

A
Summer Internship Report
On
"Laundry Management System"

(IT346 – Summer Internship - I)

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Under the Supervision of
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**SMT. KUNDANBEN DINSHA PATEL DEPARTMENT OF
INFORMATION TECHNOLOGY**

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August, 2023

CERTIFICATE

This is to certify that the report entitled “**Laundry Management System**” is a bonafied work carried out by **Shrey Patel (21IT118)** under the guidance and supervision of **Prof. Rajnik Katriya & Mr. Tilak Nikul Patel** for the subject **Summer Internship – I (IT346)** of 5th Semester of Bachelor of Technology in **Department of Information** at Chandubhai S. Patel Institute of Technology (CSPIT), Faculty of Technology & Engineering (FTE) – CHARUSAT, Gujarat.

To the best of my knowledge and belief, this work embodies the work of candidate herself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation, and language for being referred by the examiner(s).

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CANDIDATE'S DECLARATION

Laundry Management System

Declaration by Laundry Management System Team

We Shrey Patel, Harmeetsingh Kalda, Het Soni, Smit Panchal hereby declare that the project work titled Marketing Era is an original and independent work carried out by us as a part of our Information Technology in Kundanben Dinsha Patel Department of Information Technology at Charusat University.

We further declare that:

The project work has not been submitted earlier for any degree or diploma to this or any other institution. The project work has not been copied, plagiarized, or imitated from any other source.

The work of others used in this project report has been duly acknowledged and cited in the bibliography. The software used in the project work has been developed by our team or used with the proper license and authorization. The project work does not contain any material that infringes upon any intellectual property rights, personal rights, or rights of privacy of any individual, group or entity. We understand that any breach of the above-mentioned points will result in the cancellation of us project work and may invite further disciplinary action.

Thanks,

Shrey Patel (21IT118)

ABSTRACT

- The Laundry Management System is a comprehensive software solution designed to streamline and automate laundry operations in various settings, such as hotels, hospitals, laundromats, and residential complexes. This system aims to improve efficiency, reduce manual errors, and enhance customer satisfaction by providing an integrated platform for managing all aspects of laundry services.
- The Laundry Management System offers a user-friendly interface that enables staff to easily handle laundry requests, track inventory, monitor equipment status, and manage customer accounts. It consists of several modules that work cohesively to optimize the laundry process, ensuring smooth and organized operations.
- The project, “Laundry Management System” is intended to streamline the processing of school documents by students and the registrar’s office. The project designed and developed using PHP, MySQL, HTML/CSS, and JavaScript.

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CHAPTER-1: INTRODUCTION

1.1 PROJECT SUMMARY

The Laundry Management System is a comprehensive software solution designed to automate and streamline laundry operations in various settings, including hotels, hospitals, laundromats, and residential complexes. The main goal of this project is to enhance efficiency, reduce manual errors, and improve customer satisfaction by providing an integrated platform for managing all aspects of laundry services.

1.2 PURPOSE

- The primary purpose of the Laundry Management System is to enhance efficiency and productivity in laundry operations.
- The researchers specifically aim the following objectives:
 1. To eliminate the manual method of processing Laundry System.
 2. The system aims to improve customer satisfaction by providing a seamless and convenient laundry experience.
 3. Customers can easily place orders through multiple channels, receive timely updates on order status.
 4. To electronically streamline transactions between customers and the laundry service providers.
 5. To evaluate the system in terms of user acceptability, effectiveness, productivity, quality, and reliability.

1.3 SCOPE

- The scope of a laundry management system can vary depending on the specific needs and requirements of the laundry business.
- The system was developed in response to the growing demands of the laundry industry, aiming to streamline processes, improve order management, and provide valuable insights for business growth.
- Functionality for creating, tracking, and managing laundry orders, including pickup and delivery services.
- For laundry businesses that offer pickup and delivery services, the system should optimize routes and schedules to maximize efficiency.
- By using our website we should able to manage their laundry very easily and effectively for both customers and service provider.

