Getting started.

Welcome to Mutall Data, here is a documentation on how to install all softwares and tools we use in our daily programming, and how to configure them. I will take you through a detailed guideline on how to correctly install all the programs on your system.

Let's start with browsers, we recommend having two or more browsers to carry out your web tests, the browsers are Mozilla Firefox, Google Chrome, Edge, and others..

By default windows users have Microsoft Edge already installed.

1. Installing Google Chrome.

- a. Go to the Google Chrome download page (https://www.google.com/chrome/).
- b. Click on the "Download Chrome" button.
- c. Select the correct version of chrome according to your system architecture (32-bit or 64-bit).
- d. After the download is complete, navigate to the download folder and double-click on the Chrome setup file.
- e. A user prompt may appear, asking for permission to make changes to your device. Click "Yes" to continue.
- f. The Chrome installer will now begin. Click "Next" to proceed.
- g. The installer will ask if you want to "Make Google Chrome the default browser."
 If you want Chrome to be your default browser, click the checkbox next to this option. If not, leave it unchecked.
- h. Click "Install" to begin the installation process.
- i. Wait for the installation to complete. It may take a few minutes.
- j. Once the installation is complete, you will be prompted to "Launch Google Chrome." If you want to start using Chrome right away, click the "Launch" button. If not, you can launch Chrome later by finding it in your Start menu or by searching for it in Windows.

2. Installing Mozilla Firefox.

- a. Go to the Mozilla Firefox download page (https://www.mozilla.org/en-US/firefox/new/)
- b. Click on the "Download now" button to begin the download.
- c. Once the download is complete, navigate to the download folder and open the Firefox setup file.
- d. The Firefox installer will now begin. Click "Next" to proceed.
- e. The installer will ask if you want to "Customize Firefox." If you want to customize your Firefox installation, click on the "Customize" button to select additional options, such as language and browser data import. If you want to install Firefox with the default settings, click "Next."
- f. Click "Install" to begin the installation process.
- g. Wait for the installation to complete. It may take a few minutes.
- h. Once the installation is complete, you will be prompted to "Launch Firefox." If you want to start using Firefox right away, click the "Launch" button. If not, you can launch Firefox later by finding it in your Start menu or by searching for it in Windows.

Now that we have our browsers set up, let's start downloading and instaling our programs.

Visual Studio Code installation Guidelines.

Visual Studio Code (VS Code) is a free and open-source code editor, it's designed for developers working on web and cloud applications and supports a wide range of programming languages including but not limited to JavaScript, TypeScript, C#, Python, PHP, Go and more.

The editor includes features such as IntelliSense (code completion), debugging, and Git integration.

It also has a large ecosystem of extensions which can add additional functionality such as additional languages, themes, and debugging tools.

- 1. Go to the Visual Studio Code website at https://code.visualstudio.com/Download
- 2. Click the "Windows" button to get setup for your Windows operating system.



- 3. Once the download is complete, open the installer file and follow the prompts to install the program.
- 4. Accept the agreement then click on "Next >".



5. Broswe the location you would like to install the program.

Satura - Microsoft Visual Studio Codo (Usor)		_	
Setup - Microsoft Visual Studio Code (oser)			
Select Destination Location			
Where should Visual Studio Code be installed?			
Setup will install Visual Studio Code into the following folder.			
,			
To continue, click Next. If you would like to select a different folder, click Br	owse.		
C: \Users\Administrator\AppData\Local\Programs\Microsoft VS Code		Brows	e
At least 353.2 MB of free disk space is required.			
At least 353.2 MB of free disk space is required.			
At least 353.2 MB of free disk space is required.			
At least 353.2 MB of free disk space is required.	k Next	>	Cancel

6. Click "Next >"

🗙 Setup - Microsoft Visual Studio Code (User)	_		×
Select Start Menu Folder Where should Setup place the program's shortcuts?			≮
Setup will create the program's shortcuts in the following Start Menu folder.			
To continue, click Next. If you would like to select a different folder, click Browse.			
Visual Studio Code	В	owse	
_			
Don't create a Start Menu folder			
< <u>B</u> ack <u>N</u> ex	t >	Ca	ncel

