

# SUMMER TRAINING PROJECT IN WEB DEVELOPMENT

A project submitted in partial fulfillment of the requirements for  
the Degree Of

BACHELOR OF TECHNOLOGY  
(Computer Science & Engineering)



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## **PREFACE**

The purpose of this Industrial Training Report is to clarify what is the tasks that the student implemented in Internshala during their 6 weeks internship program in the organization that is specialized in web development. To provide the students with the opportunity to study the latest technical trends those have been established as well as one that what they are learning during the period of industrial training will certainly help them to develop their potential and technical skills.

My Project is “**DESTINATION CRUISES: ONLINE CRUISE BOOKING SYSTEM**” which is based on php and Sql as a database for web development.

Through this project I have learned so many skills and techniques about sql for web development. I have also learned many more concepts of php framework and how I could use it in making other websites.

## **ACKNOWLEDGEMENT**

To be able to finalizing this Industrial Training Project magnificently, there are a lot of efforts utilised from many individuals and organisations for the supports in this project to make it more valuable and accurate. I would like to extend my sincere thanks to all of them.

Organisation worked with me as an advisor and offered me help whenever I needed in every aspect of the training. The 6 weeks training in Internshala gave me an intense understanding about all web development concepts.

I would like to say thanks to internshala for the opportunity given to me as an intern in the information technology section.

Finally, I would like to extend my heartfelt gratitude to my family member especially to my mother for all her support, classmates and my other friends for their individual support throughout my internship training.

**GURBAKHS SINGH**

**(11801174)**

**3CE-7**

## **UNDERTAKING**

This is to declare that the information in this report and project is my own original gathered authentic work. It also makes practical and effective fulfilment of the purpose and objectives of this field attachment and the content of this document has never been previously submitted to any other university or institution.

This project has been made for the degree, Bachelor of Technology in Computer Science & Engineering, Punjabi University, Patiala.

GURBAKHSI SINGH  
(11801174)  
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## **ORGANIZATION PROFILE**

**INTERNSHALA** is Certified Organization established in 2015 with an aim to provide world class professional training and Solutions for Software Development and as we know that now days every educational institute is providing education through online mode and internshala is best among them, they are providing all the material needed for the internships or trainings. It is the prime institution in the field of Training and Education in India. With over 4000-5000 students undergoing training every year in field of IT.

INTERNSHALA provides industrial training to B.Tech/MCA/BCA/Diploma students and commerce students to make them proficient in following fields (some of them are):

- **Web Development**
- **Android App Development.**
- **PYTHON Programming**
- **JAVA Development**
- **Angular**
- **Cloud Computing with AWS and so on....**

It is managed by a team of highly talented professionals who have great I.T. and Training experience. The mission of INTERNSHALA is to make engineering graduates and professionals employable so that they can have blooming careers.

# CERTIFICATE

INTERNSHALA TRAININGS

## Certificate of Training

**Gurbakhsh Singh**

has successfully completed a six weeks online training on **Web Development** from 28th May, 2020 to 9th July, 2020. The training consisted of HTML & CSS, Bootstrap, SQL and PHP modules. We wish Gurbakhsh all the best for the future.



Sarvesh Agrawal  
Founder & CEO, Internshala

Date of certification: 2020-06-30

Certificate no. : F7105178-5C67-DC85-A326-4F373B287515

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

# **HARDWARE & SOFTWARE** **SPECIFICATIONS :**

## **System Requirements**

### **Hardware Requirements:-**

Minimum requirements to run this project are as under. But system with higher configuration will also be considered.

1	Core i5 Processors
2	256 MB of RAM – To execute multiple applications. Parallel execution of net beans and server and other applications on system. Multiple uses of applications at same time may stop Functioning of system. Running with less memory may cause disk swapping. Which has severe effect on performance .Very large programs may require more Ram for adequate performance.
3	3GB of Hard Disk
4	One SQL based Server



5	Client Machine
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### **Software Requirements: -**

1	Operating system
2	WampServer64 as Web Server
3	Netbeans - For Source code writing to Design Front End.
4	My SQL as Database- at backend
5	Google chrome, chromium, or Internet Explorer 7 (or later) set as your default browser. - On these web Browsers website will execute.