1.4 TECHNOLOGY

The technology of a website refers to the underlying software, programming Languages, and tools used to create and maintain the website.

HTML/CSS (HTML 5/CSS3): These are the fundamental languages used to create the structure and Design of a website.

JavaScript (ECMAScript 2022): This is a programming language used to add interactivity and Dynamic behaviour to a website.

CHAPTER-2: REQUIREMENT STUDY

2.1) HARDWARE REQUIREMENT

CPU: The central processing unit (CPU) is responsible for executing instructions and processing data. The CPU requirements for a website depend on the complexity of the website and the expected traffic. A website with complex scripts or heavy database usage will require a more powerful CPU.

RAM: Random Access Memory (RAM) is used to store data and instructions for the CPU to access Quickly. The amount of RAM required depends on the size of the website and the expected traffic. A Larger website with higher traffic will require more RAM to handle the load.

Storage: Websites require storage space to store their data and files. The amount of storage required Depends on the size of the website and the amount of data it stores. For example, a website with a lot Of Images or videos will require more storage space.

Network: A fast and stable internet connection is necessary to ensure the website loads quickly and responds to user requests in a timely manner. The network requirements depend on the expected Traffic And the location of the server.

2.2) SOFTWARE REQUIREMENT

Web Server: A web server software such as Apache, Nginx, or IIS is required to host a website. The Choice of web server software depends on the operating system and the programming language used to Develop the website.

Operating System: The operating system (OS) on the server must be compatible with the web server Software and the programming languages used for the website. Common server operating systems Include Windows Server, Linux, and UNIX.

Database: If the website requires a database, a database management system such as MySQL must be installed on the server.

Programming Languages: Websites can be developed using a variety of programming languages such as HTML, CSS, JavaScript, PHP, and more. The programming languages used for a website depend on the website's requirements and the developer's preference

CHAPTER-3: SYSTEM REQUIREMENT STUDY

3.1) USER CHARACTERISTICS

There are various types of users that use our website for processing their documents such as--

- **Customers:** Customers are the primary users of the laundry management system. They may have varying levels of technical expertise, so the system should be intuitive and easy to use.
- **Administrators/Owners:** Administrators or business owners oversee the entire laundry operation. They need access to comprehensive data and tools to manage the business efficiently.
- **Laundry Staff:** Laundry staff are responsible for processing orders and handling laundry tasks. They may have varying levels of technical proficiency, so the system should be straightforward to navigate.

3.2) HARDWARE AND SOFTWARE

- The hardware and software requirements for a development environment and hosting environment can Vary depending on the specific needs of the project. Here are some general guidelines for the Minimum requirements:
- **Development Environment:**
 - Processor: Intel Core i5 or higher
 - RAM: 4GB or more
 - Hard Drive: 256GB SSD or more
 - Operating System: Windows 10 or more
 - Integrated Development Environment (IDE): Visual Studio Code
 - Database management system: MySQL
- **Hosting Environment:**
 - Processor: Dual-core CPU or higher
 - RAM: 4GB or more
 - Hard Drive: 256GB SSD or more
 - Operating System: Windows Server
 - Database management system: MySQL
 - Security software: Firewall, antivirus, and anti-malware software

3.3) PROJECT OVERVIEW

- The system was developed in response to the growing demands of the laundry industry, aiming to streamline processes, improve order management, and provide valuable insights for business growth.
- Here below attached photos of our website Laundry Management System which contains the flow and working of website:

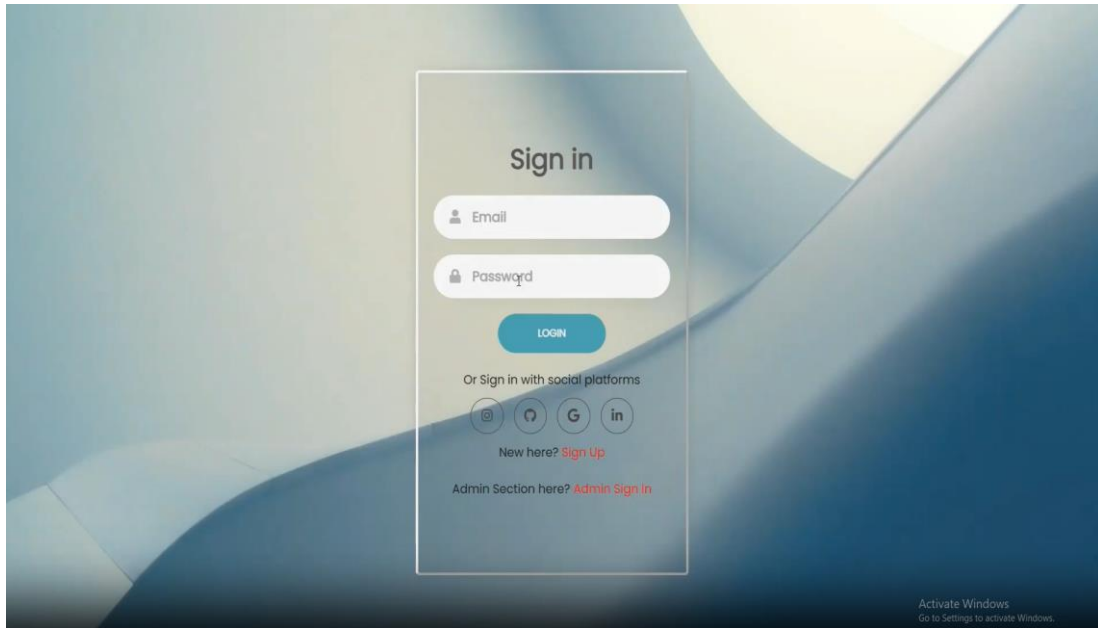


Fig 1.1 This is a Signing Page of our website so that user can make an order.

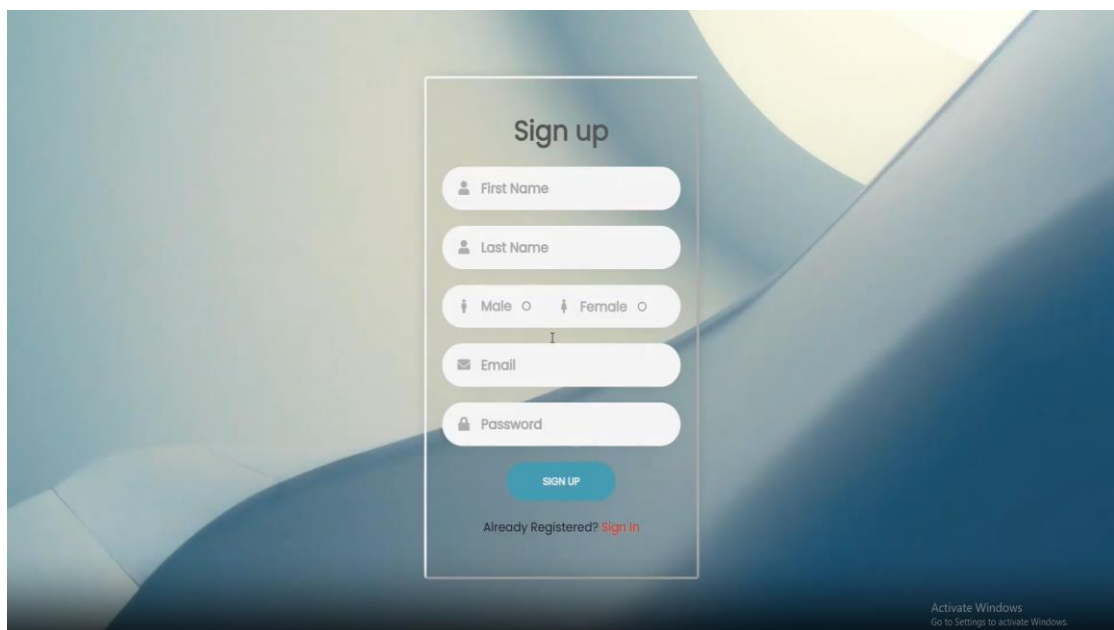


Fig 1.2 This is SignUp Page of our website so that new user can signup and make an order.