 If you'd like to add additional tasks you can check the checkboxes you would like to add,then click "Next >"

🛪 Setup - Microsoft Visual Studio Code (User)	_		\times
Select Additional Tasks			
Which additional tasks should be performed?			X
Select the additional tasks you would like Setup to perform while installing Visual Studio Next.	Code, the	n dick	
Additional icons:			
Create a desktop icon			
Other:			
Add "Open with Code" action to Windows Explorer file context menu			
Add "Open with Code" action to Windows Explorer directory context menu			
Register Code as an editor for supported file types			
Add to PATH (requires shell restart)			
< <u>B</u> ack <u>N</u> e	xt >	Car	ncel

8. Now you can click "Install" and allow the program to install on your system.

X Setup - Microsoft Visual Studio Code (User) -	×
Ready to Install Setup is now ready to begin installing Visual Studio Code on your computer.	⋞
Click Install to continue with the installation, or click Back if you want to review or change any setting	i.
Destination location: C:\Users\Administrator\AppData\Local\Programs\Microsoft VS Code Start Menu folder: Visual Studio Code	•
Additional tasks: Other: Register Code as an editor for supported file types Add to PATH (requires shell restart)	*
3	
< <u>B</u> ack Install	Cancel

9. Once the installation is complete, click "Finish" and Vs Code will launch automatically.



XAMPP Installation Process.

XAMPP is primarily used for web development and local testing of web applications.

It allows developers to test their code on their local machines without the need for a live web server.

- Go to the Apache Friends website "https://www.apachefriends.org/download.html" and click on the "Download" button for XAMPP.
- 2. Select the version of XAMPP that you want to install for Windows.



- 3. Once the download is complete, navigate to the download location and double-click on the installer file to begin the installation process.
- 4. Click on "Next >" to start installation.



5. Click on "Next >", you can select components you would like to install on the side menu.



6. Select the folder you will like to install the program, then click on "Next >".

Setup		-	
Installation folder			R
Please, choose a folder to install XAMPP			
Select a folder C:\xampp	1		
Mware InstallBuilder			

Select the language you will like to install the program, then click on "Next >".

				_
Language				e
XAMPP Co	ntrol Panel for Windows	supports different languag	jes.	
L <mark>angu</mark> age	English	~		
Mware Inst	allBuilder			

8. Click on "Next >".to start the installation.



- 9. Once the installation is complete, click on the "Finish" button to close the installer.
- 10. Now open the XAMPP control panel, if you get X on the service section your services have not yet been installed. Double click on the X part to install the various services..

3	XAM	MPP Contro	ol Panel v3	.3.0				Je Config
dules	Module	PID(s)	Port(s)	Actions				Netstat
×	Apache			Start	Admin	Config	Logs	Shell
×	MySQL			Start	Admin	Config	Logs	Explorer
×	FileZilla			Start	Admin	Config	Logs	Services
	Mercury			Start	Admin	Config	Logs	🚱 Help
×	Tomcat			Start	Admin	Config	Logs	Quit
.35 A 1:35 A 1:35 A 1:35 A 7:35 A 7:35 A 7:35 A 7:35 A	M [main] M [main] M [main] M [main] M [main] M [main] M [main]	Control Par Running wi XAMPP Ins Checking fo All prerequi Initializing I Starting Ch Control Par	el Version: 3.3 h Administrato tallation Directo or prerequisites sites found Addules eck-Timer nel Ready	.0 [Compi r rights - go ory: "c:\xan	led: Apr 6th iod! npp\"	2021]		

