A
Summer Internship Report On
"Swimming Pool Easy Administration System"

(CE346 – Summer Internship - I)

Prepared by

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Under the Supervision of
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Submitted to

Charotar University of Science & Technology (CHARUSAT) for the Partial Fulfillment of the Requirements for the Degree of Bachelor of Technology (B.Tech.) for Semester 7 & 5

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U & P U. PATEL DEPARTMENT OF COMPUTER ENGINEERING
(NBA Accredited)
Chandubhai S. Patel Institute of Technology (CSPIT)
Faculty of Technology & Engineering (FTE),
CHARUSAT At: Changa, Dist: Anand, Pin: 388421.
2020

CERTIFICATE

This is to certify that the report entitled "**Swimming Pool Easy Administration System**" is a bonafied work carried out by **Nimeshkumar Italiya (17CE036)** under the guidance and supervision of **Dr. Ritesh Patel** for the **Summer Internship – II (CE446)** of 7th Semester of Bachelor of Technology in **Computer Engineering** at Chandubhai S. Patel Institute of Technology (CSPIT), Faculty of Technology & Engineering (FTE) – CHARUSAT, Gujarat.

We wish him good luck for his bright future.

Under the supervision of,

21.07.2020

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This is to certify that the report entitled "**Swimming Pool Easy Administration System**" is a bonafied work carried out by **Pruthvirajsinh Vaghela (18CE133)** under the guidance and supervision of **Dr. Ritesh Patel** for the **Summer Internship – I (CE346)** of 5th Semester of Bachelor of Technology in **Computer Engineering** at Chandubhai S. Patel Institute of Technology (CSPIT), Faculty of Technology & Engineering (FTE) – CHARUSAT, Gujarat.

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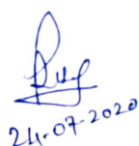At: Changa, Ta. Petlad, Dist. Anand, Pin: 388421. Gujarat.

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This is to certify that the report entitled "**Swimming Pool Easy Administration System**" is a bonafied work carried out by **Dhruvil Shah(D19CE160)** under the guidance and supervision of **Dr. Ritesh Patel** for the **Summer Internship – I (CE346)** of 5th Semester of Bachelor of Technology in **Computer Engineering** at Chandubhai S. Patel Institute of Technology (CSPIT), Faculty of Technology & Engineering (FTE) – CHARUSAT, Gujarat.

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ABSTRACT

The principal objective of this internship is to learn and explore new things about the technology or tools that we have learnt during our academics. During my six-week internship, we learnt how to interact with the client, how to do documentation, and most importantly how to communicate with co-workers. This internship expanded my thinking in a very creative manner. We come to know about many new tools that made my work easier. We were assigned a project work named 'Swimming Pool Easy Administration System'. It is a website whose function is basically to maintain the data in database and generate the PDFs of the reports. Admin need to sign up the system. Authentication of the admin is must in order to login. Our role in this project was a Frontend and Backend Developer. My daily tasks were to design GUI or pages of the website as per the task allocated by the internal guide. After the completion of the website, we were given a role of Quality Analysis, to test various test cases in the website.

ACKNOWLEDGEMENT

COMPANY DESCRIPTION

Company name: VTC SWIMMING POOL

Type of business structure: Private

Ownership/management team: Private Trust

Location:

Company history: The VTC SWIMMING POOL, is an independent, start-up, based in the Vidhyanagar- state- of- Gujarat, India.

U & P U Patel Department of
Computer Engineering

CHAPTER 1: INTRODUCTION

1.1 PURPOSE

The main purpose of doing internship was to gain some more & deep knowledge in the field of web development & to sharpen my skills to next level. We got to know about many new things that we were unaware about. We learnt new tools that was very helpful to complete my task in less time. We learnt how to interact with the people in company's environment.

1.2 OBJECTIVE

The objectives of internship program are as follows:

- To gain industry working style and knowledge.
- To build the strength, teamwork spirit and self-confidence in students' life.
- Provides the opportunity to learn real-life work skills and etiquette hands-on at a real job.
- To Gain valuable skills, knowledge and experience in a field to allow us to make a career transition.
- Explore a career interest, develop skills, and gain experience.
- To help us to apply the theory and skills which we have learned in the classroom setting, and for our personal development.
- We will be able instilled with good moral values such as responsibility, commitment and trustworthy during their training.

1.3 SELECTION OF ORGANIZATION

As a student, we are supposed to do a summer internship. In Internship we are given a definition of Swimming Pool Automation System. The live project definition was ready and so we conclude to intern the project.

1.3.1 Contact Information

Location: VTC Swimming Pool,
Near Old Water Tank,
Vallabh Vidhyanagar,
Anand-388120

Phone: +91

Email

CHAPTER 2: PROJECT DESCRIPTION

2.1 OVERVIEW

Swimming pool auto system is developed to maintain the customers and member details or information. User can be Add, Update and Delete the customers details in various forms, Categories and reports. User can search the data or information of any customer with the only mobile number or name or form no or receipt no etc. User can generate reports of particular columns. User can download PDF files of all the reports.

2.2 PROBLEM STATEMENT

- Swimming pool owner wants at what time the customer enters and exit during his/her allocated batch.
- Swimming pool owner wants the list of customers who has entered the swimming pool before 5 minutes.
- Swimming pool owner wants the list of customers who has entered the swimming pool within 25 minutes of batch start.
- Swimming pool owner wants the list of customers who has entered the swimming pool before 25 minutes of batch start.
- Swimming pool owner wants the total available Cid and Free Cid so that they can allocate the Cid to the other customers.
- Swimming pool owner wants to generate PDF of all the receipt together of the customers with same form number.
- Swimming pool owner wants to print all the receipts of a group of customers in a single receipt.
- Swimming pool owner wants that maximum strength should be 135 and no entry will be there after that.
- Swimming pool owner wants that due date of pending payment should be displayed within the given time interval (i.e.; within 7 days or 10 days or 15 days etc.)
- Swimming pool owner wants exact calculation of the money i.e.; the total amount of fees and total discount given to the customers.

The Swimming Pool Auto System was developed in JAVA initially. The owner wants to update same system. So, we develop a system using PHP and MySQL. Because with PHP and MySQL we can have more security about the data and better management of the data using database.

To overcome the drawbacks of the existing system, the proposed system has been evolved. This project aims mainly for the forms, reports like category listing, customer listing, payments, forms listing, batch occupancy listing and batch in/out. The major problem is to download the forms and reports. So, we add a PDF option for the download of form, reports and receipt. We can download all receipts of customers with all the duration they have selected with their customer ID. The user can also download required columns only by selecting the column visibility option.

2.3 RESPONSIBILITIES ASSIGNED

Completing a whole website design requires certain responsibilities to be carried out. Some of the responsibilities assigned to us for completion of this project are as follow:

Sr No.		GUI/Report Name	GUI/REPORT	Developer Name
1	Forms			
2		New Form	GUI	Nimesh
3		Form Listing	Report	Nimesh
4	Category			
5		New Category	GUI	Nimesh
6		Category Listing	Report	Nimesh
7	Customer			
8		Customer Entry- Add	GUI	Dhruvil
9		Customer Entry- Search/Edit/Update	GUI	Dhruvil/ Nimesh
10		Customer Listing (LR)	Report	Nimesh
11		Customer Payment	GUI	Nimesh
12		Payment Receipt	Report	Nimesh
13		Payment Listing	Report	NImesh
14		Payment Report	Report	Nimesh
15		Available CID	Report	Pruthvi
16		Remove CID	GUI	Pruthvi
17				
18	Other Reports			
19		Current Batch Display	Report	Nimesh
20		Batch Timings (LR)	Report	Dhruvil
21		Batch Occupancy (LR)	Report	Dhruvil
22		Bathwise Customer IN/OUT Report	Report	Nimesh
23		payment Due	Report	Dhruvil
24		Occupancy Summary	Report	Pruthvi
25		Dashboard	GUI	Nimesh
26		Deaily Payment Transaction	Report	Nimesh
	Employee			
27		New Employee	GUI	Nimesh
28		Employee Listing	GUI	Nimesh
29		Employee In/Out Daily	Report	Nimesh
30		Employee In/Out Monthly	Report	Nimesh
31		Date wise	Report	Nimesh
	Extra			
32		login	GUI	Nimesh

33	Dashboard	GUI	Nimesh

2.3.1 Responsibility assigned

2.4 MOTIVATION

The main motto of the internship is to gain practical knowledge and to learn new skills and technology. The internship allows the student to make good communication skills and be familiar with the different industrial environment.

