

Project Report
ICT Store management system

For the partial fulfilment of DBMS Laboratory

Submitted By
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B190040CS

Under the Supervision of
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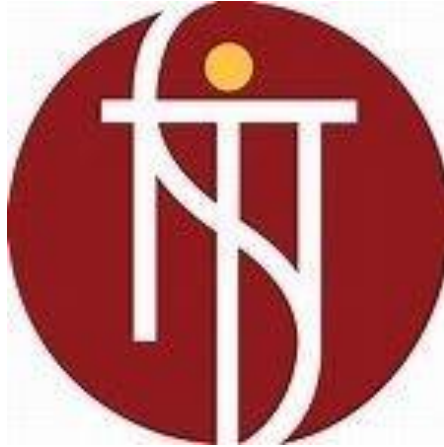


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CERTIFICATE



This is to certify that the project report entitled “ICT Store management system”, submitted by Mr. Swaraj Kumar bearing Roll No. B190040CS is an authentic report for the work carried out under my supervision as a part of DBMS Laboratory during the Monsoon semester, 2021 at National Institute of Technology Sikkim, Ravangla-737139, Sikkim.

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ACKNOWLEDGEMENT

First and foremost, I would like to express my deepest gratitude to my supervisor, **Dr. Sangram Ray**. It has been an honour for me to do a project under his supervision and sincerely thank him for his excellent guidance, support and motivation in every step throughout the whole period of my project.

I am indeed grateful to all the faculties and staff of the National Institute of Technology Sikkim for providing an environment conducive to my project.

Finally, I would like to thank God Almighty for giving me the strength, knowledge, ability and opportunity to undertake this project study and to persevere and complete it satisfactorily.

Swaraj Kumar

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5th semester, 3rd year undergraduate

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APPENDIX

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ABSTRACT

The mission of the ICT Store Management project is to establish an online platform where customers and sellers both can perform trade of devices and technologies used in information and communication.

The main goal to develop this web application is to encourage the e-commerce industry. ICT store management system is a web software application that is used to manage day-to-day sales of technologies or devices related to information and communication like laptops, lab tools, etc. Such a data management system is quite cumbersome in an offline management system, primarily due to huge sales.

INTRODUCTION

What is ICT store management system?

It is simply the management of buying and selling of various devices and technologies over an online platform. Such systems are mainly used by people related to academics or for commercial purposes.

Key Points -

- **Convenience** - It is a tedious task for the businessman to maintain a single updated record of all the branches by an offline system as the records need to be edited by people sitting in different locations.
- **Time Saving** - As each of the employee can edit the database through his personal system, the time to update is considerably reduced.
- **Information Availability & Business Modelling** - As the data is now stored in a single database (via online system), we can easily access and analyse sale-purchase data at any instant which is quite essential for large scale business.
- **Secured** - As the data is now stored in digital format, we can limit the access and ensure even better data security as compared to an offline one.

REQUIREMENT ANALYSIS

Requirement Gathering:

Requirement Analysis is the first and important step in the Software development activity for building robust and user-friendly applications. I have started working on determining the functionalities that the application should provide. I have done a good amount of research on existing systems and the disadvantages of those. Once the functional requirements were finalized, I did research on the current technologies that are widely used in the industry.

Requirements Specification:

Hardware requirements -

- CPU - Intel Core 2
- RAM - 512MB (min)
- Hard Disk - 50GB (min)

Software requirements:

- PHP7, MySQL (Backend and DBMS)
- IDE (Visual Studio Code)
- HTML5, CSS3, Bootstrap 4, JS (Frontend)

Entities & their relations

After analysing the problem, we can identify following entity and their relations.

Entities -

- Users

 - User cart

 - User orders

 - Queries

- Products

 - Product categories

 - Product colour

Their Relations -

- Manages

Relational Tables

b2b_ict_ecommercial_web user_orders	
#	cid : int(11)
#	pid : int(11)
#	sid : int(11)
#	quantity : int(3)
#	selected_color : varchar(255)
#	delivery_by : date
#	status : varchar(255)

b2b_ict_ecommercial_web users	
#	uid : int(11)
#	name : varchar(255)
#	email : varchar(255)
#	category : varchar(255)
#	gender : varchar(255)
#	address : varchar(255)
#	phone : varchar(10)
#	password : varchar(255)
#	active : int(1)
#	last_updated_at : datetime

b2b_ict_ecommercial_web queries	
#	qid : int(11)
#	name : varchar(255)
#	email : varchar(255)
#	query : varchar(255)
#	reply : varchar(255)

b2b_ict_ecommercial_web user_cart	
#	cid : int(11)
#	pid : int(11)
#	sid : int(11)
#	quantity : int(3)
#	color : varchar(255)
#	delivery_by : date

b2b_ict_ecommercial_web product_color

color_id : int(11)
color_name : varchar(255)

