**E-Commerce Web App**

**A PROJECT REPORT**

**for**

**Mini Project (KCA353)**

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**Under the Supervision of**

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**Submitted to**

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**(December 2023)**

**DECLARATION**

I hereby declare that the work presented in report entitled “E-Commerce Web App ” was carried out by me. I have not submitted the matter embodied in this report for the award of any other degree or diploma of any other University of Institute. I have given due credit to the original authors/sources for all the words, ideas, diagrams, graphics, computer programs, that are not my original contribution. I have used quotation marks to identify verbatim sentences and give credit to the original authors/sources. I affirm that no portion of my work is plagiarized, and the experiments and results reported in the report are not manipulated. In the event of a complaint of plagiarism and the manipulation of the experiments and results, I shall be fully responsible and answerable.

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**CERTIFICATE**

Certified that Harsh kain (2200290140065) has carried out the research work presented in this thesis entitled “E-Commerce Web App” for the award of Master of Computer Application from Dr. APJ Abdul Kalam Technical University, Lucknow under my/our (print only that is applicable) supervision. The thesis embodies results of original work, and studies are carried out by the student himself/herself (print only that is applicable) and the contents of the thesis do not form the basis for the award of any other degree to the candidate or to anybody else from this or any other University/Institution.

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**ABSTRACT**

The purpose of Online E-commerce System is to automate the existing manual system by the help of computerized equipment’s and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Online E-commerce System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its existing manual system by the help of computerized equipment’s and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

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**Chapter 1: Introduction**

* 1. **Overview**

The "Online E-commerce System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner. The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. Online E-commerce System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. Every organization, whether big or small, has challenges to overcome and managing the information of Item Category, Men, Woman, Child, Delivery Address, Order. Every Online E-commerce System has different Food needs, therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executive who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

* 1. **Problem Statement**

In the rapidly evolving landscape of online commerce, there is a growing demand for robust and scalable e-commerce platforms. Traditional methods of shopping are being replaced by digital experiences, creating a need for feature-rich and user-friendly online stores. Existing e-commerce solutions often come with limitations, making it challenging for businesses to tailor their platforms to specific needs and requirements.

* 1. **Objectives**

The main objective of the Project on Online E-commerce System is to manage the details of Clothes, Item Category, Shopping Cart, Customer, Order. It manages all the information about Clothes, Delivery Address, Order. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Clothes, Item Category, Delivery Address, and Shopping Cart. It tracks all the details about the Shopping Cart, Customer, Order.

* 1. **Scope**

It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to Online E-commerce System. It will be also reduced the cost of collecting the management & collection procedure will go on smoothly. Our project aims at Business process automation, i.e. we have tried to computerize various processes of Online E-commerce System.

* In computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time.
* In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.
* To assist the staff in capturing the effort spent on their respective working areas.
* To utilize resources in an efficient manner by increasing their productivity through automation.
* The system generates types of information that can be used for various purposes.
* It satisfy the user requirement
* Be easy to understand by the user and operator
* Be easy to operate
* Have a good user interface
* Be expandable
* Delivered on schedule within the budget.
  1. **Feature**
* Product and Component based
* Creating & Changing Issues at ease
* Query Issue List to any depth
* Reporting & Charting in more comprehensive way
* User Accounts to control the access and maintain security
* Simple Status & Resolutions
* Multi-level Priorities & Severities.
* Targets & Milestones for guiding the programmers
* Attachments & Additional Comments for more information
* Robust database back-end
* Various level of reports available with a lot of filter criteria's • It contain better storage capacity.
* Accuracy in work.
* Easy & fast retrieval of information.
* Well-designed reports.
* Decrease the load of the person involve in existing manual system.
* Access of any information individually.
* Work becomes very speedy.
* Easy to update information
  1. **Hardware / Software Requirement**

Hardware Requirement

|  |  |
| --- | --- |
| **S. N.** | **Description** |
| 1 | PC with 5 GB or more Hard disk. |
| 2 | PC with 2 GB RAM. |
| 3 | PC with core i3 or above processor. |

Software Requirements

|  |  |  |
| --- | --- | --- |
| **S. N.** | **Description** | **Type** |
| 1 | Operating System | Windows 10 or 11 or  Ubuntu 18.04 or above |
| 2 | Language | Python 3 |
| 3 | Front End | React 17 |
| 4 | IDE | Google Colab, VS Code |
| 5 | Browser | Chrome, Firefox, Edge |

**CHAPTER 2: FEASIBILITY STUDY**

After doing the project Online E-commerce System, study and analyzing all the existing or required functionalities of the system, the next task is to do the feasibility study for the project. All projects are feasible - given unlimited resources and infinite time. Feasibility study includes consideration of all the possible ways to provide a solution to the given problem. The proposed solution should satisfy all the user requirements and should be flexible enough so that future changes can be easily done based on the future upcoming requirements.

* 1. **Economical Feasibility**

This is a very important aspect to be considered while developing a project. We decided the technology based on minimum possible cost factor.

* All hardware and software cost has to be borne by the organization.
* Overall we have estimated that the benefits the organization is going to receive from the proposed system will surely overcome the initial costs and the later on running cost for system.
  1. **Technical Feasibility**

This included the study of function, performance and constraints that may affect the ability to achieve an acceptable system. For this feasibility study, we studied complete functionality to be provided in the system, as described in the System Requirement Specification (SRS), and checked if everything was possible using different type of frontend and backend platforms.

* 1. **Operation Feasibility**

No doubt the proposed system is fully GUI based that is very user friendly and all inputs to be taken all self-explanatory even to a layman. Besides, a proper training has been conducted to let know the essence of the system to the users so that they feel comfortable with new system. As far our study is concerned the clients are comfortable and happy as the system has cut down their loads and doing.

* 1. **Behavioural Feasibility**

The behavioural feasibility of our proposed e-commerce project is highly promising, as it aligns seamlessly with the contemporary attitudes and preferences of potential users. Market research indicates a widespread acceptance of online shopping, and our platform caters to this trend by offering a user-friendly interface, responsive design for mobile devices, and robust security measures. The project addresses user concerns through clear communication of security protocols and trust-building elements such as secure payment gateways. Additionally, our commitment to providing excellent customer support and feedback mechanisms ensures a positive user experience, building trust and credibility. With a focus on cultural adaptability, intuitive on boarding processes, and integration with social media platforms, the project aims to not only meet but exceed user expectations, fostering a strong and loyal customer base in the competitive e-commerce landscape.