CHAPTER 3: SYSTEM ANALYSIS

3.1 INITIAL REQUIREMENT

Initial requirement was gather in the month of February which was disused by team lead in the month of May, 2020. Following were the final requirement.

1. Total batch hours: 6 to 7 am/ 7 to 8 am/8 to 9 am/4 to 5 pm/ 5 to 6 pm/6 to 7 pm/7 to 8 pm
2. Total Time period
   a. 1 month
   b. 3 months
   c. 6 months
   d. 1 year
   e. Special batch 2 month
   f. Special batch 3 month
   g. Special batch 4 month
3. Admission for swimmer with specified Time slot (Entry can be made possible by staff at the time of admission with date/Time slot/Time period)
4. Admission for learner with Specified Time slot (Entry can be made possible by staff at the time of admission with date/Time slot/Time period)
5. Thumb or any other finger entry
6. Correction facility to other finger entry
7. Entry and exit as per 7 tie slot daily
8. Beeper/Buzzer after completion of one hour
9. Maximum strength of 135 for time slot. No entry after that; however, staff is permitted to go up 150
10. Batch wise register formation
11. If required, we can take out the print even after 5 years
12. Entry is allowed any time during time slot within 25 minutes, but buzzer/Beeper needs to blow after specified time slot only.
13. 2 entry sensors + 2 exit sensors unit shall be installed
14. All required hardware's required for the interlock system
15. The complete system shall comprise of Design and engineering and supply of software and hardware's installation, testing, and commissioning of complete system at site, attending the trouble shooting, Providing to the staff members, free services for 1 year.

3.2 CORRECTED REQUIREMENT

Following were the corrected requirement from the organization.

1. Total batch hours: 6 to 7 am/ 7 to 8 am/8 to 9 am/4 to 5 pm/ 5 to 6 pm/6 to 7 pm/7 to 8 pm
2. Total Time period
   a. 1 month
   b. 3 month

      c. 6 month
      d. 1 year
      e. Special batch 2 month
      f. Special batch 3 month
      g. Special batch 4 month

3. Admission for swimmer with specified Time slot (Entry can be made possible by staff at the time of admission with date/Time slot/Time period)
    a. Status: Facility is delivered.

4. Admission for learner with Specified Time slot (Entry can be made possible by staff at the time of admission with date/Time slot/Time period)
    a. Status: Facility is delivered.

5. Thumb or any other finger entry
    a. Status: Facility is delivered. devices are installed and working perfectly. Data from sensors are available in Database.

6. Correction facility to other finger entry
    a. Status: Facility is delivered.

7. Maximum strength of 135 for time slot. No entry after that; however, staff is permitted to go up 150
    a. Status: Summary report which contain datewise & Batchwise current occupancy during all slots. By default, current date. Annex-5

8. If required, we can take out the print even after 5 years
    a. Status: Report should contain Date Rage (Should not go beyond current financial year because at every financial year Form no and receipt no is reset to zero) & Personwise, Detail & Summary Report. By default, current date should be in the rage. They do not require in terms of report, HTML report is sufficient.
    b. Summary Report as per Category wise & Non category as well.(Option should be provided)

9. 2 entry sensors + 2 exit sensors unit shall be installed
    a. Correction: As mentioned in point 8, no need to implement buzzer. However, Display should contain Separate provision to display such IN entries. Annex-1

10. All required hardware's required for the interlock system
    a. Status: USB camera and VGA card need to be purchased by VTC as per advise by CHARUSAT.

11. The complete system shall comprise of Design and engineering and supply of software and hardware's installation, testing, and commissioning of complete system at site, attending the trouble shooting, Providing to the staff members, free services for 1 year.

Various Reports required.

Fig 3.3.1 Annex 1

Fig 3.3.2 Annex 2

Fig 3.3.3 Annex 3

Annex-4

VTC Pool

Current Date and Time: February 23, 2020

List of Customers who are hiving Paymet Due in ___ Days.

Sr. no.	Customer Name	Payment Due Date	Last payement
1			
2			
3			

Fig 3.3.4 Annex 4

Annex-5

VTC Pool

Current Date and Time: February 23, 2020

Currnet Occypacy of batch <Dt Object: Default Current Date>

Sr. no.	Batch Time	Current Occupant	Total Capacity
1	6 to 7 am		
2	7 to 8 am		
3	8 to 9 am		
4	4 to 5 pm		
5	5 to 6 pm		
6	6 to 7 pm		
7	7 to 8 pm		

Fig 3.3.5 Annex 5

Annex-6

VTC Pool

Current Date and Time: February 23, 2020

Datewise, Batchwise and Category wise Detail Report

Date:

Batch Time:

Sr. no.	Customer ID	Customer Full Name	Receipt ID
1			
2			
3			
4			
5			
6			
7			

Fig 3.3.6 Annex 6

3.3 DATABASE DICTIONARY

This project is based on single user, accessed by admin or staff member. There are 8 tables used to store data of customers, employees, forms, category, etc.

Old Tables:

Table ▲	Action	Rows ❓	Type	Collation	Size
adminusers	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	1	InnoDB	latin1_swedish_ci	48 KiB
audit	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	8,681	InnoDB	latin1_swedish_ci	1.7 MiB
category	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	19	InnoDB	latin1_swedish_ci	32 KiB
client	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	489	InnoDB	latin1_swedish_ci	144 KiB
client_extra	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	517	InnoDB	latin1_swedish_ci	80 KiB
dates	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	1,125	InnoDB	latin1_swedish_ci	112 KiB
employee	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	0	InnoDB	latin1_swedish_ci	32 KiB
empusers	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	0	InnoDB	latin1_swedish_ci	32 KiB
forms	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	2,654	InnoDB	latin1_swedish_ci	240 KiB
guests	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	0	InnoDB	latin1_swedish_ci	32 KiB
logs	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	0	InnoDB	latin1_swedish_ci	32 KiB
machinedata	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	0	InnoDB	latin1_swedish_ci	16 KiB
monsum	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	31	InnoDB	latin1_swedish_ci	16 KiB
numbers	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	31	InnoDB	latin1_swedish_ci	16 KiB
receipt	⭐ 🔲 Browse 🔧 Structure 🔍 Search ➕ Insert 🗑 Empty ⛔ Drop	2,259	InnoDB	latin1_swedish_ci	560 KiB

Old system was working on this tables, which were later joined and new data tables were made.

ER diagram with cardinality.

