



**ISRA UNIVERSITY HYDERABAD
DEPARTMENT OF COMPUTER SCIENCE
FINAL YEAR PROJECT REPORT**

**PrinteX – Digital Printing System
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of Science in Computer Science**

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**FACULTY OF ENGINEERING, SCIENCE & TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE**

Certificate

This is to Certify that Sunny Sagar, Saad Baig, Moiz Hasnain has worked under my supervision for the BS(CS)/BS(SE) project titled PrinteX - Digital Printing System, as per partial requirement for the award of the degree of BS(CS)/BS(SE) and the work is original and satisfactory.

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DEDICATION

This project PrinteX – Digital Printing System is dedicated to our parents, and our respected teachers who supported in throughout the work process and helped to make it possible.

ACKNOWLEDGEMENT

First and foremost, we would like to thank our supervisor and co-supervisor of this project for the valuable guidance and advice. We would like to express our appreciation to our supervisor Dr. Amber Baig who was a great role model through the course of this project. Her advice and guidance allowed us to perform fullest potential.

An incomparable appreciation to Mr. Imtiaz Koondher whom we discussed and shared findings with. Without his assistance in conducting our experiments, the completion of this project would not be as successful.

Finally, an honor and due credit goes to our families and friends for their understandings and support for providing valuable tips in completing this project.

ABSTRACT

The purpose of PrinteX – Digital Printing System is to place online printing order hassle free and time saving, this will automate the existing manual system by the help of computerized equipment and full-fledged computer software, full filling their requirement. So that their valuable data/information can be stored for a longer period of time with ease of accessing and manipulation. The required software and hardware are easily available and easy to work with.

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CHAPTER 1

INTRODUCTION

1.1 Background:

In daily life we have to struggle going out for printing work, we go to printing shop and wait for a while to book our order and wait more to get it done. For big order we have to wait like a day to get it completed and delivered in hand.

In every printing shop with a number of employees it is difficult to manage records of daily transactions, available items in inventory and categories manually on a paper register. If a shop owner finds a situation that is unsustainable then action must be taken urgently. With increasing number of complains of missing details of daily transactions and records, it becomes necessary to create a solution that will not only satisfy employees, but will generally replace original solution and bring new opportunities for the shop owners. This works discusses ways to change the current situation and what solutions are the best to minimize weaknesses and maintain security of records.

1.2 Introduction:

Information and technologies are the fast-growing industry in the modern world. For shops that want to be competitive, it is essential to be interested in new technologies. This is why we developed web-based application that provides an automated platform for Users to place online orders of Photocopy, Panaflex, Pamphlet and many types of Printable items from their homes. The system also allows users to check their order details and status as well as the shop owners to check placed online orders, store the shop's transaction along with the relevant details such as the printing items, prices, and payments. The system allows partial payments. It contains pleasant user interface and user-friendly functionalities. The system also generates printable reports, which are the Daily Transactions, Date-wise Transactions, and Date-wise Payments. This system also manages the transactions record.

1.3 Objectives:

- To allow users to place order of multiple printable items online.
- To generate Daily reports.
- To Manage different categories of printing.
- To provide user-friendly web-based interface.
- To make a safe and secure accounts for users.

1.4 Scope:

PrintX – Digital Printing System is a web-based system that allows users to place orders from their homes and shop owners of printing shop to effectively manage records of orders and stocks of the shop. These orders can be printed anytime with all associated information.

CHAPTER 2

SURVEY

So, we conducted survey in our city visited couple of local printing shops including our own university photocopier. In our survey we found out that most of the shop owners didn't had any idea that this kind of product can be possible and can help them in their day to day tasks and save their and customer's time.

How far is your business extended?

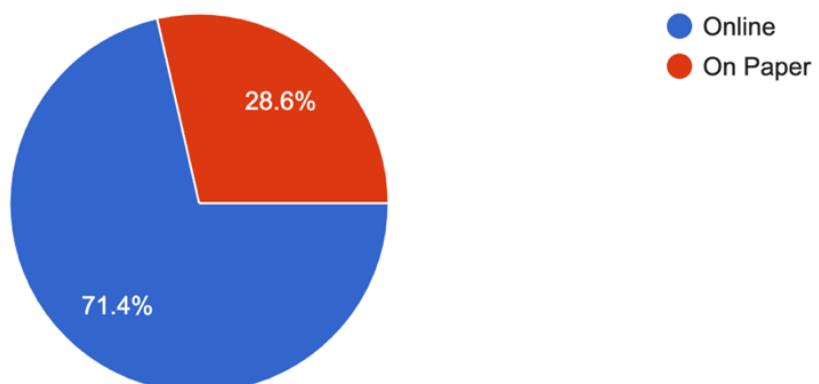
7 responses



Figures 2.1: How far is your business extended?

Which way you prefer Online Record registering or on a paper?

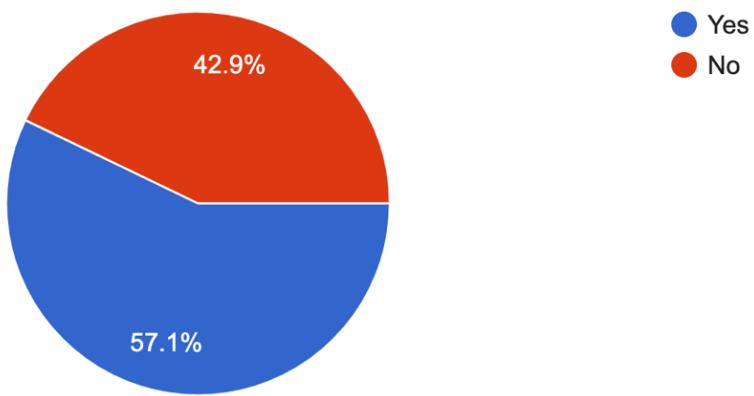
7 responses



Figures 2.2: Which way you prefer Online Record registration or on a paper?