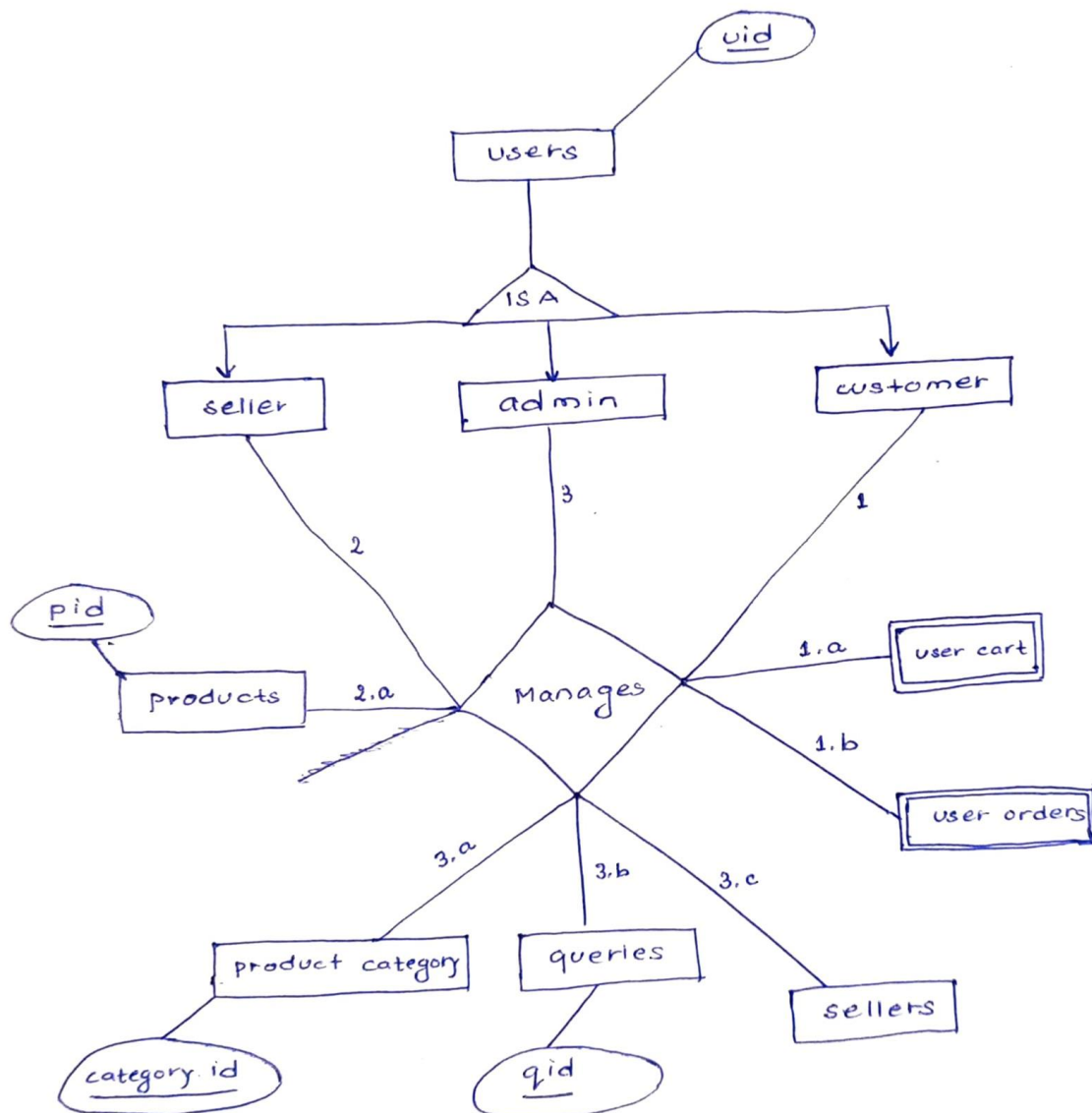
b2b_ict_ecommercial_web products

pid : int(11)
name : varchar(255)
category_id : int(1)
price : varchar(255)
color_id : varchar(255)
descr : varchar(255)
stock : int(1)
sid : int(11)
trending : int(1)
last_updated_at : datetime

b2b_ict_ecommercial_web product_categories

category_id : int(1)
category_name : varchar(255)
category_tagline : varchar(255)

ER Diagram



Project Previews

Admin -

- Admin can reply to any query as well as update previous replies sent.
- Admin can update an existing category as well as add a new category.
- Admin can suspend a seller account if performance of a seller is seriously poor.
- Admin can check performance of an active seller.