Entity- Relationship Diagram (poolauto)

DHRUVIL SHAH | July 24, 2020

tblform

PK	Sysid
	CreatedDate
	SysStatus
PK	FormNo
	CustomerName
	Mobile
	Address
	NumberOfCustomer
	Date
	Amount
	GSTAmount
	NetAmount
	Remark
	Other

tblbatchmst

PK	Sysid
	CreatedDate
	SysStatus
	BatchID
	BatchStartTime
	BatchEndTime

tblmachinedatanew

PK	cid
	cpuid
	capture
	Status
	Action

tblcustomer

PK	Sysid
	CreatedDate
	SysStatus
	FormNo
	TypeOfCustomer
	CustomerName
	Address
	Age
	Gender
	Mobile
	BatchStarteDate
	BatchEndDate
	BirthDate
	Swimmer
	SwimExperience
	IsStudent
	VTCMName
	VCTMAddress
	MedCert
	Sletter
	IDCard
	Agreement
	PaymentStartDate
	PaymentEndDate
	LockerNo
FK	Cid
FK	lastReceiptID
	photo

tblemployee

PK	Sysid
	CreatedDate
	SysStatus
	Name
	Address
	Mobile
	AadharNo
FK	cid

Text

tblrecipt

PK	Sysid
	CreatedDate
	SysStatus
PK	ReceiptID
FK	FormNo
FK	CategoryName
	ReceivedDate
	TermFee
	CoachFee
	TotalFee
	CGSTAmount
	SGSTAmount
	LockerFee
	discountPercentage
	NetAmount
	PaymentStartDate
	PaymentEndDate
	PayMode
	Remark

tbldailypunchhistory

PK	Sysid
	CreatedDate
	SysStatus
FK	CustomerSysId
FK	Cid
	CustomerName
	InTime
	OutTime
	Status
	Action

tblcategory

PK	Sysid
	CreatedDate
PK	CategoryName
	SysStatus
	CategoryRemark
	DurationShortname
	DurationDays
	Information
	Fees

tblmisselenouse

PK	Sysid
	CreatedDate
	SysStatus
	Parameter
	value
	Information
	Descriptiion

3.3.6 ER Diagram

New Tables:

3.3.1 Batch master table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	Sysid 🔑	int(3)			No	None		AUTO_INCREMENT
2	CreatedDate	date			No	None		
3	SysStatus	varchar(1)	latin1_swedish_ci		No	A		
4	BatchID	int(2)			No	None		
5	BatchStartTime	time			No	None		
6	BatchEndTime	time			No	None		

Batch Master Table is used to store different batch timing. Batch Start Time and Batch End Time stores batch timing.
Table Name: tblbatchmaster

3.3.2 Category table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	Sysid 🔑	int(11)			No	None		AUTO_INCREMENT
2	CreatedDate	date			No	None		
3	CategoryName	varchar(25)	latin1_swedish_ci		No	None		
4	SysStatus	varchar(1)	latin1_swedish_ci		No	A		
5	CategoryRemark	varchar(150)	latin1_swedish_ci		Yes	NULL		
6	DurationShortname	varchar(15)	latin1_swedish_ci		Yes	NULL		
7	DurationDays	int(11)			No	None		
8	Information	varchar(150)	latin1_swedish_ci		No	None		
9	Fees	float(7,2)			No	None		
10	StrictEndDate	date			Yes	NULL		
11	ReceiptLable	varchar(150)	latin1_swedish_ci		Yes	NULL		

Category table is used to store contains different selective packages for customers. Durations of dayes are stored with their respective fees and Category name. Categories can be edited or new category can be added by user
Table name: tblcategory

3.3.3 Customer table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	Sysid 🔑	int(11)			No	None		AUTO_INCREMENT
2	CreatedDate	date			No	None		
3	SysStatus	varchar(1)	latin1_swedish_ci		No	A		
4	FormNo	varchar(10)	latin1_swedish_ci		No	None		
5	TypeOfCustomer	varchar(15)	latin1_swedish_ci		Yes	NULL		
6	CustomerName	varchar(150)	latin1_swedish_ci		Yes	NULL		
7	Address	varchar(150)	latin1_swedish_ci		Yes	NULL		
8	Age	int(11)			Yes	NULL		
9	Gender	varchar(6)	latin1_swedish_ci		Yes	NULL		
10	Mobile	bigint(10)			Yes	NULL		
11	BatchStartTime	time			Yes	NULL		
12	BatchEndTime	time			Yes	NULL		
13	BirthDate	date			Yes	NULL		
14	Swimmer	varchar(1)	latin1_swedish_ci		Yes	NULL		
15	SwimExperience	int(11)			Yes	NULL		
16	IsStudent	varchar(1)	latin1_swedish_ci		Yes	NULL		
17	VTCMName	varchar(150)	latin1_swedish_ci		Yes	NULL		
18	VTCMAddress	varchar(150)	latin1_swedish_ci		Yes	NULL		
19	MedCert	varchar(1)	latin1_swedish_ci		Yes	NULL		
20	Sletter	varchar(1)	latin1_swedish_ci		Yes	NULL		
21	IDCard	varchar(1)	latin1_swedish_ci		Yes	NULL		
22	Agreement	varchar(1)	latin1_swedish_ci		Yes	NULL		
23	PaymentStartDate	date			Yes	NULL		
24	PaymentEndDate	date			Yes	NULL		
25	LockerNO	varchar(15)	latin1_swedish_ci		Yes	NULL		
26	Cid	int(11)			Yes	NULL		
27	lastReceiptID	int(11)			Yes	NULL		
28	photo	varchar(1)	latin1_swedish_ci		Yes	NULL		
29	Remark	varchar(150)	latin1_swedish_ci		Yes	NULL		

Customer table stores customer data like customer name, addres, age, selected category, batch time, etc.
Table name: tblcustomer.

3.3.4 Daily punch history table.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	Sysid 🔑	int(11)			No	None		AUTO_INCREMENT
2	CreatedDate	date			No	None		
3	SysStatus	varchar(1)	latin1_swedish_ci		No	A		
4	CustomerSysId	varchar(15)	latin1_swedish_ci		Yes	NULL		
5	Cid	int(11)			No	None		
6	CustomerName	varchar(150)	latin1_swedish_ci		Yes	NULL		
7	InTime	time			No	None		
8	OutTime	time			Yes	NULL		
9	Status	varchar(150)	latin1_swedish_ci		Yes	NULL		
10	Action	varchar(6)	latin1_swedish_ci		Yes	NULL		

Daily punch history table stores customer in/out history. What time customer got into swimming pool and at what time customer left the pool?
Table name: tblpunchhistory

3.3.5 Employee table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	Sysid 🔑	int(11)			No	None		AUTO_INCREMENT
2	CreatedDate	date			No	None		
3	SysStatus	varchar(1)	latin1_swedish_ci		No	A		
4	Name	varchar(150)	latin1_swedish_ci		No	None		
5	Address	varchar(150)	latin1_swedish_ci		Yes	NULL		
6	Mobile	bigint(10)			Yes	NULL		
7	AadharNo	bigint(12)			Yes	NULL		
8	cid	int(11)			Yes	NULL		

Employee table stores data of employees of organization working there
Table name: tblemployee.

3.3.6 Form table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	Sysid 🔑	int(11)			No	None		AUTO_INCREMENT
2	CreatedDate	date			No	None		
3	SysStatus	varchar(1)	latin1_swedish_ci		No	A		
4	FormNo	varchar(10)	latin1_swedish_ci		No	None		
5	CustomerName	varchar(150)	latin1_swedish_ci		Yes	NULL		
6	Mobile	bigint(10)			Yes	NULL		
7	Address	varchar(150)	latin1_swedish_ci		Yes	NULL		
8	NumberOfCustomer	int(4)			No	0		
9	Date	date			No	None		
10	Amount	float(7,2)			No	None		
11	GSTAmount	float(7,2)			No	None		
12	NetAmount	float(7,2)			No	None		
13	Remark	varchar(150)	latin1_swedish_ci		Yes	NULL		
14	Other	varchar(150)	latin1_swedish_ci		Yes	NULL		

Form table stores data of forms which are filled by customer when they come first time at the Swimming Pool
Table name: tblform.