# **INTRODUCTION TO TECHNOLOGY USED IN PROJECT**

## **WEB DEVELOPMENT:**

### **HTML**

- HTML stands for Hyper Text Markup Language
- HTML is the standard markup language for Web pages
- HTML elements are the building blocks of HTML pages
- HTML elements are represented by <> tags
- With Cascading Style Sheets (CSS) and JavaScript it forms a triad of cornerstone technologies for the World Wide Web.
- Web browsers receive HTML documents from a web server or from local storage and render them into multimedia web pages.
- HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

# CSS

- Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language.
- Although most often used to set the visual style of web pages and user interfaces written in HTML and XHTML, the language can be applied to any XML document, including plain XML, SVG and XUL, and is applicable to rendering in speech, or on other media.
- Along with HTML and JavaScript, CSS is a cornerstone technology used by most websites to create visually engaging webpages, user interfaces for web applications, and user interfaces for many mobile applications

# BOOTSTRAP

- **Bootstrap** is the most popular **CSS Framework** for developing responsive and mobile-first websites.
- **Bootstrap 4** is the newest version of Bootstrap
- Bootstrap is a free front-end framework for faster and easier web development

- Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins
- Bootstrap also gives you the ability to easily create responsive designs

### **What is Responsive Web Design?**

Responsive web design is about creating web sites which automatically adjust themselves to look good on all devices, from small phones to large desktops.

### **Advantages of Bootstrap:**

- **Easy to use:** Anybody with just basic knowledge of HTML and CSS can start using Bootstrap
- **Responsive features:** Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
- **Mobile-first approach:** In Bootstrap, mobile-first styles are part of the core framework
- **Browser compatibility:** Bootstrap 4 is compatible with all modern browsers (Chrome, Firefox, Internet Explorer 10+, Edge, Safari, and Opera)

### **Containers**

Bootstrap 4 also requires a containing element to wrap site contents. There are two container classes to choose from:

- The **.container** class provides a responsive **fixed width container**
- The **.container-fluid** class provides a **full width container**, spanning the entire width of the viewport

.container

.container-fluid

## MY SQL SERVER

- SQL (Structured Query language) is a computer language used to store, manipulate, and retrieve data stored in databases. The first manifestation of SQL appeared in 1974, when a group in IBM developed the first sample of a relation database.
- The first commercial relational database was released by Relational Software standards for SQL exist. However, the SQL that can be used on each one of the major RDBMS today is in different flavors.
- SQL is short for Structured Query Language and is widely used database language, providing means of data manipulation (store, retrieve, update, delete) and database creation.

- Almost all modern Relational Database Management Systems like MS SQL Server, Microsoft Access, MSDE, Oracle, Db2, Sybase, My SQL, PostgreSQL and Informix use SQL as standard database language. Now a word of warning here, although all those RDBMS use SQL, they use different SQL dialects.

## **What is SQL?**

- SQL stands for Structured Query Language
- SQL lets you access and manipulate databases
- SQL became a standard of the American National Standards Institute (ANSI) in 1986, and of the International Organization for Standardization (ISO) in 1987

## **What Can SQL do?**

- SQL can execute queries against a database
- SQL can retrieve data from a database
- SQL can insert records in a database
- SQL can update records in a database
- SQL can delete records from a database
- SQL can create new databases
- SQL can create new tables in a database
- SQL can create stored procedures in a database
- SQL can create views in a database
- SQL can set permissions on tables, procedures, and views

## **SQL is a Standard - BUT....**

Although SQL is an ANSI/ISO standard, there are different versions of the SQL language.

However, to be compliant with the ANSI standard, they all support at least the major commands (such as SELECT, UPDATE, DELETE, INSERT, WHERE) in a similar manner.

## Using SQL in Your Web Site

To build a web site that shows data from a database, you will need:

- An RDBMS database program (i.e. MS Access, SQL Server, MySQL)
- To use a server-side scripting language, like PHP or ASP
- To use SQL to get the data you want
- To use HTML / CSS to style the page

## 5. PHP

**PHP** started out as a small open source project that evolved as more and more people found out how useful it was. Rasmus Lerdorf unleashed the first version of PHP way back in 1994.

- PHP is a recursive acronym for "PHP: Hypertext Preprocessor".
- PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites.
- It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.
- PHP is pleasingly zippy in its execution, especially when compiled as an Apache module on the Unix side. The MySQL server, once started, executes even very complex queries with huge result sets in record-setting time.

- PHP supports a large number of major protocols such as POP3, IMAP, and LDAP. PHP4 added support for Java and distributed object architectures (COM and CORBA), making n-tier development a possibility for the first time.
- PHP is forgiving: PHP language tries to be as forgiving as possible.
- PHP Syntax is C-Like.

## **Common uses of PHP**

- PHP performs system functions, i.e. from files on a system it can create, open, read, write, and close them.
- PHP can handle forms, i.e. gather data from files, save data to a file, through email you can send data, return data to the user.
- You add, delete, modify elements within your database through PHP.
- Access cookies variables and set cookies.
- Using PHP, you can restrict users to access some pages of your website.
- It can encrypt data.