Do you use any application or website for your records?

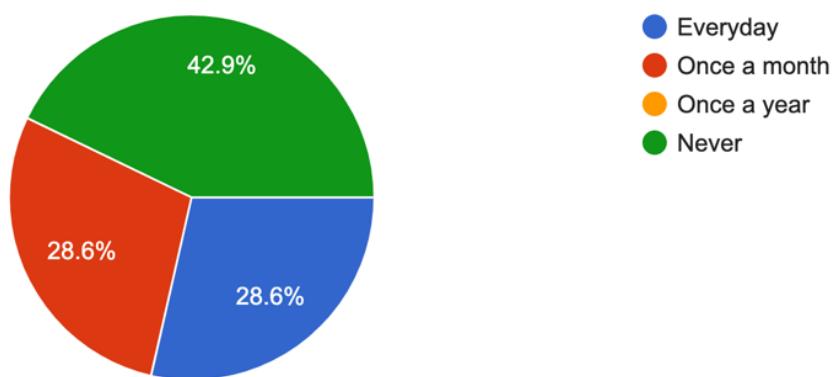
7 responses



Figures 2.3: Do you use any application or website for your record?

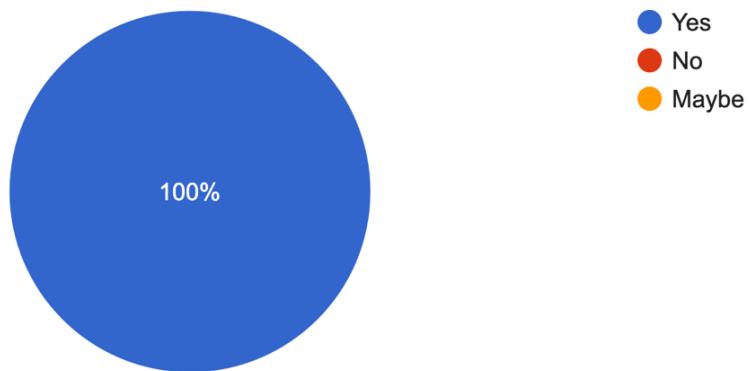
How often you use a Website or an App to keep you records?

7 responses



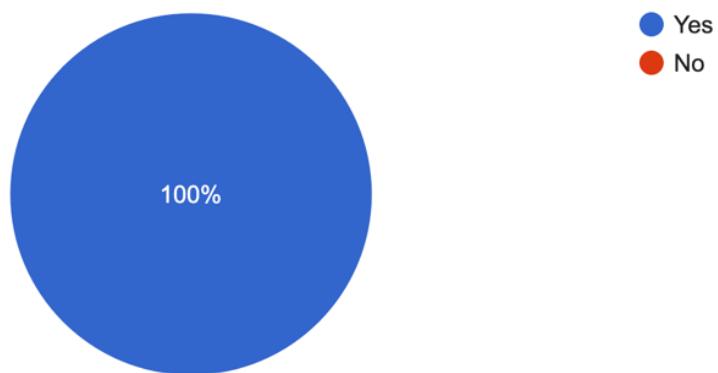
Figures 2.4: How often you use a Website or an App to keep your records?

Developing a web based Photocopy & Printing System will be more beneficial for you?
7 responses



Figures 2.5: Developing a web-based Photocopy & Printing System will be more beneficial for you?

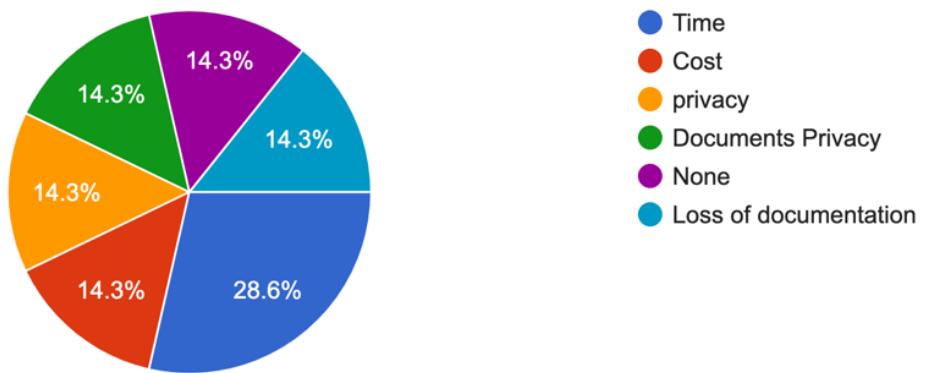
This system will save more time & money of a Photocopy & Printing shop.
7 responses



Figures 2.6: This system will save more time & money of a Photocopy & Printing shop.

What one thing is stopping you from shifting to paper to online?