11. When you double click, you will get a prompt to install the service.



12. When the installation is successful you get a green tick symbol to show your service is available.

the second second second		FF Conin	n Fanel vo	3.0				e coning
ervice	Module	PID(s)	Port(s)	Actions				Netstat
	Apache			Start	Admin	Config	Logs	Shell
~	MySQL			Start	Admin	Config	Logs	Explore
	FileZilla			Start	Admin	Config	Logs	Service
	Mercury			Start	Admin	Config	Logs	😡 Help
×	Tomcat			Start	Admin	Config	Logs	Quit
:14:45 :14:48 :14:48 :14:48	AM [mysql] AM [filezilla] AM [filezilla] AM [filezilla] AM [filezilla]	Successful Setting Ser Setting Ser Installing se Successful Installing se	vice Name vice Display Na ervice	me				

- 13. To check if the Apache and MySQL are running, open your web browser and type localhost, you should see the XAMPP start page.
- 14. Now you can use XAMPP to run web applications locally on your computer and also to test your web pages or websites, on a local server.

Configuring your apache services to show your projects

- 1. Open XAMPP Control Panel, On Apache section tap on config, a drop down box will appear
- 2. Click on Apache (httpd.conf).

Panel v3	.3.0				Config					
Port(s)	Actions				Netstat					
	Start	Admin	Config	Logs	Shell					
	Start	Admin	Config	Logs	Explorer					P
Control Pane	1 v3.3.0 [Co	mpiled: Apr 6t	h 2021]			-		×		
XAM	IPP Cont	rol Panel	v3.3.0				P	Config	-	
Module	PID(s)	Port(s) Actio	ns		1	(Vetstat		
Apache	6824	80, 4	43 Sto	p Admir	Con!	Apache (ht	tpd.conf	0		-
MySQL	5644	33	06 Sto	p Admir	Con	Apache (no	tpa-ssi.c	oni)		
FileZilla			Sta	rt Admir	Con	Apache (ht	tpd-xam	pp.conf)		
Mercury			Sta	rt Admir	Con	PHP (php.) phpMvAdr	ni) nin (con	fig.inc.ph	(ar	
Tomcat			Sta	rt Admir	Con	< Browse>	Anache	1		
M [mysql] M [Apache M [Apache M [Apache M [mysql] M [mysql] M [Apache M [mysql] M [mysql]	Status ch Attemptin Status ch Attemptin Attemptin Status ch Status ch Attemptin Status ch	ange detecte g to start Apa ange detecte g to stop Apa g to stop My ange detecte ange detecte g to start My ange detecte	d: running ache servic d: running ache servic SQL servic d: stopped d: stopped SQL servic d: running	:e :e ! ! !		<browse></browse>	[PHP] [phpMy/	Admin]	d	

3. On the Notepad document, you will edit the DocumentRoot to your directory where your projects are located.

Note: Have your projects in a different partition from the main computer partition reduce problems while using XAMPP.



- 4. On the "File" tab click on save or you can CTRL + S to save your file, then Close the Notepad.
- 5. Restart your XAMPP services, then click on "Admin" on the Apache service to open your localhost on the browser.

	localhost	_
Index of /		
Name	Last modified	Size Description
Breko/	2023-01-09 11:38	8 e)
Documentation/	2023-01-17 02:25	-
WorldCup/	2023-01-17 02:27	-
crap/	2023-01-04 15:32	
hentionary/	2023-01-17 02:25	l es
making responsive	si.> 2023-01-17 02:25	

Changing Server type from MariaDB to MySQL.

- 1. Stop the Apache and MariaDB services in XAMPP Control Panel.
- First of all, you will have to download the latest version of the MySQL Community Server from the official website"<u>https://dev.mysql.com/downloads/mysql/</u>"(Step:1)