3.3.7 Receipt table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	Sysid 🔑	int(11)			No	None		AUTO_INCREMENT
2	CreatedDate	date			No	None		
3	SysStatus	varchar(1)	latin1_swedish_ci		No	A		
4	ReceiptID	int(11)			No	None		
5	FormNo	varchar(10)	latin1_swedish_ci		No	None		
6	CategoryName	varchar(25)	latin1_swedish_ci		No	None		
7	ReceivedDate	date			No	None		
8	TermFee	float(7,2)			No	None		
9	CoachFee	float(7,2)			No	0.00		
10	TotalFee	float(7,2)			No	None		
11	CGSTAmount	float(7,2)			No	None		
12	SGSTAmount	float(7,2)			No	None		
13	LockeFee	float(7,2)			No	0.00		
14	discountPercentage	float(7,2)			No	0.00		
15	NetAmount	float(7,2)			No	None		
16	PaymentStartDate	date			Yes	NULL		
17	PaymentEndDate	date			Yes	NULL		
18	PayMode	varchar(6)	latin1_swedish_ci		No	None		
19	Remark	varchar(150)	latin1_swedish_ci		Yes	NULL		

Receipt table stores data of receipt of customer after payment of category selected by customer.
Table name: tblreceipt

3.3.8 Misselenous table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	Sysid 🔑	int(11)			No	None		AUTO_INCREMENT
2	CreatedDate	date			No	None		
3	SysStatus	varchar(1)	latin1_swedish_ci		No	A		
4	Parameter	varchar(100)	latin1_swedish_ci		Yes	NULL		
5	value	varchar(100)	latin1_swedish_ci		Yes	NULL		
6	Information	varchar(150)	latin1_swedish_ci		Yes	NULL		
7	Description	varchar(150)	latin1_swedish_ci		Yes	NULL		

3.3.9 Machine data table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	cId	int(11)			Yes	NULL		
2	cpuid	varchar(20)	latin1_swedish_ci		Yes	NULL		
3	capture	datetime			Yes	NULL		
4	Status	varchar(20)	latin1_swedish_ci		Yes	NULL		
5	Action	varchar(6)	latin1_swedish_ci		Yes	NULL		

Machine data stores Cid with its respective assigned Customer.
Table name: tblmachinedata

3.4 MIGRATION QUERIES

```
DROP TABLE IF EXISTS `tblBatchMst`;
DROP TABLE IF EXISTS `tblcategory`;

DROP TABLE IF EXISTS `tblforms`;

DROP TABLE IF EXISTS `tblcustomer`;

DROP TABLE IF EXISTS `tblreceipt`;

DROP TABLE IF EXISTS `tblMisselenous`;

DROP TABLE IF EXISTS `tblDailyPunchHistory`;

DROP TABLE IF EXISTS `tblEmployee`;

CREATE TABLE `tblBatchMst` (
`Sysid` INT(3) NOT NULL AUTO_INCREMENT ,
`CreatedDate` DATE NOT NULL ,
`SysStatus` VARCHAR(1) NOT NULL DEFAULT 'A' ,
`BatchID` INT(2) NOT NULL ,
`BatchStartTime` TIME NOT NULL ,
`BatchEndTime` TIME NOT NULL ,
PRIMARY KEY (`Sysid`));

CREATE TABLE `tblcategory` (
`Sysid` int(11) NOT NULL AUTO_INCREMENT,
`CreatedDate` date NOT NULL,
`CategoryName` varchar(25) NOT NULL,
```

```
`SysStatus` varchar(1) NOT NULL DEFAULT 'A' ,
`CategoryRemark` varchar(150) NULL,
`DurationShortname` varchar(15) NULL,
`DurationDays` int(11) NOT NULL,
`StrictEndDate` date NULL,
`ReceiptLable` varchar(150) NULL,
`Information` varchar(150) NULL,
`Fees` float(7,2) NOT NULL,
PRIMARY KEY (`Sysid`)
);

CREATE TABLE `tblreceipt` (
`Sysid` int(11) NOT NULL AUTO_INCREMENT,
`CreatedDate` date NOT NULL,
`SysStatus` varchar(1) NOT NULL DEFAULT 'A' ,
`ReceiptID` int(11) NOT NULL,
`FormNo` varchar(10) NOT NULL,
`CategoryName` varchar(25) NOT NULL,
`ReceivedDate` date NOT NULL,
`TermFee` float(7,2) NOT NULL,
`CoachFee` float(7,2) NOT NULL DEFAULT '0.00',
`TotalFee` float(7,2) NOT NULL,
`CGSTAmount` float(7,2) NOT NULL,
`SGSTAmount` float(7,2) NOT NULL,
`LockeFee` float(7,2) NOT NULL DEFAULT '0.00',
`discountPercentage` float(7,2) NOT NULL DEFAULT '0.00',
`NetAmount` float(7,2) NOT NULL,
`PaymentStartDate` DATE NULL ,
`PaymentEndDate` DATE NULL ,
`PayMode` varchar(6) NOT NULL,
`Remark` varchar(150) DEFAULT NULL,
PRIMARY KEY (`Sysid`)
);

CREATE TABLE `tblforms` (
`Sysid` INT NOT NULL AUTO_INCREMENT ,
`CreatedDate` DATE NOT NULL ,
`SysStatus` VARCHAR(1) NOT NULL  DEFAULT 'A' ,
`FormNo` VARCHAR(10) NOT NULL ,
`CustomerName` VARCHAR(150) NULL ,
`Mobile` BIGINT(10) NULL ,
`Address` VARCHAR(150) NULL ,
`NumberOfCustomer` INT(4) NOT NULL DEFAULT 1,
`Date` DATE NOT NULL ,
`Amount` FLOAT(7, 2) NOT NULL ,
```

```
`GSTAmount` FLOAT(7, 2) NOT NULL ,
`NetAmount` FLOAT(7, 2) NOT NULL ,
`Remark` VARCHAR(150) NULL ,
`Other` VARCHAR(150) NULL ,
PRIMARY KEY (`Sysid`));

CREATE TABLE `tblcustomer` (
`Sysid` INT NOT NULL AUTO_INCREMENT ,
`CreatedDate` DATE NOT NULL ,
`SysStatus` VARCHAR(1) NOT NULL  DEFAULT 'A' ,
`FormNo` VARCHAR(10) NOT NULL ,
`TypeOfCustomer` VARCHAR(15) NULL ,
`CustomerName` VARCHAR(150) NULL ,
`Address` VARCHAR(150) NULL ,
`Age` INT NULL ,
`Gender` VARCHAR(6) NULL ,
`Mobile` BIGINT(10) NULL ,
`BatchStartTime` TIME NULL ,
`BatchEndTime` TIME NULL ,
`BirthDate` DATE NULL ,
`Swimmer` VARCHAR(1) NULL ,
`SwimExperience` INT NULL ,
`IsStudent` VARCHAR(1) NULL ,
`VTCMName` VARCHAR(150) NULL ,
`VTCMAddress` VARCHAR(150) NULL ,
`MedCert` VARCHAR(1) NULL ,
`Sletter` VARCHAR(1) NULL ,
`IDCard` VARCHAR(1) NULL ,
`Agreement` VARCHAR(1) NULL ,
`PaymentStartDate` DATE NULL ,
`PaymentEndDate` DATE NULL ,
`LockerNO` VARCHAR(15) NULL ,
`Cid` INT NULL ,
`lastReceiptID` INT NULL ,
`photo` VARCHAR(1) NULL ,
`Remark` varchar(150) DEFAULT NULL,
PRIMARY KEY (`Sysid`));

CREATE TABLE `tblMisselenous` (
`Sysid` INT NOT NULL AUTO_INCREMENT ,
`CreatedDate` DATE NOT NULL ,
`SysStatus` VARCHAR(1) NOT NULL DEFAULT 'A' ,
`Parameter` VARCHAR(100) NULL ,
`value` VARCHAR(100) NULL ,
`Information` VARCHAR(150) NULL ,
```