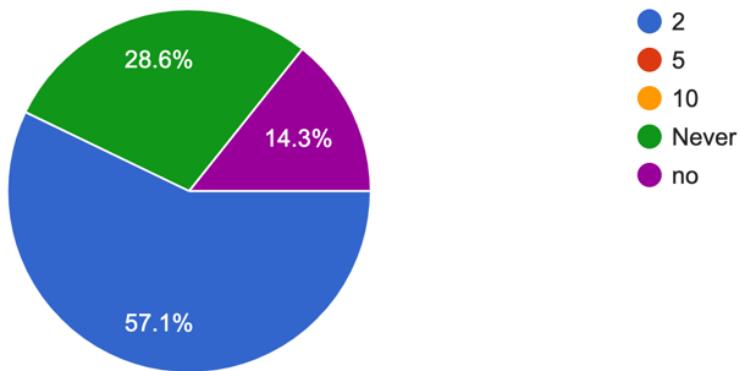
7 responses



Figures 2.7: What one thing is stopping you from shifting to paper to online?

How often you lose your records in a year?

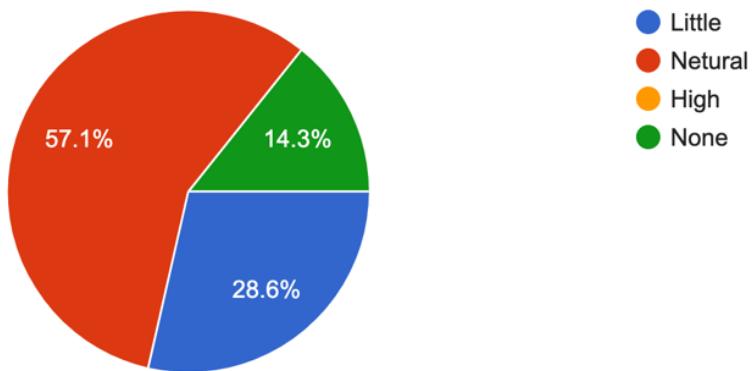
7 responses



Figures 2.8: How often you lose your records in a year?

Are you afraid of losing your documents?

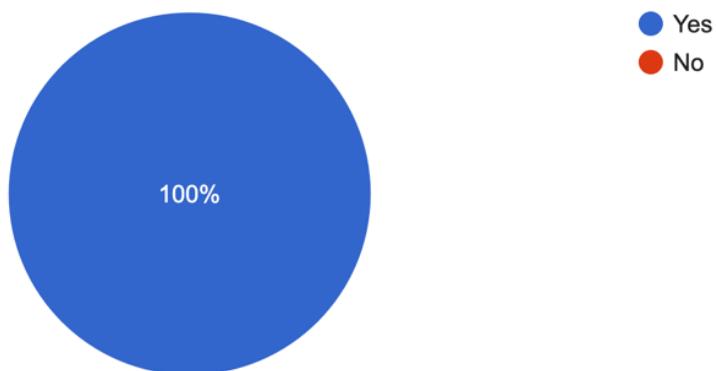
7 responses



Figures 2.9: Are you afraid of losing you documents?

Would you like to access your records anywhere on device?

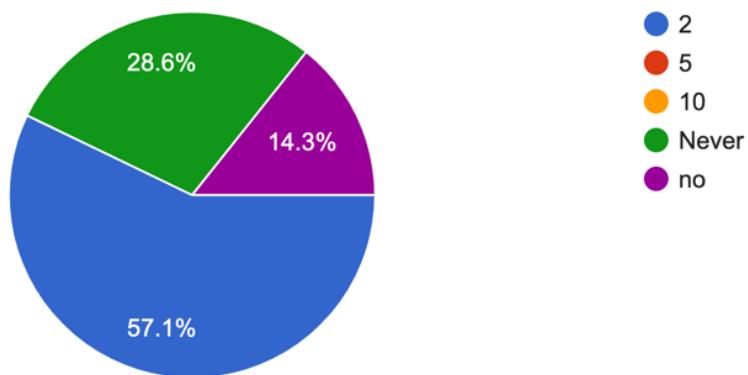
7 responses



Figures 2.10: Would you like to access your records anywhere on device?

How often you lose your records in a year?

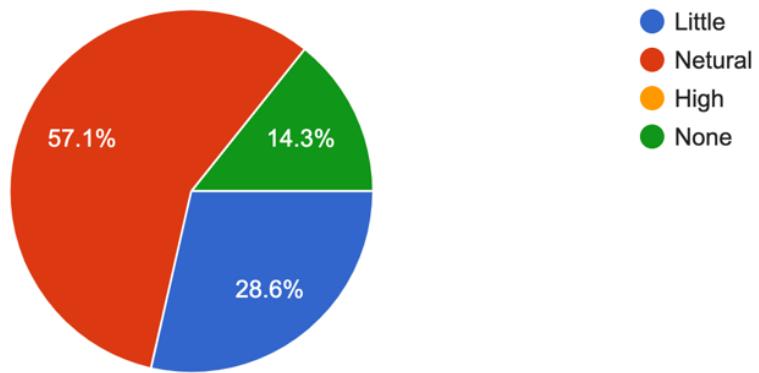
7 responses



Figures 2.11: How often you lose your records in a year?

Are you afraid of losing your documents?

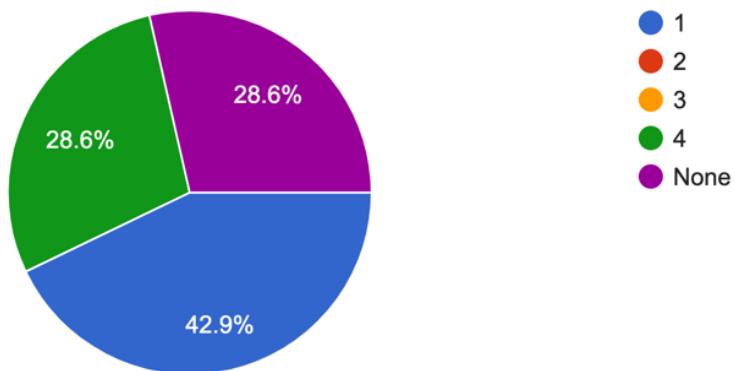
7 responses



Figures 2.12: Are you afraid of losing your documents?