## **Characteristics of PHP**

Five important characteristics make PHP's practical nature possible —

- Simplicity
- Efficiency
- Security
- Flexibility
- Familiarity

## **What is a PHP File?**

- PHP files can contain text, HTML, CSS, JavaScript, and PHP code



- PHP code is executed on the server, and the result is returned to the browser as plain HTML
- PHP files have extension ".php"

## **What Can PHP Do?**

- PHP can generate dynamic page content
- PHP can create, open, read, write, delete, and close files on the server
- PHP can collect form data
- PHP can send and receive cookies
- PHP can add, delete, modify data in your database
- PHP can be used to control user-access
- PHP can encrypt data

With PHP you are not limited to output HTML. You can output images, PDF files, and even Flash movies. You can also output any text, such as XHTML and XML.

## **Why PHP?**

- PHP runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)
- PHP is compatible with almost all servers used today (Apache, IIS, etc.)
- PHP supports a wide range of databases
- PHP is free. Download it from the official PHP resource: [www.php.net](http://www.php.net)
- PHP is easy to learn and runs efficiently on the server side

## **What's new in PHP 7**

- PHP 7 is much faster than the previous popular stable release (PHP 5.6)

- PHP 7 has improved Error Handling
- PHP 7 supports stricter Type Declarations for function arguments
- PHP 7 supports new operators (like the spaceship operator: <=>)

## **INTRODUCTION TO PROJECT :**

- The project contains only the admin side. The admin has to manage all the management like adding gym members, trainers, payment departments, and gyms. Admin has an important role in the management of this system.
- This Gyms Management System is in PHP and CSS. Talking about the features of the gyms management system, it contains only the Admin section.
- From here, the admin can view all the records of his/her gyms. But to edit or delete any details, you have to do it directly from the database tables.

## **DATA VALIDATIONS AND CONSTRAINTS :**

- **REQUIRED DATA FIELDS :** There are many fields in many forms in which user have to put some data . If you just not give any entry or text in some kinds of the fields then it won't allow because of that , our data is stored very neatly and all the required fields of database won't be blank .
- **NO DIGITS ALLOWED :** There are many fields in which user won't be allowed to store the digits in some fields . Like many forms

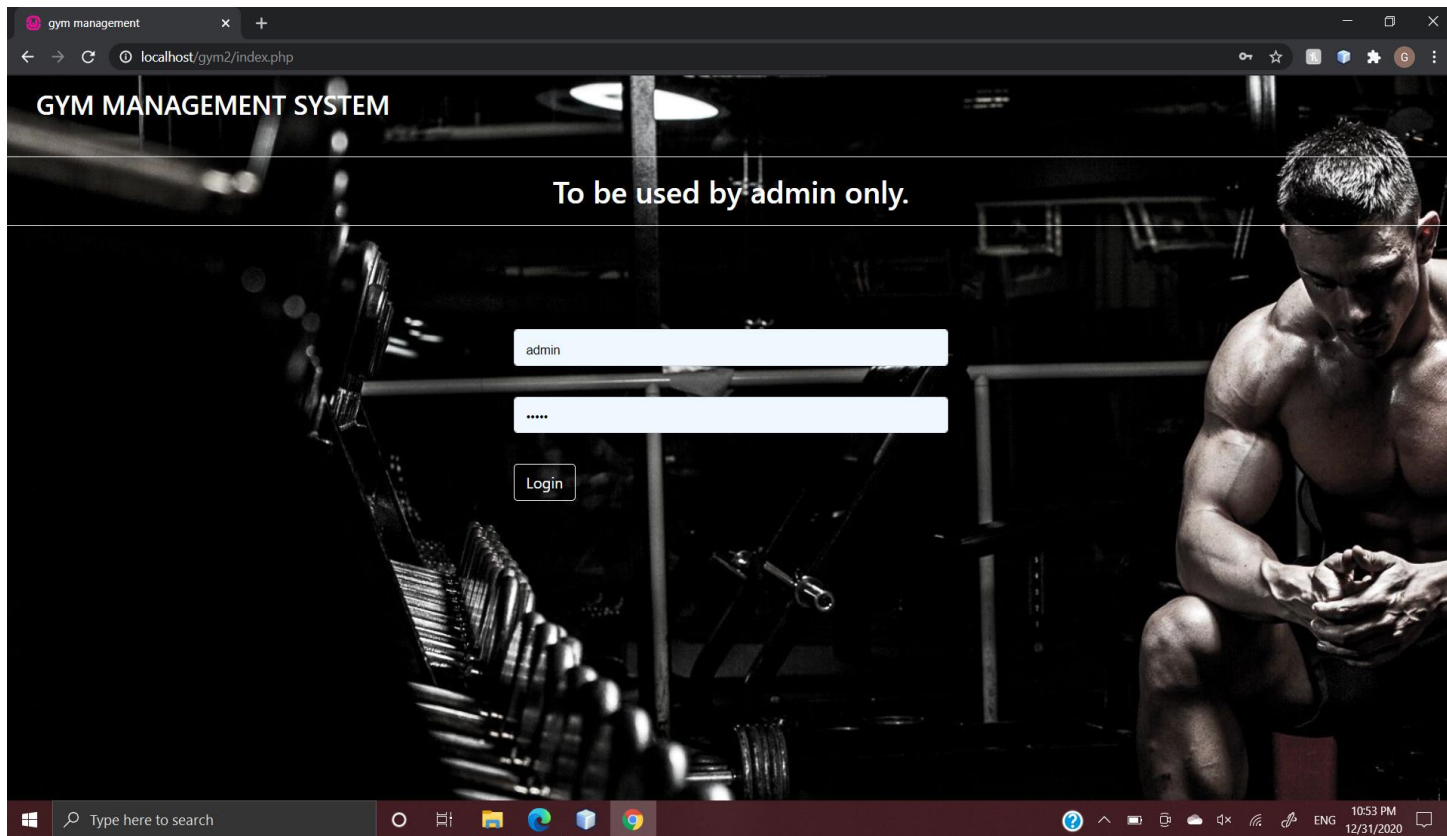
having the field like names , in which user won't be allowed to store any digits in that given fields .