`Description` VARCHAR(150) NULL ,

PRIMARY KEY (`Sysid`));

CREATE TABLE `tblDailyPunchHistory` (

`Sysid` INT NOT NULL AUTO_INCREMENT ,

`CreatedDate` DATE NOT NULL ,

`SysStatus` VARCHAR(1) NOT NULL DEFAULT 'A' ,

`CustomerSysId` VARCHAR(15) NULL ,

`Cid` INT NOT NULL ,

`CustomerName` VARCHAR(150) NULL ,

`InTime` TIME NOT NULL ,

`OutTime` TIME NULL ,

`Status` VARCHAR(150) NULL ,

`Action` VARCHAR(6) NULL ,

PRIMARY KEY (`Sysid`));

CREATE TABLE `tblEmployee` (

`Sysid` INT NOT NULL AUTO_INCREMENT ,

`CreatedDate` DATE NOT NULL ,

`SysStatus` VARCHAR(1) NOT NULL DEFAULT 'A' ,

`Name` VARCHAR(150) NOT NULL ,

`Address` VARCHAR(150) NULL ,

`Mobile` BIGINT(10) NULL ,

`AadharNo` BIGINT(12) NULL ,

`cid` INT NULL , PRIMARY KEY (`Sysid`));

ALTER TABLE `forms` CHANGE `formno` `formno_` CHAR(7) CHARACTER SET latin1 COLLATE latin1_swedish_ci NOT NULL;
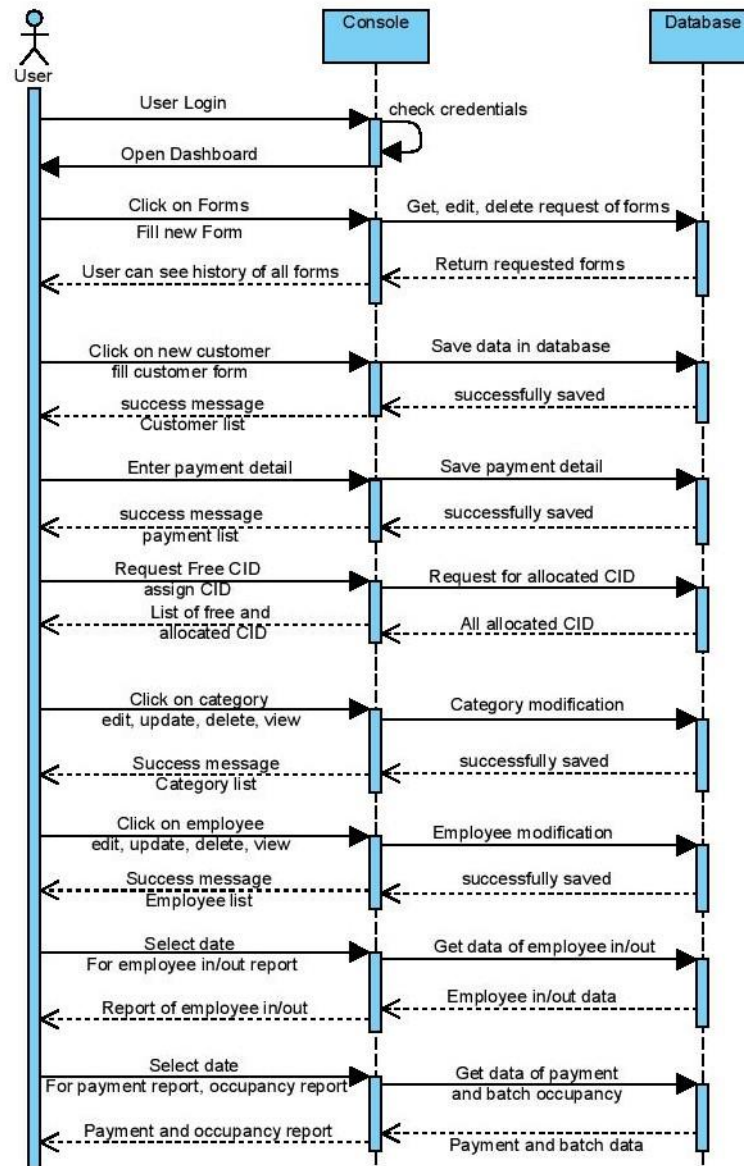
ALTER TABLE `client_extra` CHANGE `form_no` `formno` CHAR(7) CHARACTER SET latin1 COLLATE latin1_swedish_ci NULL DEFAULT NULL;

insert into tblcategory(CreatedDate, CategoryName, CategoryRemark, DurationShortName, DurationDays, fees, Information) select CURDATE(), cat_name, cat_remark, duration, 0, fees, info from category;

insert into tblreceipt(CreatedDate, ReceiptID, FormNo, CategoryName, ReceivedDate, TermFee, CoachFee, TotalFee, CGSTAmount, SGSTAmount, LockeFee, discountPercentage, NetAmount, PaymentStartDate, PaymentEndDate, PayMode, Remark) select CURDATE(), r_no, form_no, category, rdate, term_fee, coach_fee, total_fee, cgst, sgst, locker_fee, discount, netpay, strtDate, endDate, paymode, remark from receipt LEFT JOIN (SELECT DISTINCT rno, strtDate, endDate FROM dates) as seTab ON rno=r_no;

insert into tblforms(FormNo, CreatedDate, Date, CustomerName, Mobile, Address, Amount, GSTAmount, NetAmount, Other) select formno_, CURDATE(), fdate, name, mob, address, amount, gst, netpay, type from forms LEFT JOIN client ON formno_=form_no;