 MySQL Community Downloads MySQL Community Server 		
General Availability (GA) Releases Archives	_Step:	2
MySQL Community Server 8.0.32		
Select Operating System: K Microsoft Windows	<u>~</u>	Looking for previous GA versions?
Recommended Download:		
MySQL Installer for Windows		
All MySQL Products. For All Windows Platforms. In One Package.		Sten:3
Starting with MySQL 36 the MySQL Initiality parkage realises the standard MSI parkages. Windows (x86, 32 & 64-bit), MySQL Installer MSI	Go to Download P	Page >
Other Downloads:		\.
Windows (x86, 64-bit), ZIP Archive	8.0.32	223.6M Download
(mysql-8.0.32-winx64.zip) Windows (x86, 64-bit), ZIP Archive	MD 8.0.32	5: ef713081cfcee2e72c4de5f6c61db395 Signature 657.6M Download
	 MySQL Community Downloads MySQL Community Server General Availability (GA) Releases Archives I (Interpretation of the server 8.0.22) Select Operating System: Microsoft Windows Recommended Download: MySQL Installer for Windows All MySQL Products. For All Windows Platforms. In One Package. There use thyfol. Isfaet byfol. make package use the server windows (KB6, 32 & 64-bit), MySQL Installer MSI Other Downloads: Windows (K86, 64-bit), ZIP Archive (ryspi6.0.32/wind4.3p) Windows (K86, 64-bit), ZIP Archive	 MySQL Community Downloads MySQL Community Server General Availability (GA) Releases Archives Step: MySQL Community Server 8.02 Select Operating System: Microsoft Windows Recommended Download: MySQL Installer for Windows All MySQL Products. For All Windows Platforms. In One Package. Nerg with MyCL Life with Building relative to watched Will goldent. Windows (x86, 64-bit), XIP Archive 8.0.32 Windows (x86, 64-bit), ZIP Archive 8.0.32 Windows (x86, 64-bit), ZIP Archive 8.0.32

- 3. Select your Operating system Microsft Windows .(Step:2)
- In the Downloads section, select and download the ZIP file "Windows (x86, 64-bit), ZIP Archive" (Step:3)
- 5. You will be redirected to the page shown below, you can continue with the download by clicking on " No thanks, just start my download" if you dont want to create or login to the Oracle website.

G	MySQL Community Downloads
e	WysQL Community Downloads
L	ogin Now or Sign Up for a free account.
A	n Oracle Web Account provides you with the following advantages:
	 Fast access to MySQL software downloads
	Download technical White Papers and Presentations
	 Post messages in the MySQL Discussion Forums
	 Report and track bugs in the MySQL bug system
\	Login > Sign Up > using my Oracle Web account For an Oracle Web account MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can signup for a free account by clicking the Sign Up link and following the
	instructions.

- 6. Locate your compress file in your computer, then extract the content **7**. Stop on running instance of Anapha or MXSOL
- 7. Stop an running instance of Apache or MYSQL

ເສ	XAM	PP Contr	ol Panel v3.	3.0				Config
Modules Service	Module	PID(s)	Port(s)	Actions	7			Netstat
1	Apache	19032	80, 443	Stop	Admin	Config	Logs	Shell
	MySQL	20456	3306	Stop	Admin	Config	Logs	Explorer
~	FileZilla		L	Start	Admin	Config	Logs	Services
	Mercury			Start	Admin	Config	Logs	😡 Help
×	Tomcat			Start	Admin	Config	Logs	Quit
2:22:28 F 2:22:29 F 2:23:01 F 2:23:02 F 2:25:32 F 2:25:33 F 2:25:34 F 2:25:34 F	2M [mysql] 2M [mysql] 2M [mysql] 2M [mysql] 2M [Apache] 2M [Apache] 2M [mysql] 2M [mysql]	Attempting Status cha Attempting Status cha Attempting Status cha Attempting Status cha	to start MySQL nge detected: ru to stop MySQL nge detected: st to start Apache nge detected: ru to start MySQL nge detected: ru	service service opped service nning service nning				

- 8. The current working directory is C:\xampp.
- 9. Rename the mysql folder in C:\xampp to mariadb
- 10. Copy the extracted folder into C:\xampp and rename it to mysql
- 11. Create a new directory inside the mysql folder named data(C:\xampp\mysql\data).