- **NO ALPHABETS ALLOWED :** There are many fields in the application which user won't be allowed to store any kind of alphabets. Like in the mobile number field , user won't be allowed to store any kind of alphabets , there they just have to enter only numbers .
- **USER VALIDATION :** There is validation of username , we are just validating the username. If similar kind of user is found in the database, then application won't allow the same name of username.
- **PASSWORD VALIDATION :** Whenever user wants to change the password then he/she must enter the password.
- **EMAIL VALIDATION :** Whenever application will ask for any email , then he/she must have to enter proper email .
- **MOBILE NUMBER VALIDATION :** Whenever user is entering the mobile number then he/she must have to enter proper mobile number like he/she must have to enter 10 digits .

# SCREENSHOTS :

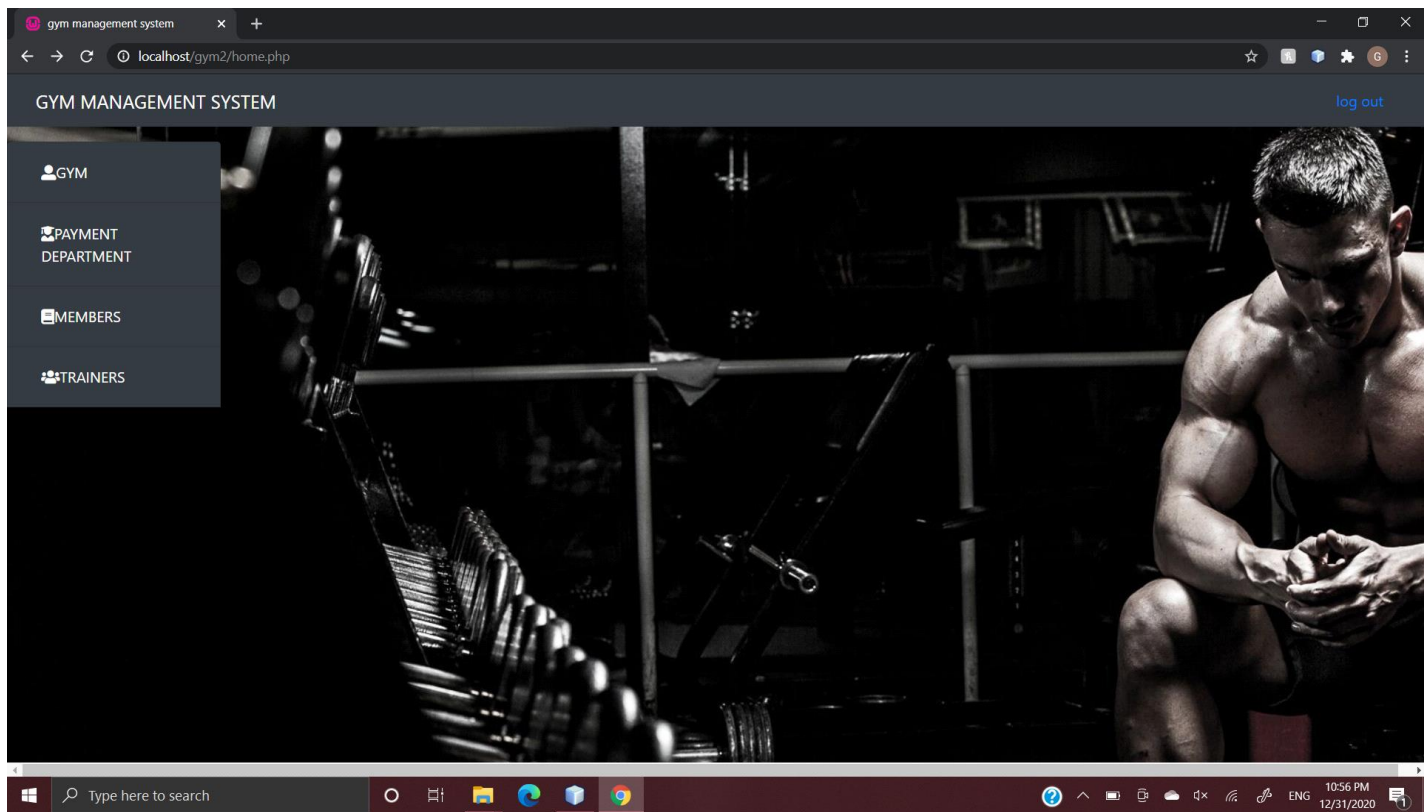
## 1. INDEX PAGE:

This page of the destination cruises. It contains some options login, signup.



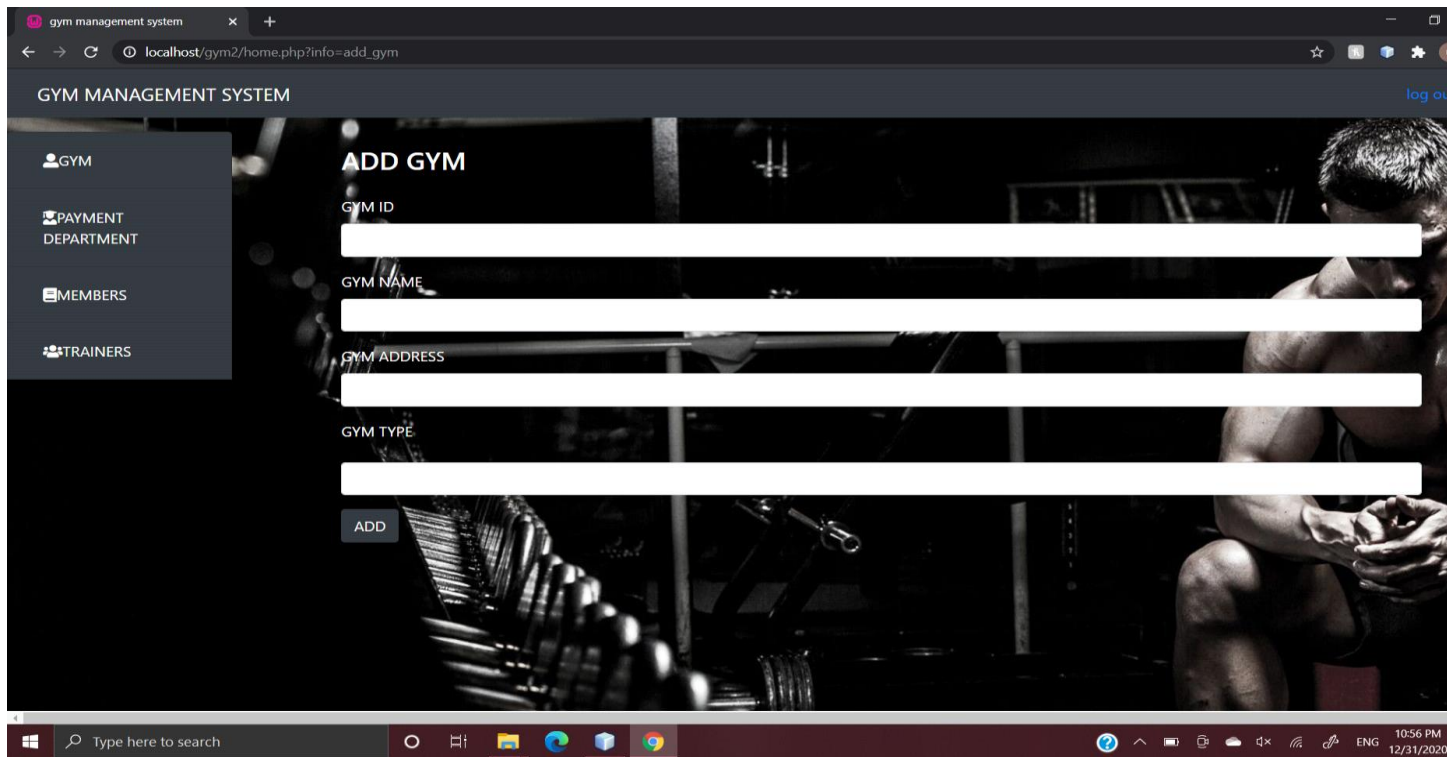
## 2. HOME PAGE:

This page contain Gym, Payment department, Members, Trainers.



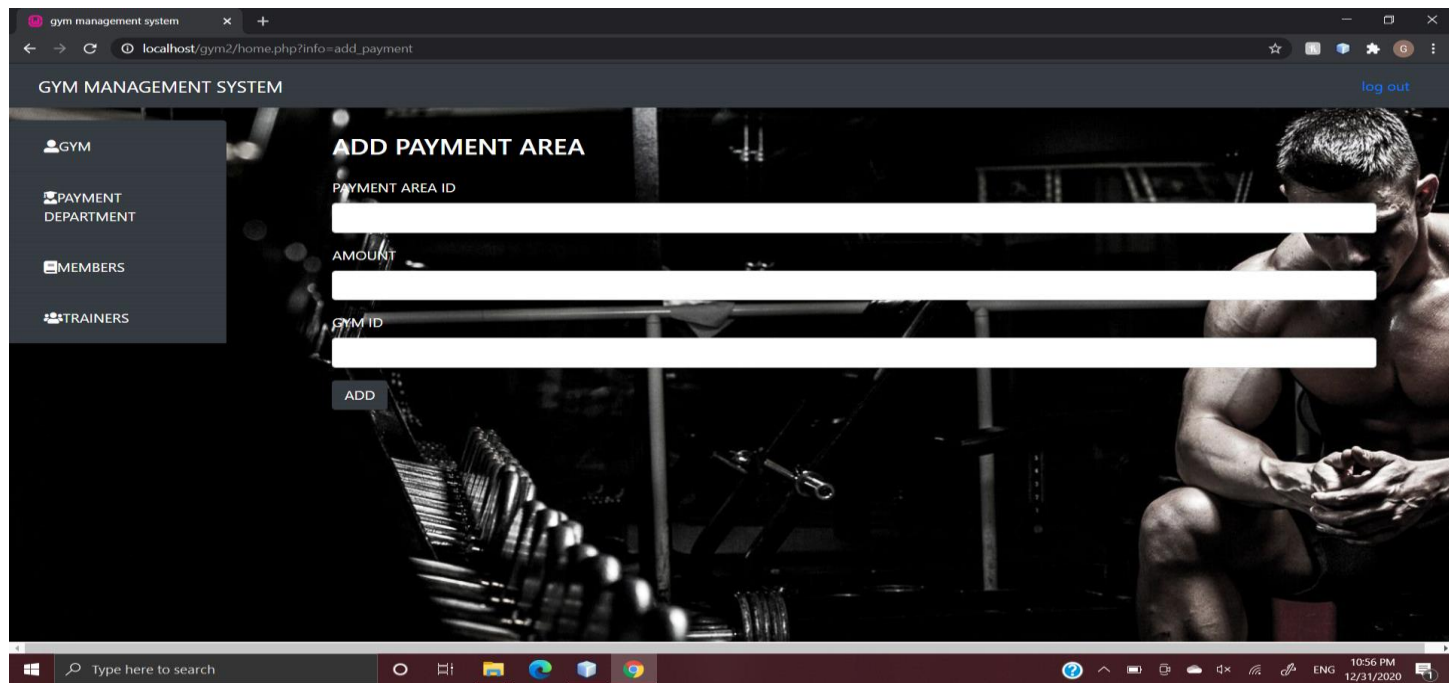
### 3. ADD GYM PAGE:

In this we can add Gym ID, Gym Name, Gym address, Gym Type and help to add Gym.



#### 4. ADD PAYMENT PAGE:

This page is used to make Payment Area In this payment area id. Amount, Gym id.