ICT Commercial

[Home](#) [Logout](#)



Sellers

Lorem ipsum dolor sit amet consectetur adipisicing elit.
In nam eligendi odio dolores numquam assumenda
quam provident mollitia, aut neque.



Queries

Lorem ipsum dolor sit amet consectetur adipisicing elit.
In nam eligendi odio dolores numquam assumenda
quam provident mollitia, aut neque.



Categories

Lorem ipsum dolor sit amet consectetur adipisicing elit.
In nam eligendi odio dolores numquam assumenda
quam provident mollitia, aut neque.



Performance

Lorem ipsum dolor sit amet consectetur adipisicing elit.
In nam eligendi odio dolores numquam assumenda
quam provident mollitia, aut neque.

Seller -

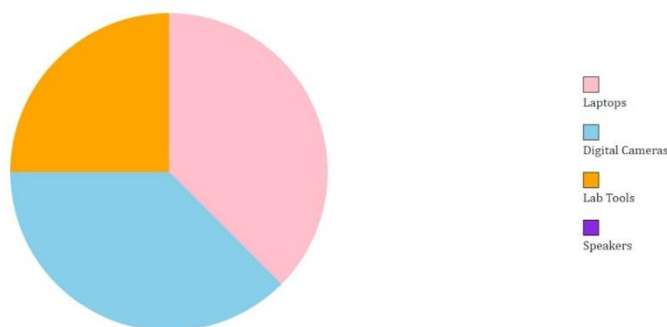
- A seller can view his dashboard to visualize a quick glance of his shop.
- A seller can come to his shop and manage his products added to the store.
- Any user including sellers have access to update his profile that includes their credentials and other related information.
- Any user including sellers can always contact the admin to request a feature or for any sort of help.

ICT Commercial

[Home](#) [Dashboard](#) [Shop](#) [Profile](#) [Logout](#)

Product by scale

Here is a piechart accounting number of products in stock of a particular kind.



Product by quantity

Here is an account of categories of products versus number of products added with stock availability.

Product category	Quantity(in stock)
Laptops	3
Digital Cameras	3
Lab Tools	2
Speakers	0

Your Best Sellings

Lorem ipsum dolor sit amet consectetur adipisicing elit. Vitae omnis nisi, sequi inventore dignissimos sunt? Cum reprehenderit eligendi eius blanditiis?

Product	Price	Quantity	Color	Total	Deadline	Status
Dell Inspiron	₹ 54000	4	Grey	216000	2021-12-19	Ordered
Lenovo Ideapad	₹ 50000	2	Sky Blue	100000	2021-12-19	Ordered

Add Product

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Rerum, eum.

Name:

e.g. Dell Inspiron

Colors:

e.g. Blue,Black

Best Price (in ₹):

1

Category:

laptops

Availability Status:

In Stock

Description:

Provide short and clear description of the product.

ADD

Update Product

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Rerum, eum.

Name:

Voltmeter Fluke

Colors:

Yellow,White,Black

Price (in ₹):

600

Category:

Lab Tools

Stock:

Out of Stock

Description:

A voltmeter is an instrument used for measuring electric potential difference between two points in an electric circuit. It is connected in parallel. It usually has a high resistance so that it takes negligible current from the circuit.

UPDATE

Customer -

- A customer can view products page as well as trending page.
- A customer can add or delete products from the cart as well as update cart.
- Any user including customer have access to update his profile that includes their credentials and other related information.
- A customer can check the status of products he had ordered and remove product in case they don't want it.

Laptops

We bring an outstanding collection of laptops and desktops personalized for you and only you.



