



Backend Development using PHP, MySQL

XAMPP Install

- ❖ Official Website for **XAMPP** :
<https://www.apachefriends.org/download.html>



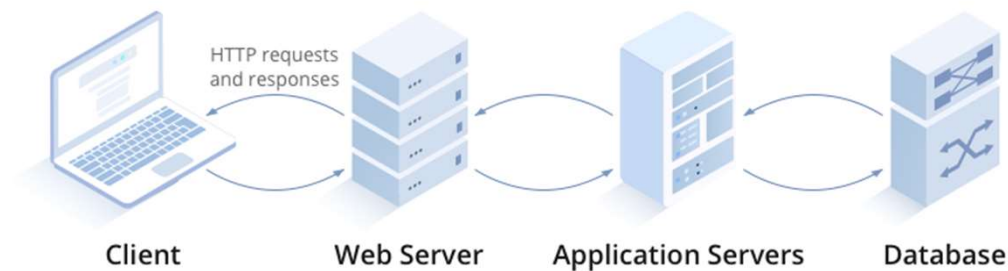
- ❖ **Note:** If you had previously installed **MySQL** or **Apache Tomcat** then un-install them before installing the **XAMPP** for the proper functioning of XAMPP.

Port No

- ❖ A **port** is a virtual point where network connections start and end.
- ❖ Ports are software-based and managed by a computer's operating system.
- ❖ Each port is associated with a specific process or service.
- ❖ Ports allow computers to easily differentiate between different kinds of traffic: **emails** go to a different port than webpages, for instance, even though both reach a computer over the same Internet connection.
- ❖ Most ports are reserved for certain protocols — **for example**, all **Hypertext Transfer Protocol (HTTP)** messages go to port 80.

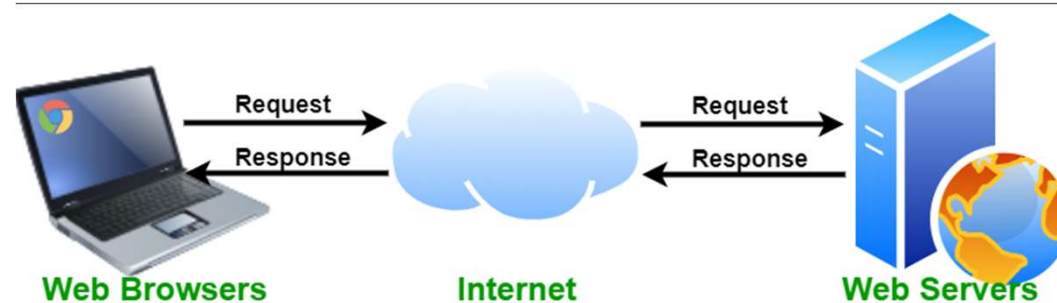
Application Server

- ❖ An application server is a server that hosts applications or software that delivers a business application through a communication protocol.
- ❖ For a typical web application, the application server sits behind the web servers.



Web Server

- ❖ A web server is software and hardware that uses HTTP (Hypertext Transfer Protocol) and other protocols to respond to client requests made over the World Wide Web.
- ❖ The main job of a web server is to display website content through storing, processing and delivering webpages to users.



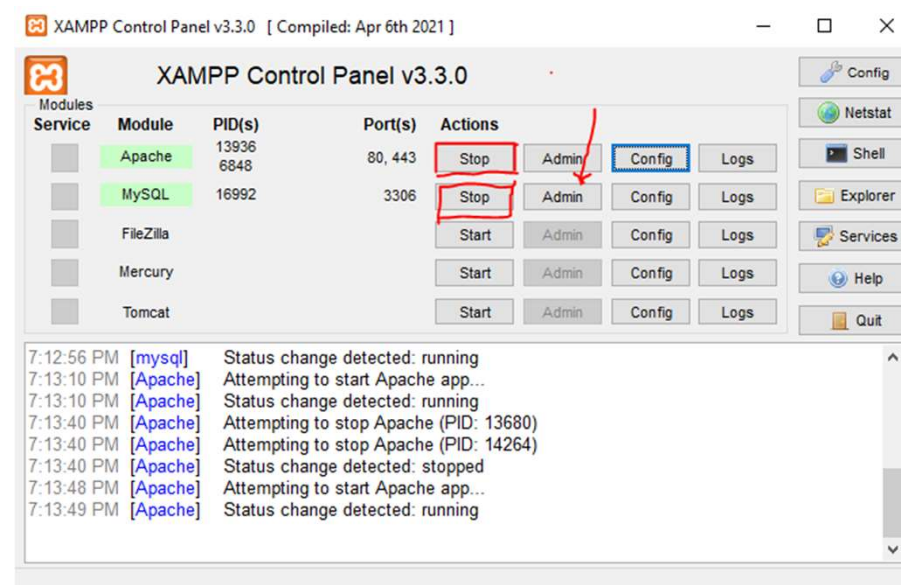
RDBMS

- ❖ RDBMS is a program used to maintain a relational database.
- ❖ RDBMS is the basis for all modern database systems such as MySQL, Microsoft SQL Server, Oracle, and Microsoft Access.
- ❖ RDBMS uses SQL queries to access the data in the database.
- ❖ RDBMS uses a structure that allows us to identify and access data *in relation* to another piece of data in the database.
- ❖ Often, data in a relational database is organized into tables.

MySQL

- ❖ MySQL is a relational database management system
- ❖ MySQL is open-source and free
- ❖ MySQL is ideal for both small and large applications
- ❖ MySQL is very fast, reliable, scalable, and easy to use
- ❖ MySQL is cross-platform
- ❖ MySQL is compliant with the ANSI SQL standard
- ❖ MySQL was first released in 1995
- ❖ MySQL is developed, distributed, and supported by Oracle Corporation
- ❖ MySQL is named after co-founder Monty Widenius's daughter: My

MySQL : Connection



MySQL : Create DB

❖ **Syntax :**

- CREATE DATABASE *database_name*;

❖ **Example :**

- CREATE DATABASE student_db;
- CREATE DATABASE employee_db;
- CREATE DATABASE event_db;

Drop DB

❖ **Example :**

- DROP DATABASE student_db;

MySQL : Create Table (DDL)

❖ Syntax :

- `CREATE TABLE table_name (
 column1 datatype,
 column2 datatype,
 column3 datatype,

);`

❖ Example :

- `CREATE TABLE Student_tb (
 StudentID int,
 StudentName varchar(255),
 Branch varchar(255),
 City varchar(255)
);`