insert into tblcustomer(FormNo, CreatedDate, TypeOfCustomer, CustomerName, Address, Age, Gender, Mobile, BatchStartTime, BatchEndTime, BirthDate, Swimmer, SwimExperience, IsStudent, VTCMName, VTCMAddress, MedCert, Sletter, IDCard, Agreement, photo, PaymentStartDate, PaymentEndDate, LockerNO, Cid, lastReceiptID);

```
select form_no, CURDATE(), category, name, address, age, gender, mob, strtTime, endTime, dob, swim,
swim_exp, is_student, vtcm_name, vtcm_add, a_med_cert, a_sletter, a_idcard, as_agreement, photo, sDate,
eDate, LockerNO, cid, r_no_ from (select * from (select * from (select * from (SELECT * FROM client
LEFT JOIN (SELECT DISTINCT * FROM `client_extra`) as client_extra_ ON formno = form_no) as fTeb
LEFT JOIN (select form_no as _formno, max(strtDate) as sDate, max(endDate) as edate from (SELECT
DISTINCT form_no, strtDate, endDate FROM receipt INNER JOIN dates on r_no = rno) as newDate group
BY newDate.form_no) as seDates ON form_no=_formno) as fTeb_ LEFT JOIN (SELECT form_no as fno_,
lockerNo FROM `receipt` WHERE lockerNo is not NULL) lTab on form_no=fno_) as _fTab LEFT JOIN
(SELECT form_no as _fno, cid FROM `receipt` WHERE cid is not NULL) cTab ON form_no=_fno) as
__fno LEFT JOIN (SELECT max(r_no) as r_no_, form_no as f_no FROM `receipt` group BY form_no) as
lastTab ON form_no = f_no;

insert into tblBatchMst (CreatedDate, BatchID, BatchStartTime, BatchEndTime) VALUES (CURDATE(), 1,
'06:00:00', '07:00:00'), (CURDATE(), 2, '07:00:00', '08:00:00'), (CURDATE(), 3, '08:00:00', '09:00:00'),
(CURDATE(), 4, '16:00:00', '17:00:00'), (CURDATE(), 5, '17:00:00', '18:00:00'), (CURDATE(), 6,
'18:00:00', '19:00:00'), (CURDATE(), 7, '19:00:00', '20:00:00');

insert into tblMisselenous(CreatedDate, Parameter, value) VALUES (CURDATE(), 'FormFee', '127.12'),
(CURDATE(), 'FormGst', '22.88'), (CURDATE(), 'NextReceiptId', (select max(ReceiptId) from
tblreceipt)+1);

insert into tblDailyPunchHistory(CreatedDate, CustomerSysId, Cid, CustomerName, InTime, OutTime);

select date_, Sysid, machinetab.cid, CustomerName, intime, outtime
from (( SELECT cid, count(*) as t, substring(capture,12,8) as intime, NULL as outtime,
substring(capture,1,10) as date_ FROM machinedata GROUP BY substring(capture,1,10), cid HAVING t=1
and cid>25 )
UNION (SELECT cid, count(*) as t, min(substring(capture,12,8)) as itime, max(substring(capture,12,8)) as
outtime, substring(capture,1,10) as date_ FROM machinedata GROUP BY substring(capture,1,10), cid
HAVING t>1 and cid>25)) as machinetab

LEFT JOIN tblcustomer ON tblcustomer.cid=machinetab.cid;
ALTER TABLE `tblforms` CHANGE `NumberOfCustomer` `NumberOfCustomer` INT(4) NOT NULL
DEFAULT '0';

UPDATE tblforms LEFT JOIN receipt ON tblforms.FormNo=receipt.form_no SET tblforms.CustomerName
= receipt.mem_name WHERE tblforms.CustomerName IS NULL;
ALTER TABLE machinedata ADD COLUMN (`Status` VARCHAR(20) NULL , `Action`
VARCHAR(6) NULL);

-- SELECT * from tblforms WHERE CustomerName IS NULL order by Date;
ALTER TABLE `forms` CHANGE `formno_` `formno` CHAR(7) CHARACTER SET latin1 COLLATE
latin1_swedish_ci NOT NULL;
ALTER TABLE `client_extra` CHANGE `formno` `form_no` CHAR(7) CHARACTER SET latin1
COLLATE latin1_swedish_ci NULL DEFAULT NULL;
```

3.5 Sequence Diagram

3.5.1 Sequence diagram

CHAPTER 4: GUI DESIGNING

4.1 GUI

Three Types of Report			
	1. Listing Report		LR
	2. Summary Report		SR
	3. Preformatted Report		FR
Menu			
Forms			
	New Customer Form	GUI	
	Form Listing	LR	It shows rows from tblform
Category			
	New Category	GUI	
	Category Listing	LR	It shows rows from tblcategory
Customer			
	Customer Entry- Add	GUI	tblform, tblcustomer
	Customer Entry- Search/Edit/Update	GUI	
	Customer Listing (LR)	LR	Date rage--Joining from tblforms, tblcustomer, tblreceipt
	Customer Payment	GUI	tblform, tblcustomer, tabreceipt
	Payment Receipt	FR	if multiple customer then comma separated name, otherwise one to one mapping
	Payment Listing	LR	Date Range, it comes from tblreceipt and tblcustomer
	Payment Report	SR	Daily, Monthly and Financial year wise Report
	Available CID	LR	
	Remove CID	GUI	It suggests based on PaymentEndDate
Other Reports			
	Current Batch Display	LR	Annex-1
	Batch Timings (LR)	LR	Comes from tblBatchMst
	Batch Occupancy (LR)	SR	It shows current as well as next 7 days avaiability from PaymentEndDate from tblCustomer
	Bathwise Customer IN/OUT Report	LR	It shows batchwise IN/OUT from tblDailyPunchHistory (One day before), on click of today it should bring from machinedata
	payment Due	LR	from tblcustomer
	Occupancy Summary	SR	Summary count Daywise All btach occupancy report from tblmachinehistroy
	Occupancy Listing (Day to day customer listing)	LR	Listing of customer Date range, and Batch selection. Data comes from tblmachinehistory
	Dashboard	GUI	

4.1.1 GUI

New Customer form:

The new form GUI is designed to get Customer data. When the customer frist time visits swimming pool. He or She has to fill all the details like date, form no, customer name, address, amount etc.

4.1.1 New Form

Form Listing:

It shows number of forms with its details, which are filled till present date. It has date filter to view forms fill within particular time period

4.1.2 Form Listing

New/Add Customer:

It is most important form to be filled. It is use to get customer data like batch timing selected, category selects, payment details, photo id etc.

4.1.3 New Customer

Customer Listing:

This GUI shows the List of current active customers. It has 2 DateTime Picker and Search button to filter data of particular time Period.

4.1.4 Customer Listing

New Receipt:

It is used while payment of customer. It has dropdown to select category, batch time etc. It has auto calculation of CGST and GST.

4.1.5 New Receipt

Available CID:

It shows which CIDs are available from CID pool which are not in use.

4.1.6 Available CID

Remove CID:
This GUI is used to remove CID from its allocated customer when customers fess expires.

4.1.7 Remove CID

Batch Occupancy:
It shows the total no of customers in each batch with the time.

4.1.8 Batching Occupancy

IN/OUT Report:

It shows report of customers, what time get into the swimming pool and at what time he/she exist the pool. There is Date picker to filter the report data.

4.1.9 IN/OUT Report

Payment Listing:

It shows Payment on daily bases, what was the amount of payment, CGST, SGST, etc. It has data filter to filter data date wise and also what data to be displayed.

4.1.10 Daily Payment

Payment Report Month Wise:
This GUI shows data of Payment on Monthly Bases.

4.1.11 Payment Report Month Wise

New Employee Form:
This form is filled to insert data of new employee appointed at pool management.

4.1.12 New Employee Form

Employee Listing:
Shows the list of employees working at swimming pool.

4.1.13 Employee Listing

Employee daily in/out report:
Shows day wise in and out time of employees at work.

4.1.14 Employee daily in/out report

Employee monthly in/out report:
Shows in/out time of employee at work for the whole month selected.

4.1.15 Employee monthly in/out report

Employee date wise Report:
Shows the dates of month selected when employee was present at work.

4.1.16 Employee date wise in/out report

CHAPTER 5: SYSTEM IMPLEMENTATION

5.1 REQUIREMENTS

The various implementation tools are listed below:

Operating System   : Windows 10

Frontend Development   : HTML5, CSS3, Bootstrap4 and
                              JavaScript

Backend Development   : PHP and

Mysql IDE   : Visual

Studio

Web Server   : Wamp or Xampp Server

5.2 TOOLS & TECHNOLOGY USED

The front is an abstraction, simplifying the underlying component by providing a user- friendly interface. There are several tools available that can be used to develop the front end of a website.

5.2.1 HTML

HTML (Hypertext Markup Language) is the most basic building block of the Web. It describes and defines the content of a webpage. "Hypertext" refers to links that connect webpages to one another, either within a single website or between websites. Links are a fundamental aspect of the Web. By uploading content to the Internet and linking it to pages created by other people, you become an active participant in the World Wide Web.HTML uses "markup" to annotate text, images, and other content for display in a Web Browser.

5.2.2 CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language. CSS is designed primarily to enable the separation of document content from document presentation, including aspects such as the layout, colors, 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.

5.2.3 BOOTSTRAP

Bootstrap is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first web sites. Bootstrap is a free and open-source front-end web framework for designing websites and web applications. It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions. Bootstrap components such as navbar, Breadcrumbs, paginations and Bootstrap's JavaScript plugins such as dropdown, modals, carousel etc. are used in Training Management web application. Bootstrap includes a powerful mobile-first flexbox grid system for building layouts of all shapes and sizes. It's based on a 12-column layout and has multiple tiers, one

for each media query range.