Fig 1.3 This is Our Home page of our website.

LMS Home **Laundry Request** Track Status About Logout

Laundry Requests

Personal Details

Full Name: Mobile Number: State:

City: Pin Code: Address:

Laundry Details

Laundry Type: Choose from these: Weight of Cloths:

Descriptions: Expected Issued Date: Expected Delivery Date:

localhost:8000/request

Fig 1.4 This page shows Laundry Requests for new customers who can make an order.

Details Of All the Washing Orders

Trackingid	Full Name	Mobile	State	City	Pin Code	Address	Laundry	Cloths	Weight	Descriptions	Issued	Delivery
1021	Ujjawal Singh	9608734736	Odisha	Bhubhaneshwar	752054	Kendriya Vihar ...	Cotton Cloth	9	12	Please be careful	2022-12-23	2022-12-31
1022	Ujjawal Singh	9608734736	Odisha	Bhubhaneshwar	752054	Kendriya Vihar ...	Cotton Cloth	9	12	Please be careful	2022-12-23	2022-12-31
1023	Ujjawal Singh	9608734736	Odisha	Bhubhaneshwar	752054	Kendriya Vihar ...	Cotton Cloth	9	12	Please be careful	2022-12-23	2022-12-31
1024	Ujjawal Singh	9608734736	Odisha	Bhubhaneshwar	752054	Kendriya Vihar ...	Cotton Cloth	9	12	Please be careful	2022-12-23	2022-12-31
1025	Ujjawal Singh	9608734736	Odisha	Bhubhaneshwar	752054	Kendriya Vihar ...	Cotton Cloth	9	12	Please be careful	2022-12-23	2022-12-31
1026	Ujjawal Singh	9608734736	Odisha	Bhubhaneshwar	752054	Kendriya Vihar ...	Cotton Cloth	9	12	Please be careful	2022-12-23	2022-12-31
1027	Ujjawal Singh	9608734736	Odisha	Bhubhaneshwar	752054	Kendriya Vihar ...	Cotton Cloth	9	12	Please be careful	2022-12-23	2022-12-31
1028	Ujjawal Singh	9608734736	Odisha	Bhubhaneshwar	752054	Kendriya Vihar ...	Cotton Cloth	9	12	Please be careful	2022-12-23	2022-12-31
1029	Ujjawal Singh	9608734736	Odisha	Bhubhaneshwar	752054	Kendriya Vihar ...	Cotton Cloth	9	12	Please be careful	2022-12-23	2022-12-31
1030	Ujjawal Singh	9608734736	Odisha	Bhubhaneshwar	752054	Kendriya Vihar ...	Cotton Cloth	9	12	Please be careful	2022-12-23	2022-12-31
1031	Ujjawal Singh	9608734736	Odisha	Bhubhaneshwar	752054	Kendriya Vihar ...	Cotton Cloth	9	12	Please be careful	2022-12-23	2022-12-31
1032	Ujjawal Singh	9608734736	Odisha	BHUBANESWAR	752054	Aadinath Apart...	Cotton	8	2	Please Be Careful	2022-12-31	2023-01-07
1033	Ujjawal Singh	9608734736	Odisha	BHUBANESWAR	752054	Aadinath Apart...	Cotton	8	2	Please Be Careful	2022-12-31	2023-01-07
1034	Ujjawal Singh	9608734736	Odisha	Bhubhaneshwar	752054	Kendriya Vihar ...	Cotton Cloth	6	8	Please be careful	2022-12-25	2023-01-04
1035	Ujjawal Singh	9608734736	Bihar	Sasaram	821115	Kendriya Vihar ...	Woolean Cloths	7	8	Ache se Bhiya ...	2022-12-23	2023-01-04

Fig 1.5 This page shows that details of all washing orders of customers.