## 5. ADD MEMBER PAGE:

This is the Add Member Member id, Member Name, Age, dob, Package, Mobile no., payment area id, Trainer id.

gym management system

localhost/gym2/home.php?info=add\_member

GYM

PAYMENT DEPARTMENT

MEMBERS

TRAINERS

## ADD MEMBER

MEMBER ID

MEMBER NAME

AGE

DOB

PACKAGE

MOBILE NO

PAYMENT AREA ID

TRAINER ID

Type here to search

10:56 PM 12/31/2020

## 6. ADD TRAINER PAGE:

This is a Add Trainer, Trainer id, Trainer Name, Time, mobile no.

gym management system

localhost / MariaDB / gym / pay

localhost/gym2/home.php?info=add\_trainer

GYM MANAGEMENT SYSTEM

GYM

PAYMENT DEPARTMENT

MEMBERS

TRAINERS

## ADD TRAINER

TRAINER ID

TRAINER NAME

TIME

MOBILE NO

PAYMENT AREA ID

ADD

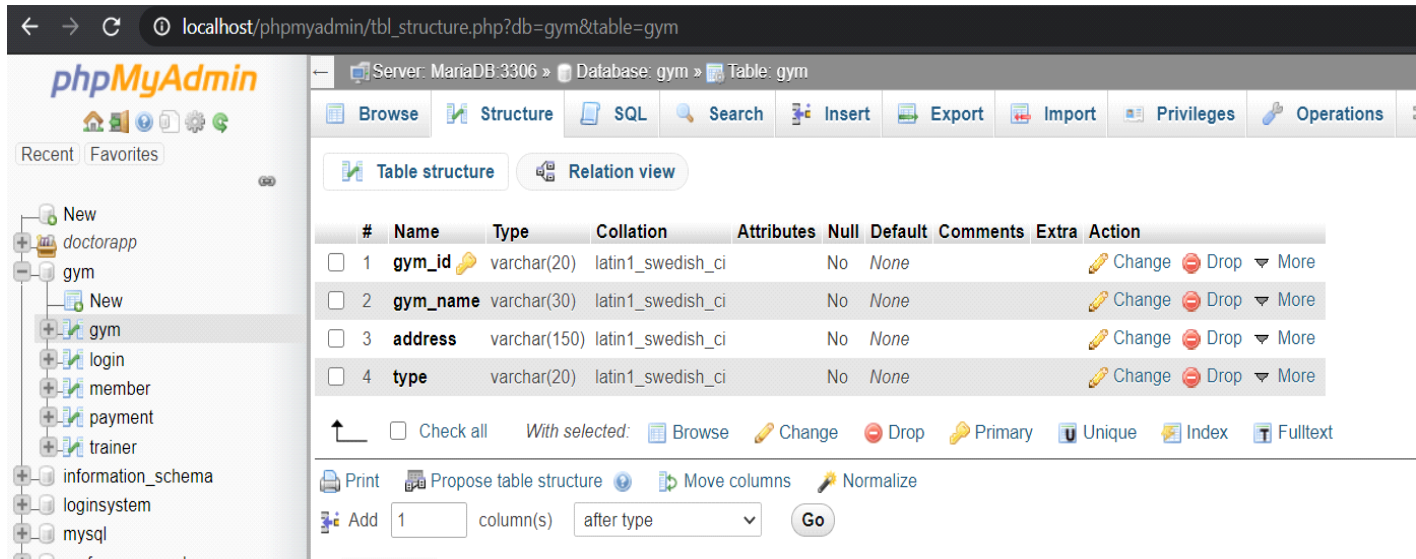
Type here to search

11:33 PM 12/31/2020



# DATABASE TABLES :

## 1. GYM



The screenshot shows the phpMyAdmin interface for a database named 'gym'. The left sidebar displays a tree view of databases, including 'doctorapp', 'gym', 'information\_schema', 'loginsystem', and 'mysql'. The 'gym' database is selected, and the 'Table: gym' is highlighted. The main panel shows the 'Table structure' view for the 'gym' table. The table has four columns: 'gym\_id' (varchar(20), primary key), 'gym\_name' (varchar(30)), 'address' (varchar(150)), and 'type' (varchar(20)). All columns are using the 'latin1\_swedish\_ci' collation and have 'No' nullability and 'None' default values. The interface includes a top navigation bar with tabs for 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', and 'Operations'. Below the table structure, there are options to 'Check all', 'With selected', and 'Move columns', along with a 'Go' button.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	gym_id	varchar(20)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	gym_name	varchar(30)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	address	varchar(150)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	type	varchar(20)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

## 2. LOGIN

localhost/phpmyadmin/tbl\_structure.php?db=gym&table=login

phpMyAdmin

Recent Favorites

- New
- doctorapp
- gym
  - New
  - gym
  - login
  - member
  - payment
  - trainer
- information\_schema
- loginsystem
- mysql