12. Create a new configuration file in the bin directory of the mysql "C:\xampp\mysql\bin\my.ini" with the following content

c:/xampp/mysql/bin/my.ini
[mysqld]
set the basedir to your installation path
basedir= c:/xampp/mysql
set datadir to the location of your data directory
datadir=c:/xampp/mysql/data

13. Initialize the mysql directory data. Open a new command prompt and move to the bin directory of mysql (remember to run command prompt as admin):

cd c:\xampp\mysql\bin

14. Initialize MySQL with the following command mysqld --initialize-insecure

which should start an insecure instance of MYSQL (with no password) as it is in xampp.

15. You can open admin in the MySQL service section to confirm if the server Type is MySQL.

0 localhost/s	ologingadmin/	날 숙 (() 🖡 분 🧟 🌫 🖬 🖬 🖬 😭 😥 🖿
<i>lyAdmin</i> I⊛⊙⊚¢	☐ @Server 10/2013 (3) Databases B SQL SQL SQL SQL SQL SQL SQL SQL	Charsets 🎧 Englines 🌸 Pilogins
ince_schema	General settings ■ Server convector collision: @ utilinid_unicode_d	Database server 5 server 127.8.1 + to 1078* 5 server type My00. 6 server type My00. • Server versechts 554, in the Diagrammad Barrer - 694.
	Appearance settings	Photocol version: 19 User: conditionation Server charact. UTF-8 Unicode (utBitte64)

- 16. You can verify via PHPMyAdmin or you can alternatively use the command line as illustrated below.
- 17. Now open xampp control panel and start both Apache and MySQL services.
- 18. Once the services are running, you can open you can run mysql from the command prompt using:

cd c:\xampp\mysql\bin

 Run mysql from the cli with the following command mysql -u root -p

The output will be:

Welcome to the MySQL monitor. Commands end with ; or \g....

Apache Netbeans 16 Installation Guidelines.

Apache NetBeans is an Integrated Development Environment(IDE) that supports development of all Java application, mobile, web and enterprise applications.

It includes features such as code completion, debugging, and version control integration.

1. Go to the NetBeans website

https://netbeans.apache.org/download/index.html and click on the "Download" button.





3. Click on the highlighted link to download the program.



VERIFY THE INTEGRITY OF THE FILES

- 4. Once the download is complete, navigate to the download location and double-click on the installer file to begin the installation process.
- 5. If you get an error message saying "JDK was not found on this computer" you'll have to install JDK on your computer, you can continue with JDK installation process below.

Apache NetBeans IDE Installer		-		×
lava SE Development Kit (JDK) was	not found on	this compute	æ	
IDK 8 or newer is required for installing the properly installed and run installer again. You javahome installer argument.	NetBeans IDE. N J can specify val	Make sure that t id JDK location	he JDK i using	S
Fo download the JDK, visit http://www.ora	cle.com/technet	work/java/java	se/down	lloads
		Exit Install	er	-
		Exit Install	er	

JDK Installation Process.

- a. Go to the Oracle website "https://www.oracle.com/java/technologies/javase-downloads.html"
- b. Scroll down to the downloads section and select window option. Then click on the link.

û	ii oracle.com/java/technologies/downloads/#jdk19-windows				년 숙 🚯 😋 🖲 🤤	🖌 🗉 🛊 🖬 🖬 🌘
						l 📕 9
	ORACLE Products Industries F	Resources Custom	ners Partners Developers Events Company	Q (2) View Accounts	Contact Sales	
	Java downloads Tools and resources Java archi	ve				
	JDK 17 will receive updates under these terms, until at l	east September 202	24.			
	Java 19 Java 17					
	Java SE Development Kit 19.0.1 download	ls				
	Thank you for downloading this release of the Java [™] P components using the Java programming language.	atform, Standard E Stor	idition Development Kit (JDK [™]). The JDK is a development	environment for building app	lications and	
	The JDK includes tools for developing and testing prog	rams witten in the	Java programming language and running on the Java plat	form.		
	Linux macOS Windows				Step: 2	
	Product/file description	File size	Download		/	
	x64 Compressed Archive	179.13 MB	https://download.oracle.com/java/19/latest/jdk-19_wir	ndows-x64_bin.zip (shar5)		
	x64 Installer	158.91 MB	https://download.oracle.com/java/19/latest/jdk-19_wir	ndows-x64_bin.exe (sha256)	>	
	x64 MSI Installer	157.76 MB	https://download.oracle.com/java/19/latest/jdk-19_wir	ndows-x64_bin.msi (sha256)		