5.2.4 JAVASCRIPT

JavaScript is the client-side scripting language of the web. It's one of the most popular and in demand skills in today's job market for good reason. JavaScript not only enables you to add powerful interactions to websites, but is also the foundation of a lot of commonly used libraries like jQuery.

5.2.5 PHP

PHP is general purpose scripting language that is especially suited to web development. It is fast, flexible and pragmatic. Self-referentially short for PHP: Hypertext Preprocessor, an open source, server-side, HTML embedded scripting language used to create dynamic Web pages. The characteristics of PHP are simplicity, efficiency, security, flexibility and familiarity. It can encrypt data. Using PHP, you can restrict users to access some pages of our websites. Access cookies variable and set cookies. PHP performs system functions, i.e. from files on a system it can create, open, read, write, and close them. PHP can handle forms and we can add, delete, modify elements within our database.

5.2.6 MYSQL

MySQL is a relational database management system based on the Structured Query Language, which is popular language for accessing and managing the records in the database. MySQL is open source and free software under the GNU license. It is supported by Oracle Company. MySQL is very friendly with PHP, the most popular language for web development. MySQL supports large databases and It is quicker than other databases. MySQL allows us to implement database on tables, rows, columns and indexes. It allows us to updates the table indexes automatically. It uses many SQL queries and combines useful information from multiple tables for the end users.

5.3 Cost Estimation(Man-month invented):

Team of three members Nimeshkumar Italiya, Pruthvirajsinh Vaghela and Dhruvil Shah have worked on this project under the guidance of Dr. Ritesh Patel for total 138 hours and designed 25 pages. Project execution time was 3 weeks, worked around 126 man hours/per head.

- Nimeshkumar Italiya have designed 24 pages with 232 units worked for 115 hours.
- Pruthvirajsinh Vaghela have designed 3 pages with 20 units worked for 15 hours.
- Dhruvil Shah have designed 5 pages with 63 units worked for 18 hours.

Sr No.		GUI/Report Name	GUI/REPORT	Developer Name	Text Box	Combobox	Drop down	Radio/Checkbox	Click Button	Total	1 - 3 table	3-6 table	Total Lines of code	Development Hours
1	Forms									0				
2		New Form	GUI	Nimesh	9		1		2	12	6		477	4
3		Form Listing	Report	Nimesh	1		3		5	9	7		478	5
4	Category									0				
5		New Category	GUI	Nimesh	6				2	8	3		266	2
6		Category Listing	Report	Nimesh	1		2		5	8	2		334	3
7	Customer									0				
8		Customer Entry-Add	GUI	Dhruvil	12		1	9	1	23	5		704	8
9		Customer Entry-Search/Edit/Update	GUI	Dhruvil/Nimesh	12		1	9	1	23	5		704	3
10		Customer Listing (LR)	Report	Nimesh	1		4		8	13	2		435	5
11		Customer Payment	GUI	Nimesh						0	2		485	6
12		Payment Receipt	Report	Nimesh	15	1	4	3	5	28	4		867	8
13		Payment Listing	Report	NImesh	1		4		6	11	5		482	5
14		Payment Report	Report	Nimesh	3		10		7	20		3	1146	10
15		Available CID	Report	Pruthvi	1		2		4	7	2		321	5
16		Remove CID	GUI	Pruthvi	1		2		2	5	2		300	5
17										0				
18	Other Reports									0				
19		Current Batch Display	Report	Nimesh					6	6	6		291	10

20		Batch Timings (LR)	Report	Dhruvil	0	0	0	0	0	0	1		107	1
21		Batch Occupancy (LR)	Report	Dhruvil	3	0	2		3	8	1		288	4
22		Bathwise Customer IN/OUT Report	Report	Nimesh	2		5		3	10	1	2	518	7
23		payment Due	Report	Dhruvil	3	0	2	0	2	7	1		244	2
24		Occupancy Summary	Report	Pruthvi	1		4		3	8	1		330	5
25		Dashboard	GUI	Nimesh			7		25	32			305	3
26		Deaily Payment Transaction	Report	Nimesh	1		3		3	7	1		316	4
	Employee													
27		New Employee	GUI	Nimesh	5				1	6	3		358	4
28		Employee Listing	GUI	Nimesh	1		2		4	7	2		344	6
29		Employee In/Out Daily	Report	Nimesh	2		4		3	9	2		366	5
30		Employee In/Out Monthly	Report	Nimesh	2		4		3	9		2	336	4
31		Date wise	Report	Nimesh	2		4		3	9		2	435	7
	Extra													
32		login	GUI	Nimesh	2				1	3	2		111	4
33		Dashboard	GUI	Nimesh					34				294	3
				Total	87	1	71	21	142	288	66	9	11642	138

4.3.1 Cost Estimation

CHAPTER 6: USER MANUAL

6.1 Project Page Developed

6.1.1 LOGIN PAGE

The first task for any website is security & authentication and that purpose a login page is developed so that no unknown authority can harm the system or webpage.
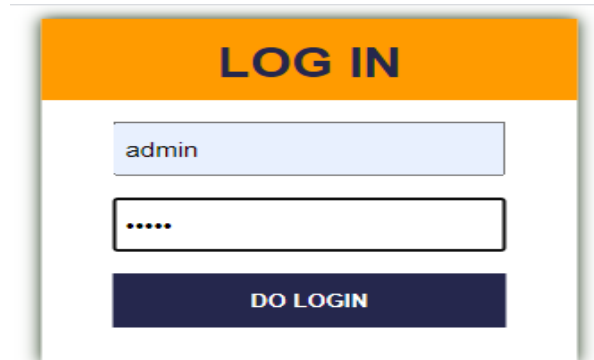
Fig 6.1.1 Login Page

When the user clicks on do login button, it will open a dashboard.

6.1.2 DASHBOARD

Dashboard is that allows the user to visualize the key performance indicators and other stragetic data for your organization at glance.

Fig 6.1.2 Dashboard

6.1.3 FORM

When user fills the physical form its data is filled in database through filling this form and its filled by pool staff.

Fig 6.1.3 Form

6.1.4 AVAILABLE CID

It shows the list of customers and employees with the respective allocated CID.

Fig 6.1.4 Available Cid

6.1.5 REMOVE CID:

It is used to free CID from allocated customers or employees after they quit the Swimming Pool. On clicking to Delete Symbol, CID is disallocated.
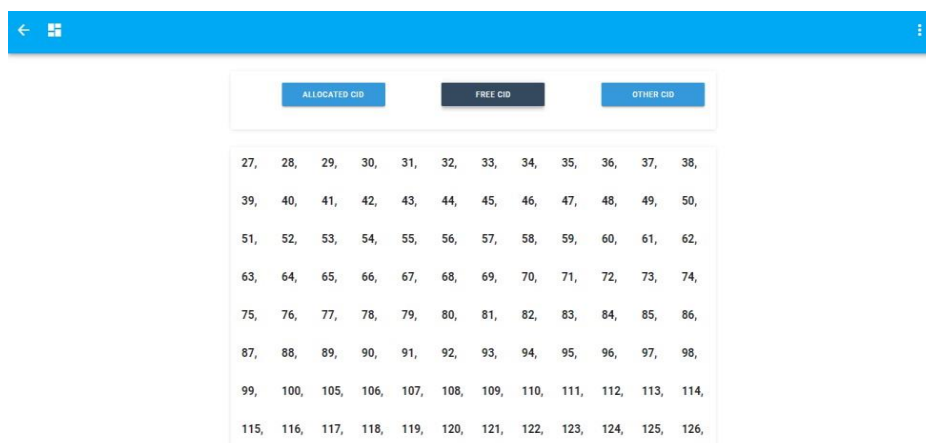
Fig 6.1.5 Remove Cid

6.1.6 FREE CID

It shows how many CID are not allocated to customers or employees and are available in free CID pool.