CHAPTER-4: SYSTEM ANALYSIS

4.1) PROBLEM AND WEAKNESS OF CURRENT SYSTEM

Our website does not provide the feature that can tell you whether the email of the user is valid or not while signing up with our website.

4.2) DATA MODELLING

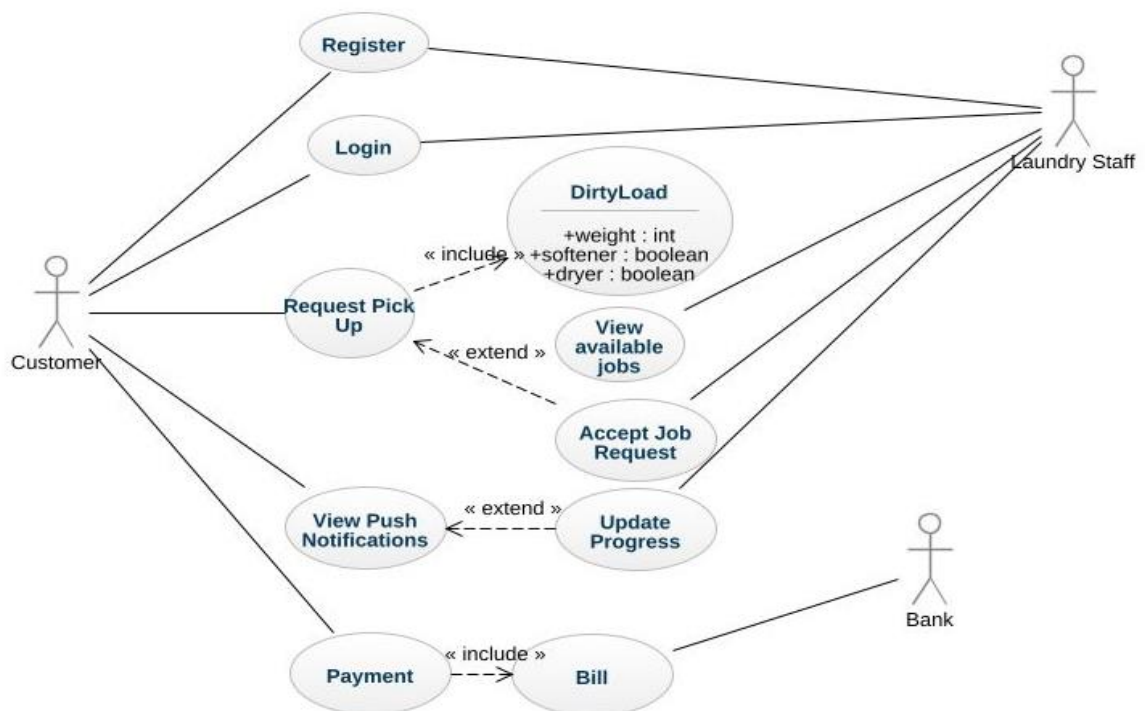


Fig 4.2.1 Use case diagram

Fig 4.2.1 displays the use case diagram of our website which shows how website would be look alike.

