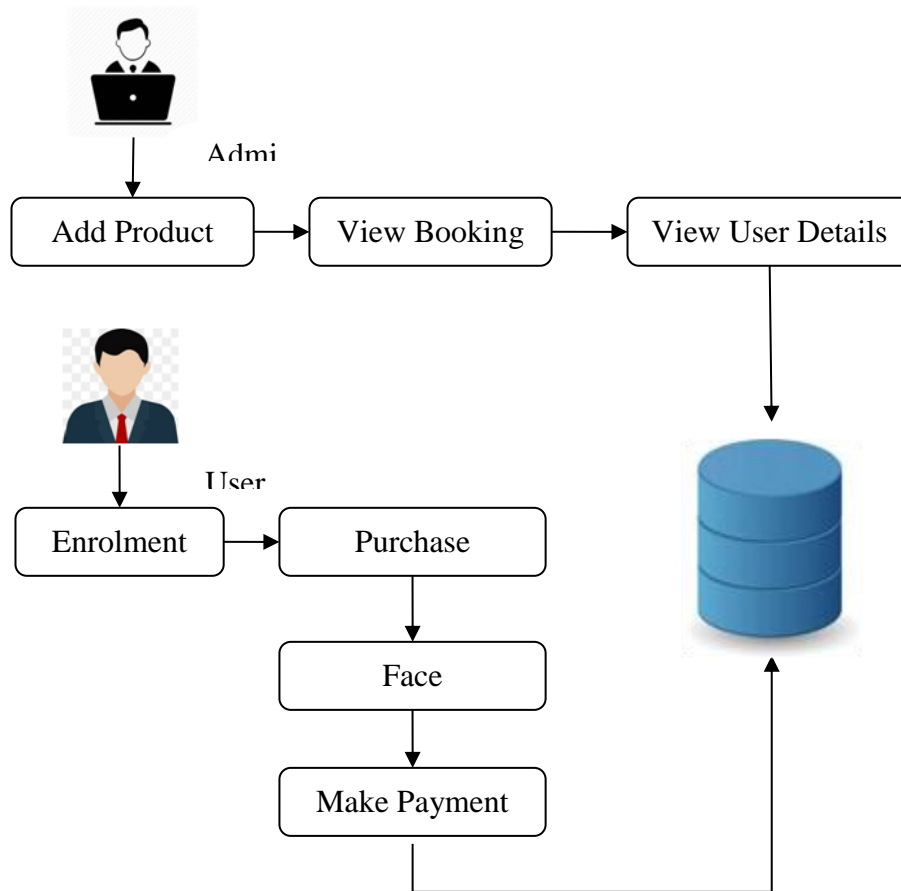

Fig.3a.System architecture

A quality output is one, which meets the requirements of the end user and presents the information clearly. In any system results of processing are communicated to the users and to other system through outputs. In output design it is determined how the information is to be displaced for immediate need and also the hard copy output. It is the most important and direct source information to the user. Designing computer output should proceed in an organized, well thought out manner; the right output must be developed while ensuring that each output element is designed so that people will find the system can use easily and effectively. When analysis design computer output, they should Identify the specific output that is needed to meet the requirements.

IV. SYSTEM IMPLEMENTATION

Implementation is the stage in the project where the theoretical design is turned into a working system. The most critical stage is achieving a successful system and in giving confidence on the new system for the users, what it will work efficient and effectively. It involves careful planning, investing of the current system, and its constraints on implementation, design of methods to achieve the changeover methods. The implementation process begins with preparing a plan for the implementation of the system. According to this plan, the activities are to be carried out in these plans; discussion has been made regarding the equipment, resources and how to test activities. The coding step translates a detail design representation into a programming language

Realization. Programming languages are vehicles for communication between human and computers programming language characteristics and coding style can profoundly affect software quality and maintainability. The coding is done with the following characteristics in mind.

V.CONCLUSION

This project entitled as "Money Transaction in E-Commerce Application Based on Face Recognition Technology" has been developed to satisfy all the proposed requirements. The process of recording details about online shopping is more simple and easy. The system reduces the possibility of errors to a great extent and maintains the data in an efficient manner. User friendliness is the unique feature of this system. The system generates the reports as and when required. The system is highly interactive and flexible for further enhancement. The coding is done in a simplified and easy to understandable manner so that other team trying to enhance the project can do so without facing much difficulty. The documentation will also assist in the process as it has also been carried out in a simplified and concise way.

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