Dell Inspiron

Dell Inspiron is a Windows 10 laptop with a 15.60-inch display that has a resolution of 1920x1080 pixels. It is powered by a APU Quad Core A6 processor and it comes with 8GB of RAM. The Dell Inspiron packs 1TB of HDD storage. Graphics are powered by Nvidi

[View](#)

Lenovo IdeaPad

Lenovo IdeaPad is a Windows 10 Home laptop with a 15.60-inch display that has a resolution of 1366x768 pixels. It is powered by a Celeron Dual Core processor and it comes with 4GB of RAM. The Lenovo IdeaPad 110 packs 1TB of HDD storage. Graphics are power

[View](#)

Hp Vantage

Dell Inspiron is a Windows 10 laptop with a 15.60-inch display that has a resolution of 1920x1080 pixels. It is powered by a APU Quad Core A6 processor and it comes with 8GB of RAM. The Dell Inspiron packs 1TB of HDD storage. Graphics are powered by Nvidi

[View](#)

Digital Cameras

Here is a collection of best sellings of digital cameras.



Canon Eos 5s

Canon EOS (Electro-Optical System) is an autofocus single-lens reflex camera (SLR) and mirrorless camera series produced by Canon Inc. It competes primarily with the Nikon F series and its successors, as well as autofocus SLR systems from Olympus Corporat

[View](#)

Fujifilm Instax Mini 8

Fujifilm Instax Mini 8 in cameras with one of two sensor sizes – APS-C and medium format. The mirrorless and fixed-lens X cameras all have APS-C sensors, providing a generous upgrade over a smartphone or small compact while allowing the bodies to stay sma

[View](#)

Sony Xdcam 4k

XDCAM is a series of products for digital recording using random access solid-state memory media, introduced by Sony in 2003. Four different product lines – the XDCAM SD, XDCAM HD, XDCAM EX and XDCAM HD422 – differ in types of encoder used, frame size, co

[View](#)

Lab Tools

Here are a variety of tools that help you analyze things way easier and accurate.



Ammeter Cds

An ammeter is a measuring instrument used to measure the current in a circuit. Electric currents are measured in Amperes, hence the name. The ammeter is usually connected in series with the circuit in which the current is to be measured.

[View](#)

Multimeter Excel

A multimeter or a multi tester, also known as a volt/ohm meter or VOM, is an electronic measuring instrument that combines several measurement functions in one unit. A typical multimeter may include features such as the ability to measure voltage, current

[View](#)


Voltmeter Fluke

A voltmeter is an instrument used for measuring electric potential difference between two points in an electric circuit. It is connected in parallel. It usually has a high resistance so that it takes negligible current from the circuit.

[View](#)

My Cart

Lorem ipsum dolor sit amet consectetur adipisicing elit. Nihil, itaque.



Dell Inspiron

₹ 54000


Grey

1

Delivery by : 2021-12-20 9:30 PM IST

BUY NOW

REMOVE



Fujifilm Instax Mini 8

₹ 13000

Sky Blue

5

Delivery by : 2021-12-20 9:30 PM IST

BUY NOW


REMOVE

Update Cart

Proceed to Checkout

My Orders

Lorem ipsum dolor sit amet consectetur adipisicing elit. Nihil, itaque.



Dell Inspiron

₹54000


Grey

Set of 4

Arrives at : 2021-12-19 9:30 PM

TRACK

CANCEL



Lenovo Ideapad

₹50000

Sky Blue

Set of 2

Arrives at : 2021-12-19 9:30 PM

TRACK

CANCEL



Lenovo Ideapad

Lenovo IdeaPad is a Windows 10 Home laptop with a 15.60-inch display that has a resolution of 1366x768 pixels. It is powered by a Celeron Dual Core processor and it comes with 4GB of RAM. The Lenovo IdeaPad 110 packs 1TB of HDD storage. Graphics are power

Owner : Swaraj Kumar Chaudhary

Best Price : ₹ 50000

In Stock

BUY NOW

ADD

REMOVE

CONCLUSION

“ICT Store Management System is a real change”

- The ICT Store Management System is not just about conducting business transactions via the Internet. Its impact will be far-reaching, and more prominent than we know currently. This is because the revolution in information technology is happening simultaneously with other developments, especially the globalization of the business.
- We know that pandemic is on head, this is a best reason why this website will bring a change.
- The main motive of making this project was to make buying and selling of products related to information and communication technologies like laptops, lab tools, etc. in a much easier, convenient and effective manner.

REFERENCES

Book Referred:

**Henry F Korth, Abraham Silberschatz, "Database system concepts",
McGraw-Hill International editions, Computer Science Series**

Referred to:

- [W3Schools Online Web Tutorials](#)
- [YouTube](#)