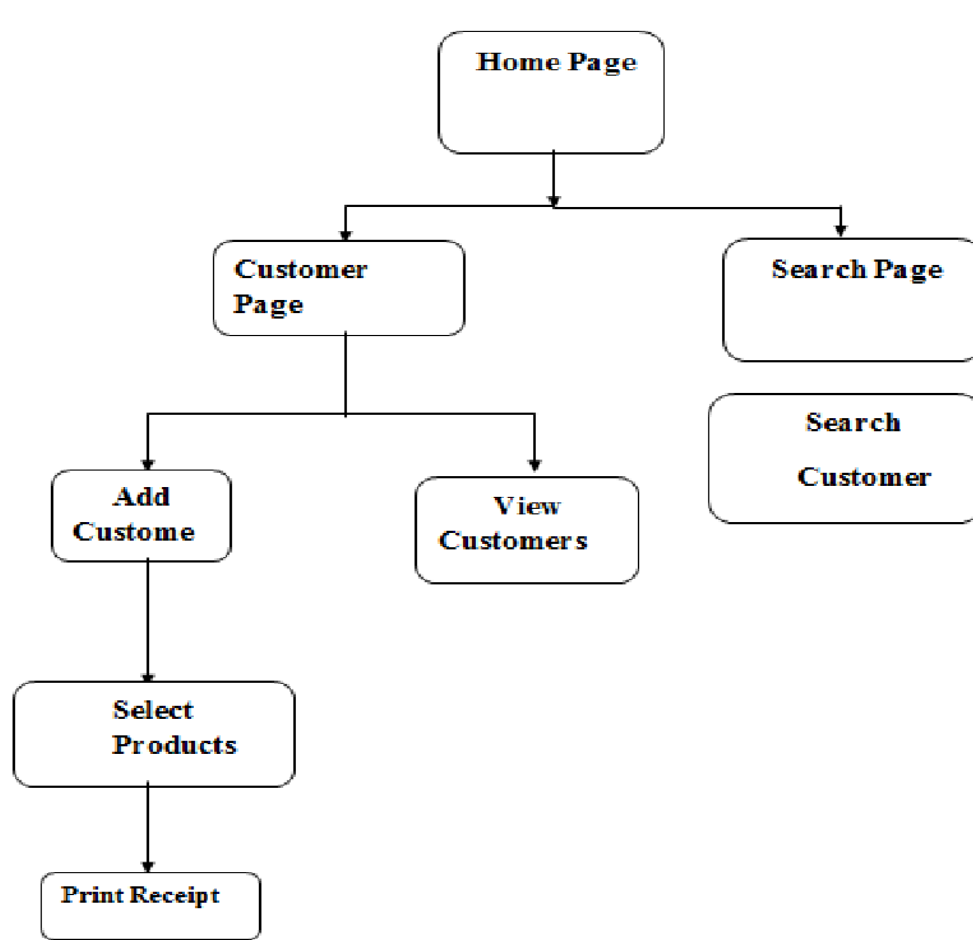


Fig 4.2.2 Flow diagram

Fig 4.2.2 showcases the flow of our website which include how website is going to be show front of user.

CHAPTER-5: SYSTEM DESIGN

5.1) DATABASE DESIGN/ DATA STRUCTURE DESIGN

- This website Laundry Management System includes database design called onlineschooldocument_db for implementing the document processing management for school and college students and faculty members.
- One of the most required tables for database design is given above in the list of tables content.
- Here below is attached the whole database design of website which include all various tables, their properties and relationship among them