Fig 6.1.6 Free Cid

6.1.7 CATEGORY

This form is to be filed by Admin when they need to create new Category or when they want to edit any previously created Category.

Fig 6.1.7 Category

6.1.8   CATEGORY LISTING

It shows the number of category available which already present in the system.

Fig 6.1.8 Category Listing

6.1.9 New Customer:

This form is used to insert customer detailed information with his selected batch and category.

Fig 6.1.9 New Customer

6.1.10 Customer Listing:

This Report shows the active customer of Swimming Pool. With Date Picker to filter them on bases of their admission date.

Fig 6.1.10 Customer Listing

6.1.11 Payment Listing:

It shows the list of payments to Swimming Pool by customers on the bases of selected date in Date Picker. Default it is present day data.

Fig 6.1.11 Payment Listing

6.1.12 New employee form

This form is used to fill data of employee at time of appointment.
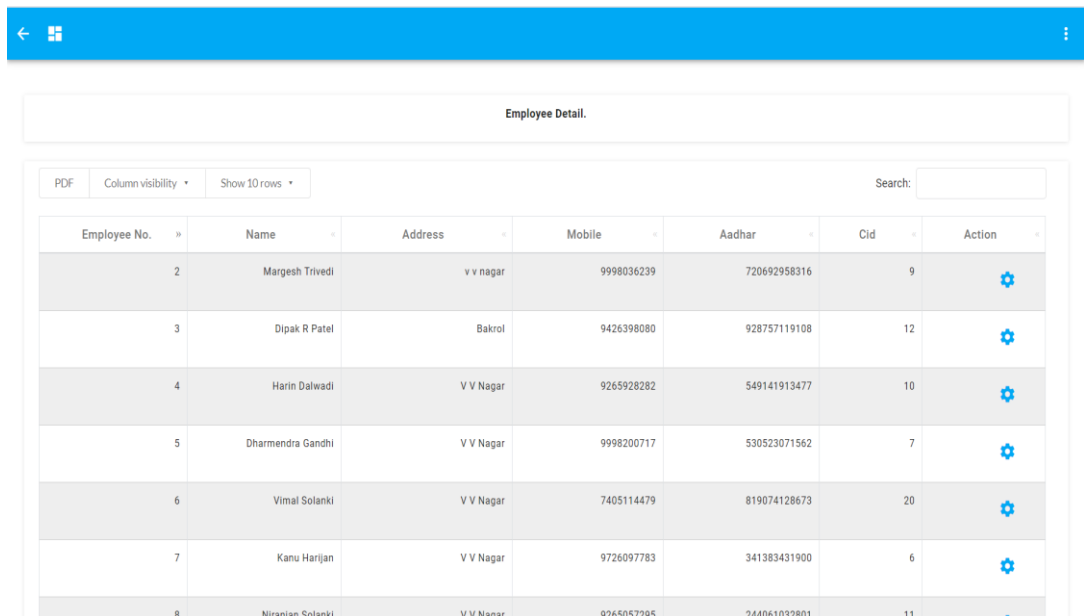
Fig 6.1.12 New employee form

6.1.13 Employee Listing

Show list of employees working at swimming pool.
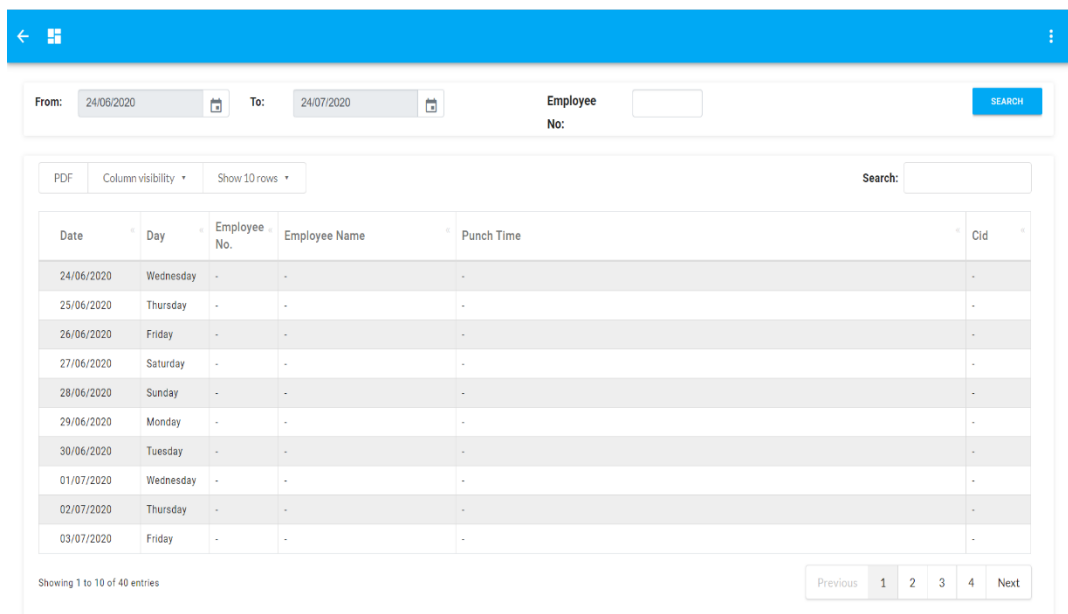
Fig 6.1.13 Employee Listing

6.1.14 Employee daily in/out report

Shows in/out time of employee of the date selected in date selected.

Fig 6.1.14 Employee daily in/out report

6.1.15 Employee monthly in/out report

Shows the in/out time of days of month selected in date picker.

Fig 6.1.15 Employee monthly in/out report

6.1.16 Employee date wise in/out report

Shows in/out time of employee on date selected in date picker.

Fig 6.1.16 Employee date wise in/out report

CHAPTER 7: TESTING

7.1 WHAT TESTING IS?

Testing is a method of assessing the functionality of a program. Testing is a set of processes aimed at investigating, evaluating and ascertaining the completeness and quality of project. Testing refers to the process of implementing all or part of the system with the intent of finding errors. It is performed in order to find the bugs or errors in the system and minimize it. In general, testing is finding out how well something works. Testing is more than just debugging.

7.1.1 UNIT TESTING

Each division class of every page is tested in the browser, Inspecting HTML, and modifying style and layout in real-time.

7.1.2 SYSTEM TESTING

After completing the overall website design and development it is tested for error by uploading the file in XAMPP Server, which shows errors along with the warnings. It also provides the validation output errors with detailed descriptions along with the code as well as line and column number in which the error occurred. XAMPP Server provides the validation by URI, by file upload and by direct input.

7.1.3 PERFORMANCE TESTING

Performance testing is designed to test the run-time performance of software within the context of an integrated system. Performance testing occurs throughout all steps in the testing process. Even at the unit level, the performance of an individual module may be assessed as white-box tests are conducted.

CONCLUSION

Everyone is studying a lot in the classroom as well as lecture hall but that full fills when those classroom and lecture hall studies going to be implemented. According to the curriculum, I had the great internship training in one of a growing start-up company called VTC POOL. Actually, nowadays practical experience is much needed than theoretical base studies. We spent around six weeks at home for my internship training. The training gave me such an opportunity to enhance my knowledge and skills with the practical business environment. This kind of training is much needed for every student in their life. Especially the department and the faculty allowed the students to get the internship training as their wishes but that should be met with their specialization and discipline of the study. In the future, the faculty, and each department should consider internship training with a public quoted company as well as a multinational company that will help the students more to learn and enhance the skill and knowledge. The internship training should be continued in the future for the student's improvement.

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