How many employees have access to the records?

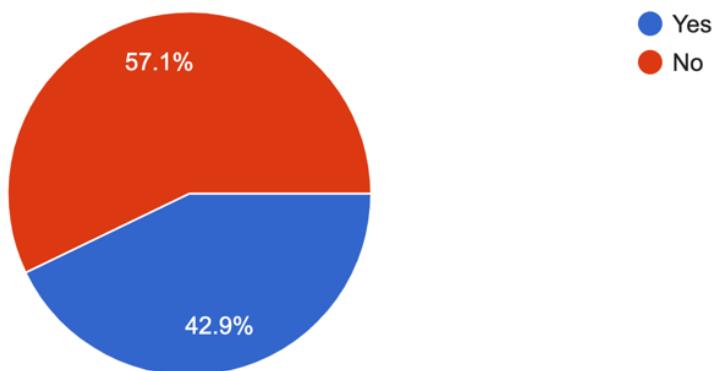
7 responses



Figures 2.13: How many employees have access to the records?

Would you like to pay for a service to keep or maintain your records online?

7 responses



Figures 2.14: Would you like to pay for service to keep or maintain your records online?

CHAPTER 3

SOFTWARE REQUIREMENTS SPECIFICATION

3.1 Language:

PHP - Hypertext Preprocessor:

PHP is an open-source server-side scripting language that many developers use for web development. It is also a general-purpose language that you can use to make lots of projects, including Graphical User Interfaces (GUIs).

JAVASCRIPT:

JavaScript is used by programmers across the world to create dynamic and interactive web content like applications and browsers. But JavaScript is also used beyond the Web in software, servers and embedded hardware controls.

3.2 Tools and Technologies:

XAMPP - X-operating system, Apache, MySQL, PHP, Perl:

It is basically local host or a local server. This local server works on your own desktop or laptop computer. The use of XAMPP is to test the clients or your website before uploading it to the remote web server. This XAMPP server software gives you a suitable environment for testing MYSQL, PHP, Apache, and Perl projects on the local computer.

VS - Visual Studio Code:

Visual Studio Code is a streamlined code editor with support for development operations like debugging, task running, and version control. It aims to provide just the tools a developer needs for a quick code-build-debug cycle and leaves more complex workflows to fuller featured IDEs. Visual Studio Code has support for many languages, including Python, Java, C++, JavaScript, and more.

HTML - Hypertext Markup Language:

HTML (Hyper-Text Markup Language) is the code that is used to structure a web page and its content. And it is Structuring web pages. With tags and elements, we can define the headings, paragraphs, and other contents of a web page.

CSS - Cascading Style Sheet:

CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers. CSS is independent of HTML and can be used with any XML-based markup language.

MySQL:

A relational database management system based on SQL – Structured Query Language. The application is used for a wide range of purposes, including data warehousing, e-commerce, and logging applications. The most common use for MySQL however, is for the purpose of a web database.