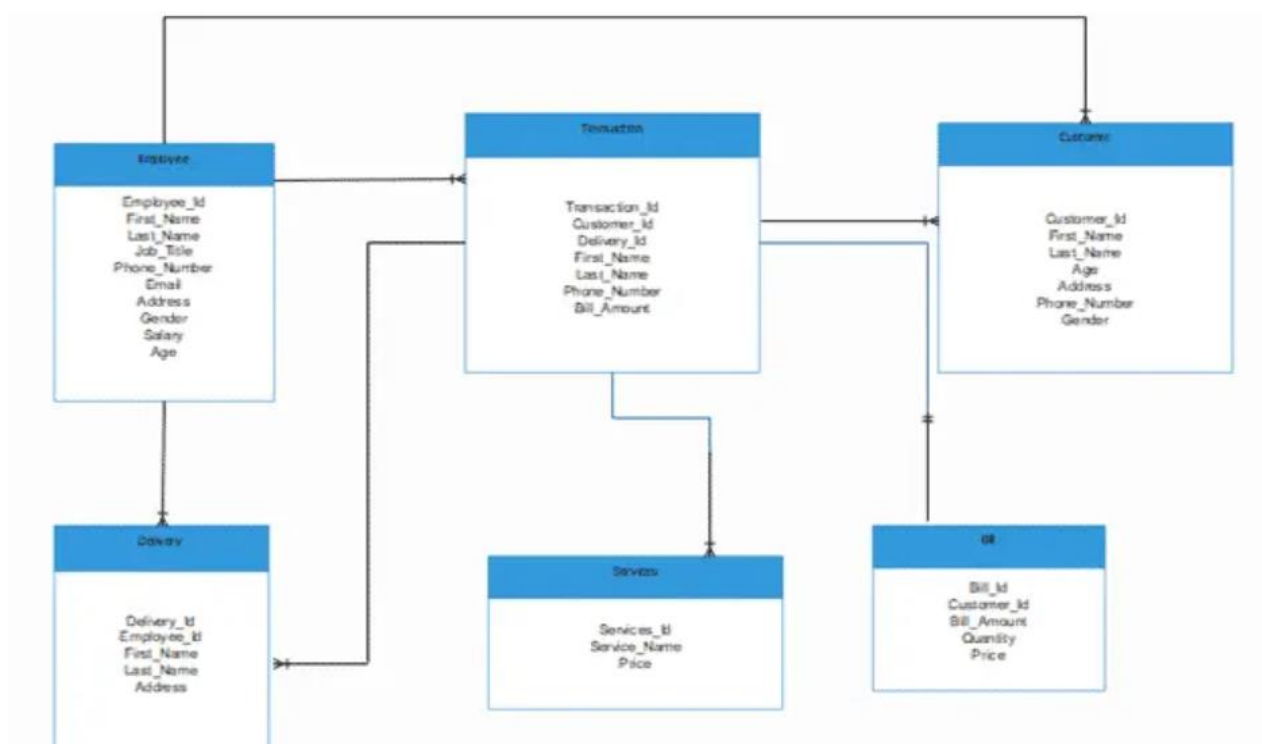


Fig 5.1.1 Mapping of E-R Diagram into tables

5.2) RELATIONS REQUIRED FOR DATABASE

Field Name	Data Type
Customer_Id	int (7)
First_Name	varchar(30)
Last_Name	varchar(50)
Age	int(2)
Address	text
Phone_number	varchar(11)
Gender	varchar(10)

Table 1.1 Customer Table

Field Name	Data Type
Delivery_Id	int (11)
Employee_Id	int (11)
First_Name	varchar (30)
Last_Name	Varchar(30)
Address	text

Table 1.2 Delivery Table

Field Name	Data Type
Transaction_Id	int (11)
Customer_Id	int(10)
Delivery_Id	int(10)
First_Name	varchar (30)
Last_Name	varchar (30)
Phone_number	varchar (30)
Bill_Amount	int (30)

Table 1.3 Transaction Table

Field Name	Data Type
Bill_Id	int (11)
Customer_Id	int (11)
Bill_Amount	int (11)
Quantity	varchar (255)
Price	int (11)

Table 1.4 Billing Table

Field Name	Data Type
Employee_Id	int (11)
First_Name	varchar (30)
Last_Name	varchar (30)
Job_Title	varchar (30)
Phone_Number	varchar (30)
Email	varchar (30)
Address	text
Gender	Varchar(10)
Salary	int (11)
Age	int (11)

Table 1.5 Employees Table

Field Name	Data Type
Service_Id	int(7)
Service_Name	varchar(30)
Price	int(10)

Table 1.6 Services Table

CONCLUSION:

- This system is made to cater the needs of customer that is why I come up with this pick-up and delivery services to give more efficiency and more convenient to the easy life style of the customer.
- By automating manual processes, streamlining operations, and providing valuable insights, the LMS transforms the way laundry services are managed, resulting in increased productivity and improved customer experience.
- Our team develop the project and present it to the target end-users. The study result showed that the developed system met the needs and requirements of the intended users such as customers and laundry service providers.
- Order processing becomes quicker and more accurate, reducing delays and customer complaints. The integration of various functionalities, such as inventory tracking, financial reporting, and customer communication, fosters seamless operations and a more cohesive workflow.

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