Server: MariaDB 3306 » Database: gym » Table: login

Browse Structure SQL Search Insert Export Import Privileges Operations

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(10)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/> 2	uname	varchar(30)	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 3	pwd	varchar(30)	latin1_swedish_ci		No	None			Change  Drop  More

☐ Check all
 With selected: Browse Change Drop Primary Unique Index Fulltext

Print Propose table structure Move columns Normalize

Add 1 column(s) after pwd Go

### 3. MEMBER

localhost/phpmyadmin/tbl\_structure.php?db=gym&table=member

phpMyAdmin

Recent Favorites

- New
- doctorapp
- gym
  - New
  - gym
  - login
  - member
  - payment
  - trainer
- information\_schema
- loginsystem
- mysql
- performance\_schema
- test

Server: MariaDB 3306 » Database: gym » Table: member

Browse Structure SQL Search Insert Export Import Privileges Operations

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	mem_id	varchar(20)	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 2	name	varchar(30)	latin1_swedish_ci		Yes	NULL			Change  Drop  More
<input type="checkbox"/> 3	dob	varchar(20)	latin1_swedish_ci		Yes	NULL			Change  Drop  More
<input type="checkbox"/> 4	age	varchar(20)	latin1_swedish_ci		Yes	NULL			Change  Drop  More
<input type="checkbox"/> 5	package	varchar(10)	latin1_swedish_ci		Yes	NULL			Change  Drop  More
<input type="checkbox"/> 6	mobileno	varchar(10)	latin1_swedish_ci		Yes	NULL			Change  Drop  More
<input type="checkbox"/> 7	pay_id	varchar(20)	latin1_swedish_ci		Yes	NULL			Change  Drop  More
<input type="checkbox"/> 8	trainer_id	varchar(20)	latin1_swedish_ci		Yes	NULL			Change  Drop  More

☐ Check all
 With selected: Browse Change Drop Primary Unique Index Fulltext

Print Propose table structure Move columns Normalize

Add 1 column(s) after trainer\_id Go

## 4. PAYMENT

The screenshot shows the phpMyAdmin interface for the 'gym' database. The left sidebar displays a tree view of databases and tables, with 'payment' selected under the 'gym' database. The main panel shows the 'Table structure' view for the 'payment' table. The table has three columns: 'pay\_id' (primary key), 'amount', and 'gym\_id' (foreign key). The interface includes navigation tabs (Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations) and a toolbar with actions like Change, Drop, and More for each column.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	pay_id	varchar(20)	latin1_swedish_ci		No	None			Change Drop More
2	amount	varchar(20)	latin1_swedish_ci		Yes	NULL			Change Drop More
3	gym_id	varchar(20)	latin1_swedish_ci		Yes	NULL			Change Drop More

Below the table structure, there are options to 'Check all', 'With selected', 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', and 'Fulltext'. At the bottom, there is a 'Print' button, a 'Propose table structure' button, a 'Move columns' button, and a 'Normalize' button. A 'Go' button is also present.

## 5. TRAINER

The screenshot shows the phpMyAdmin interface for the 'gym' database. The left sidebar displays a tree view of databases and tables, with 'trainer' selected under the 'gym' database. The main panel shows the 'Table structure' view for the 'trainer' table. The table has five columns: 'trainer\_id' (primary key), 'name', 'time', 'mobilenno', and 'pay\_id' (foreign key). The interface includes navigation tabs (Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations) and a toolbar with actions like Change, Drop, and More for each column.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	trainer_id	varchar(20)	latin1_swedish_ci		No	None			Change Drop More
2	name	varchar(20)	latin1_swedish_ci		Yes	NULL			Change Drop More
3	time	varchar(10)	latin1_swedish_ci		Yes	NULL			Change Drop More
4	mobilenno	varchar(10)	latin1_swedish_ci		Yes	NULL			Change Drop More
5	pay_id	varchar(20)	latin1_swedish_ci		Yes	NULL			Change Drop More

Below the table structure, there are options to 'Check all', 'With selected', 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', and 'Fulltext'. At the bottom, there is a 'Print' button, a 'Propose table structure' button, a 'Move columns' button, and a 'Normalize' button. A 'Go' button is also present.

# **BIBLIOGRAPHY**

## **References :**

The following sites are used to fulfill the requirements of proposed project and are helpful in understanding, development and the maintenance of the project.

1. <http://www.w3schools.com/>
2. <https://trainings.internshala.com/progress/home/web-development>