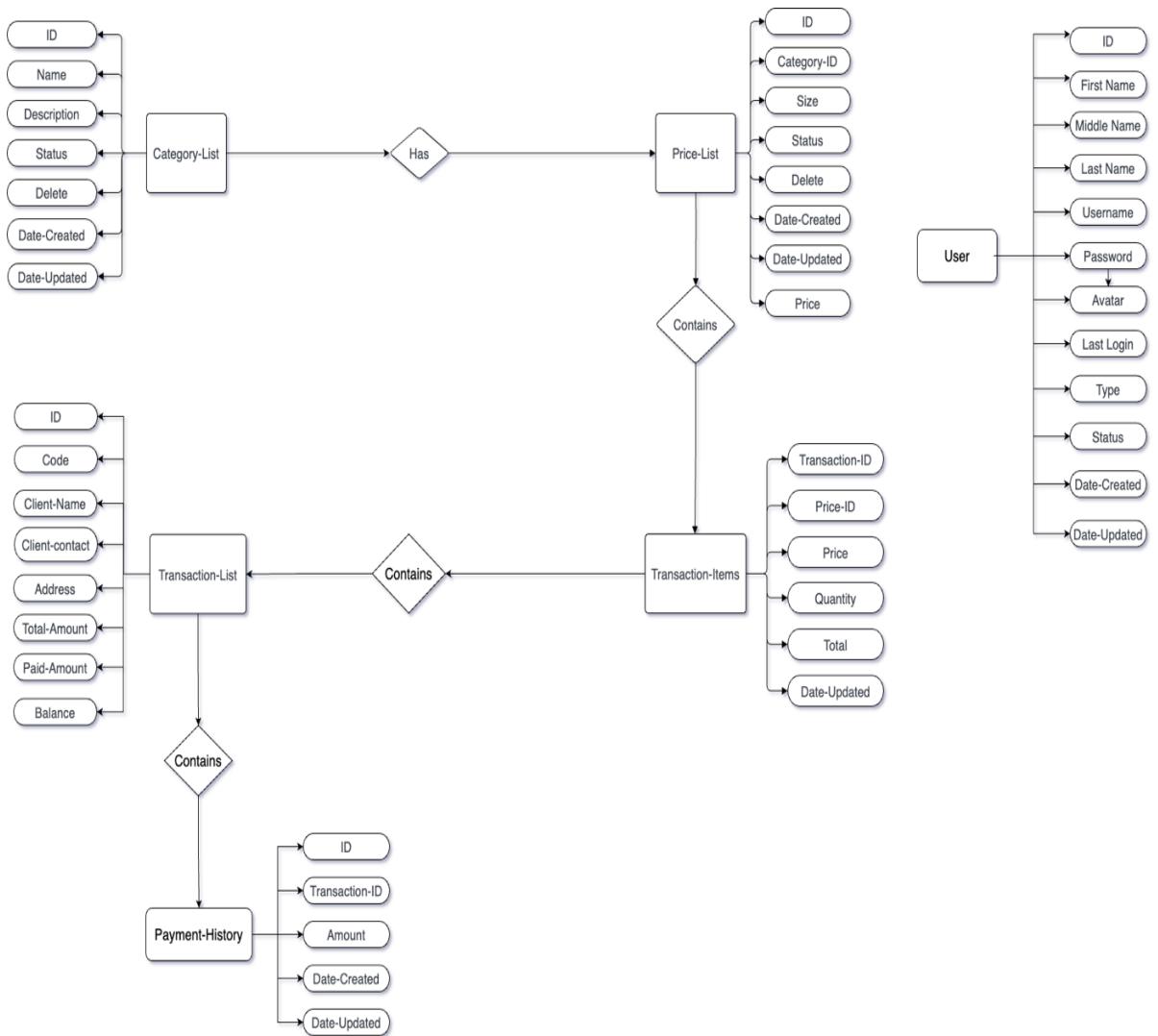


Figure 3.1: ER-Diagram

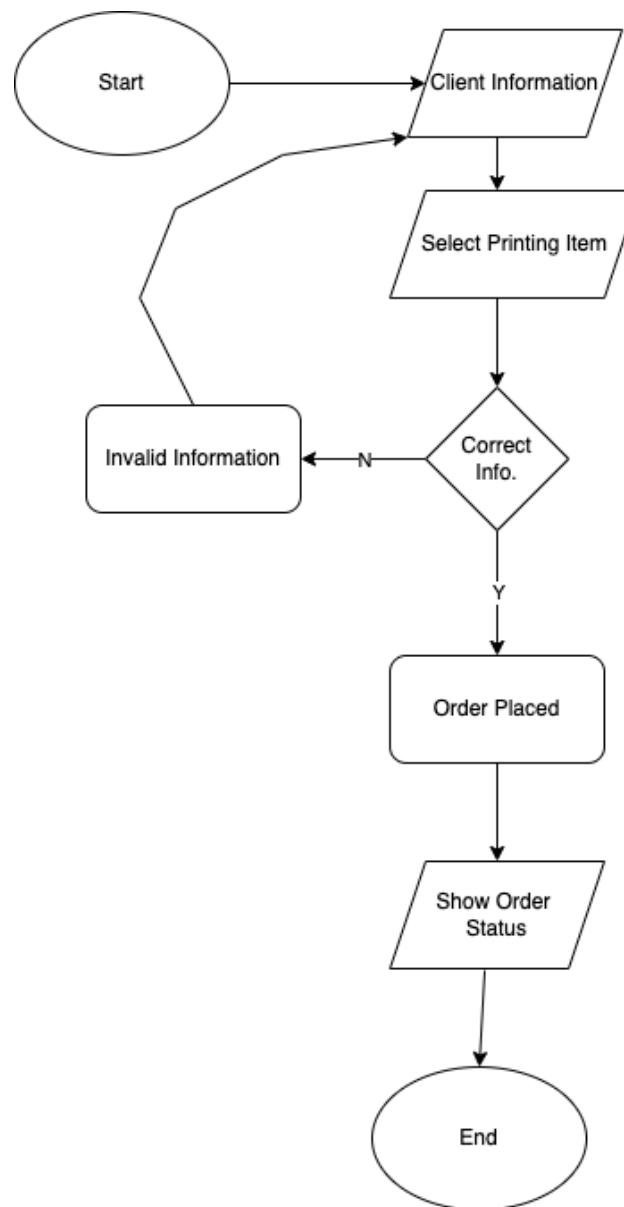


Figure 3.2 Flow Diagram of User

3.3 Database Design:

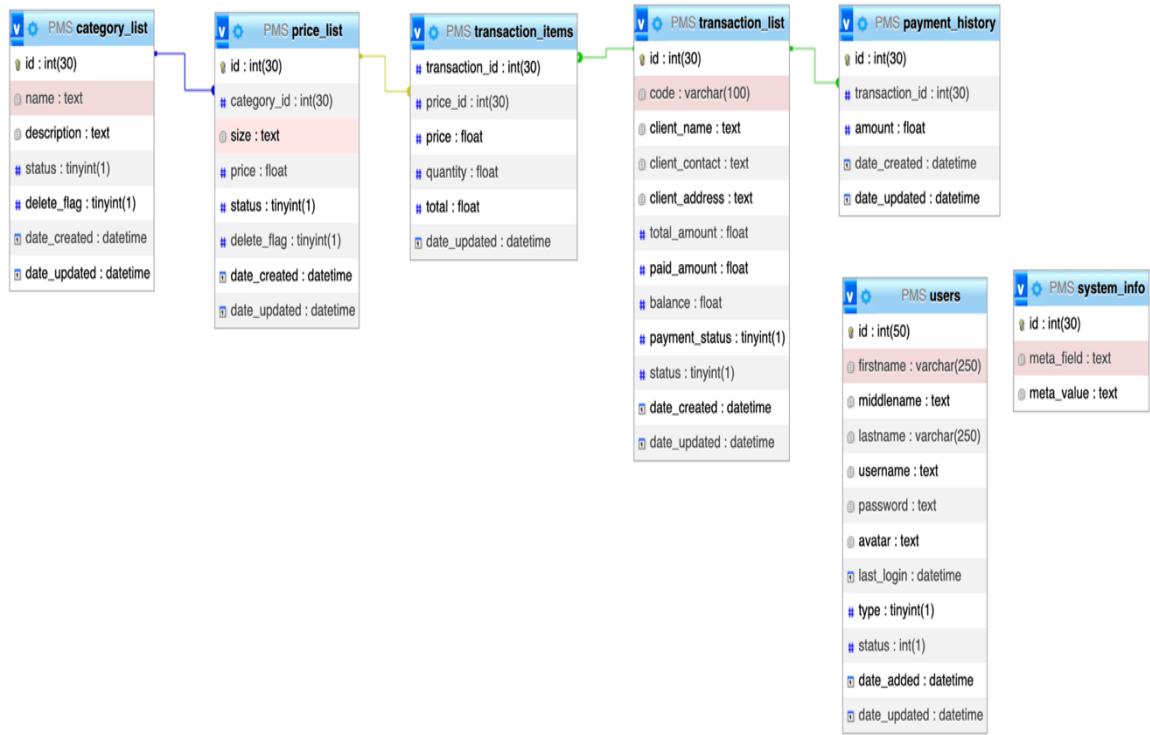


Figure 3.3 Relational-Diagram

CHAPTER 4

SNAPSHOTS

The snapshot chapter in this project thesis presents snapshots or overview of our project, this chapter aims to provide a clear graphical and concise summary of our project, and this chapter should provide enough information for readers to understand the context, scope, and significance of our project.



Figure 4.1 Login Page

Here Employer or employees can login.

A screenshot of the 'Place Your Order' section of the digital printing manager. The page is divided into two main sections: 'Client Information' and 'Printing Information'. Under 'Client Information', there are fields for 'Name' (Guest) and 'Contact #' (N/A). Under 'Address', there is a single field containing 'N/A'. In the 'Printing Information' section, there is a table with columns 'Item', 'Price', 'Qty', and 'Total'. The table has a single row with the total value set to '0'. At the bottom right of the form, there are 'Place Order' and 'Cancel' buttons. The footer of the page includes copyright information ('Copyright © 2022. All rights reserved.') and a link to the developer ('PrinteX (by: Sunny Moiz Saad)').

Figure 4.2 Place Your Order

Here User will fill out this form and place their order

Place Your Order

Client Information

Name	Contact #
Moiz	03421234234

Address

Hirabad, City Gate

Printing Information

Item	Price	Qty	Total
Shirt - 8.5 x 14.5 Front 4 x 6 back	220.00	1	220.00
Total			220.00

Please Select Item Here Upload a file: Choose file moiz.jpeg + Add Item

Place Order **Cancel**

Figure 4.3 Filled Out Form

That's how filled out form will look like.

Your Order Details

Transaction Code
202212-00002

Payment Status
Unpaid On-Progress

Client Information

Name	Contact #
Moiz	03421234234

Address

Hirabad, City Gate

Items

Item	Price	Qty	Total
Shirt - 8.5 x 14.5 Front 4 x 6 back	220.00	1	220.00
Total			220.00

Payment History

Date/Time	Amount	Action
Total	0.00	
Balance	0.00	

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Figure 4.4 Client Order Details

Here a user can see their order details with order status.

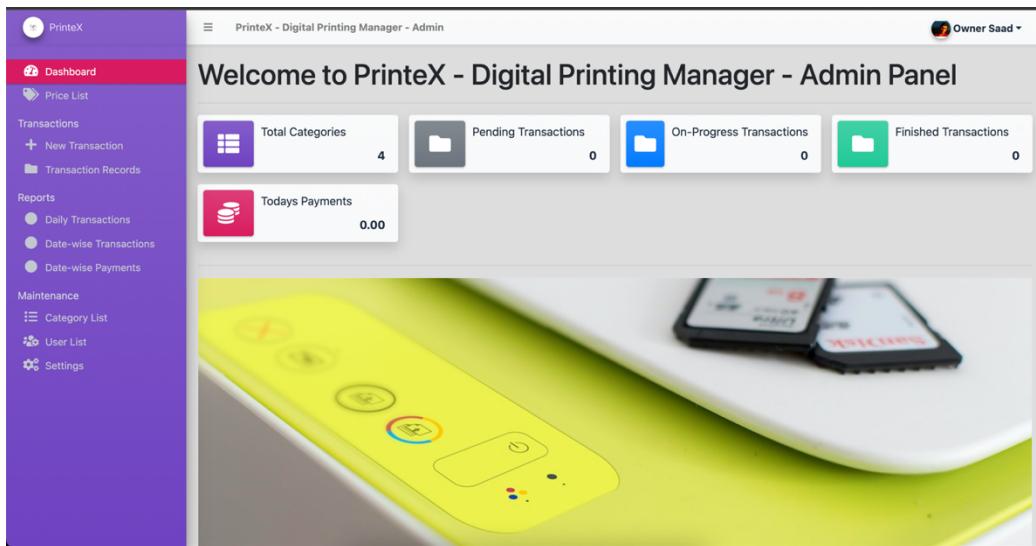


Figure 4.5 Dashboard (owner)

Here owner can interact with website see total categories, pending transactions, on-progress transactions, finish transactions and total payments.

Figure 4.6 Owner Profile Settings

In profile setting user can edit personal details and password.

#	Date Created	Category	Size	Price	Status	Action
1	2022-01-26 09:52	Documents	A3 (297 x 420 mm)	6.00	Active	Action ▾
2	2022-01-26 09:51	Documents	A4 (210 x 297 mm)	5.00	Inactive	Action ▾
3	2022-01-26 09:50	Documents	Legal (8.5 X 14 in)	5.00	Active	Action ▾
4	2022-01-26 09:51	Documents	Short (8.5 x 10.5 in)	3.00	Active	Action ▾
5	2022-01-26 09:54	Documents	A0 (84.1 x 118.9...)	50.00	Active	Action ▾
6	2022-01-26 10:19	Shirt	8.5 x 14.5 Front 4 ...	220.00	Inactive	Action ▾
7	2022-01-26 10:18	Shirt	A4 Front and Back	250.00	Active	Action ▾
8	2022-01-26 10:19	Shirt	A4 Front Only	180.00	Active	Action ▾
9	2022-01-26 09:56	Tarpaulin	4 x 2 ft	250.00	Active	Action ▾
10	2022-01-26 09:55	Tarpaulin	2 x 3 ft.	200.00	Active	Action ▾

Figure 4.7 Price List

You can see what items a shop selling and which items are available and their prices, with “Action” button we can view item details, delete item and edit item details.

Add New Price

Category	6.00	Active
Shirt	5.00	Inactive
Size	5.00	Active
L	3.00	Active
Price	50.00	Active
900	220.00	Inactive
Status	250.00	Active
Active	180.00	Active
250.00	250.00	Active
200.00	200.00	Active

Figure 4.8 Adding new item to price list

Adding new item to the price list, each new item should have to be chosen from available categories after that item size, price and availability.

Figure 4.9 New Transaction

In new transaction employees or owner will put information of clients and which item they are purchasing.

Figure 4.10 Transaction Details

Here we can see transaction code, payment status if its paid, partial paid or unpaid. Status of process if its in-process, done or pending can be change here. With client details and their order details.

Printex		Printex - Digital Printing Manager - Admin						
		List of Transactions						+ Add New Transaction
		Show 10 entries						Search:
#	Date Created	Transaction Code	Client	Payment Status	Status	Action		
1	2022-11-15 13:37	202211-00001	Sunny	Partially Paid	Pending	View		
2	2022-11-15 16:26	202211-00003	Guest	Unpaid	Pending	View		
3	2022-11-15 18:16	202211-00004	1	Paid	On-Progress	View		
4	2022-11-15 15:27	202211-00002	Guest	Unpaid	Done	View		

Showing 1 to 4 of 4 entries

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Figure 4.11 Transaction Records

Transaction records contains list of total entered transaction and also can see whether its completed or not.

Printex		Printex - Digital Printing Manager - Admin												
		Daily Transaction Report						+ Owner Saad						
		Filter												
Date														
15/11/2022														
<input type="button" value="Filter"/> <input type="button" value="Print"/>														
Printex - Digital Printing Manager Daily Transactions Report November 15, 2022														
#	Date/Time	Transaction Code	Client	Total Amount	Status									
1	2022-11-15 13:37	202211-00001	Sunny	208.00	Pending									
2	2022-11-15 15:27	202211-00002	Guest	50.00	Done									
3	2022-11-15 16:26	202211-00003	Guest	180.00	Pending									
4	2022-11-15 18:16	202211-00004	1	55.00	On-Progress									

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Figure 4.12 Daily Transaction

In this section user filter transaction on specific date that can print, see total number of amount and transaction done in that day.

Date-wise Transaction Report

PrinteX - Digital Printing Manager
Date-wise Transaction Report
as of
November 08, 2022 - November 15, 2022

#	Date/Time	Transaction Code	Client	Total Amount	Status
1	2022-11-15 13:37	202211-00001	Sunny	208.00	Pending
2	2022-11-15 15:27	202211-00002	Guest	50.00	Done
3	2022-11-15 16:26	202211-00003	Guest	180.00	Pending
4	2022-11-15 18:16	202211-00004	1	55.00	On-Progress

Figure 4.13 Date-Wise Transaction

In this user can see transaction details between two dates and also can print that.

Date-wise Payment Report

PrinteX - Digital Printing Manager
Date-wise Payment Report
as of
November 08, 2022 - November 15, 2022

#	Date/Time	Transaction Code	Client	Paid Amount
1	2022-11-15 13:37	202211-00001	Sunny	0.00
2	2022-11-15 15:27	202211-00002	Guest	0.00
3	2022-11-15 16:26	202211-00003	Guest	0.00
4	2022-11-15 18:16	202211-00004	1	55.00
5	2022-11-15 18:24	202211-00001	Sunny	100.00

Figure 4.14 Date-Wise Payments

In this user can see payment details between two dates and also can print that.

PrinteX	
Dashboard	
Price List	
Transactions	
+ New Transaction	
Transaction Records	
Reports	
● Daily Transactions	
● Date-wise Transactions	
● Date-wise Payments	
Maintenance	
☰ Category List	
User List	
Settings	

List of Category						
Show 10 entries		Search:			+ Add New Category	
#	Date Created	Name	Description	Status	Action	Action
1	2022-01-26 09:22	Documents	This category is for the document...	Active	Action	Action
2	2022-01-26 09:22	Panaflex	This printing category is for the...	Inactive	Action	Action
3	2022-01-26 09:23	Shirt	This category is for all shirt...	Active	Action	Action

Showing 1 to 3 of 3 entries

Previous 1 Next

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Figure 4.15 Categories List

Owner can add, modify and delete categories from here.

PrinteX	
Dashboard	
Price List	
Transactions	
+ New Transaction	
Transaction Records	
Reports	
● Daily Transactions	
● Date-wise Transactions	
● Date-wise Payments	
Maintenance	
☰ Category List	
User List	
Settings	

List of System Users						
Show 10 entries		Search:			+ Create New	
#	Avatar	Name	Username	User Type	Action	Action
1		Moiz Korai	employee1	Staff	Action	Action
2		Sunny Sagar	employee2	Staff	Action	Action

Showing 1 to 2 of 2 entries

Previous 1 Next

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Figure 4.16 User List

Shop owner can add multiple new employees or admin profiles and also can see how many users are.

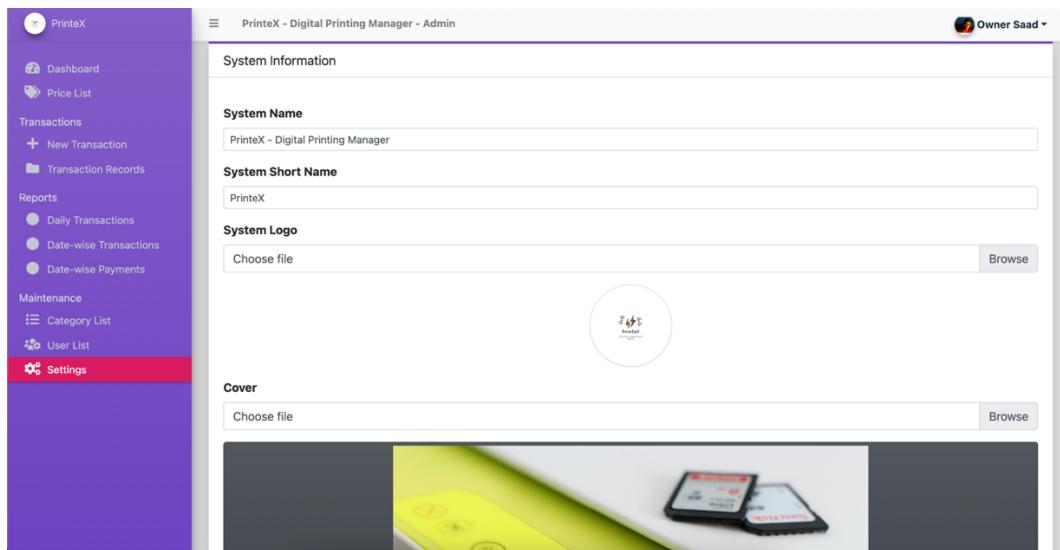


Figure 4.17 Settings

Owner can update system name, logo and cover of the system.

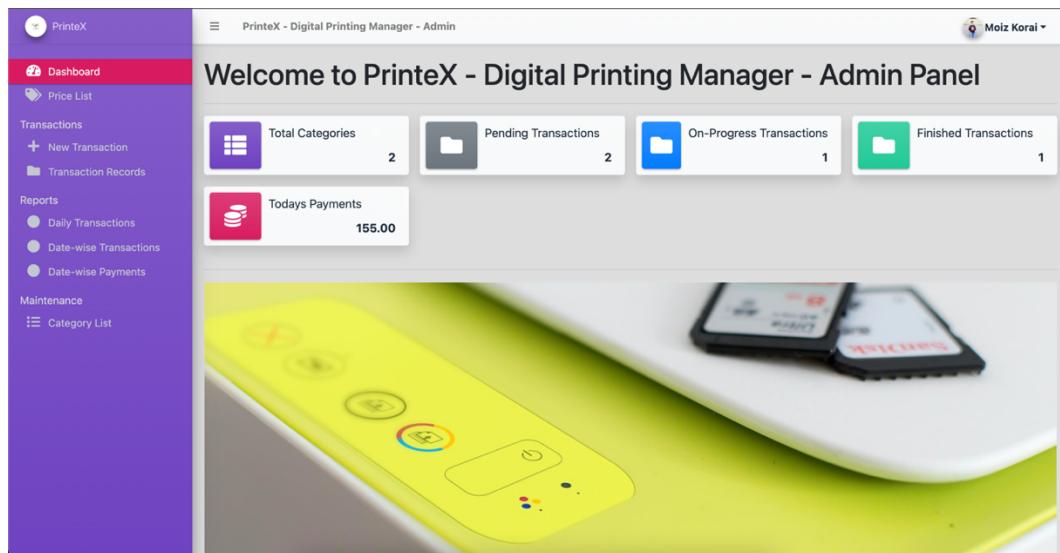


Figure 4.18 Dashboard(employees)

Employees can do all the same work as owner but cannot modify or delete categories, system settings and user settings.

CHAPTER 5

CONCLUSION

PrinteX is providing a way to the users to place order online and the owners of printing shops to maintain their order of different kinds of printing. PrinteX has resolved going on shops and wait for hours to get your item and the paper-based registrations of records and helps printing shops with numbers of employees to maintain their daily transactions and records of inventory on web, also with security of not losing the records.