- c. Once the download is complete, navigate to the download location and double-click on the installer file to begin the installation process.
- d. Click on "Next >"

Java(TM) SE Development Kit 19.0.1 (64-bit) - Setup	×
Java Carace	
Welcome to the Installation Wizard for Java SE Development Kit 19.0.1	
This wizard will guide you through the installation process for the Java SE Development Kit 19.0.1.	
Next > Cancel	_

e. Click on "Next >" if you would like to change the location you can click on "Change".



- f. Once the installation is complete, click on the "Finish" button to close the installer.
- g. Next, set the environment variable on your computer, so that the system knows where the JDK is installed.
- h. Open the system properties (Right click on My computer -> properties) and click on the advanced system settings.

← Settings			, v v
mac kibe ndichujames	2030@gmail.com	tem > About	
Find a setting	٩	-	Rename this PC
📔 💻 System	Ű.	Device specifications	Сору ^
💈 Bluetooth & de	vices	Device name	
🗢 Network & inte	rnet	Processor	
🥖 Personalization		Installed RAM	
📑 Apps		Product ID	
🐣 Accounts		System type Pen and touch	
o Time & languag	je Polo	tod linke Domain or workersup. Sustem protoctor, Advanced system	cottings
Gaming	Rela	ded mits Domain of workgroup system protection. Advanced system	settings
X Accessibility		Windows specifications	Сору ^
Privacy & secur	ity	Edition Windows 11 Pro	
🧿 Windows Upda	te	Version Installed on 7 2 OS build Experience Microsoft Services Agreement Microsoft Software License Terms	

i. Then click on the environment variables.

Computer Name	Hardware	Advanced	System Protection	Remote
sompared Mame	Thandware		System 10tection	Tiemote
You must be lo	gged on as	an Administra	tor to make most of t	hese changes.
Performance				
Visual effects	processor s	che <mark>du</mark> lina. m	emory usage, and vi	tual memory
				Settings
User Profiles				
Desktop setti	ngs related to	o your sign-in		
	-	1 T		
				Settings
Startup and F	Recovery			
System startu	p, system fai	lure, and deb	ugging information	
				Settings
			Environme	ont Variables
				ant variables
		01		

j. Under system variables, scroll down and find the variable named Path, click on edit

Variable	Value
OneDrive	C:\Usen Administrator\OneDrive
OneDriveConsumer	Users\Administrator\OneDrive
Path	C:\Users\Administrator\AppData\Local\Microsoft\WindowsApps;;C
TEIVIP	C:\Users\Administrator\AppData\Local\Temp Step:2
TMP	C:\Users\Administrator\AppData\Local\Temp
	¥
	New Edit Delete
	<u>N</u> ew <u>E</u> dit <u>D</u> elete
stem variables	<u>N</u> ew <u>E</u> dit <u>D</u> elete
stem variables	New Edit Delete
stem variables Variable	New Edit Delete
stem variables Variable ComSpec	New Edit Delete
stem variables Variable ComSpec DriverData	Value C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData
stem variables Variable ComSpec DriverData NUMBER_OF_PROCESSORS	Value C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 8
stem variables Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS	Value C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 8 Windows_NT
stem variables Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS Path	New Edit Delete Value C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 8 Windows_NT C:\Program Files\Common Files\Oracle\Java\javapath;C:\Windows
stem variables Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS Path PATHEXT	New Edit Delete Value C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 8 Windows_NT C:\Program Files\Common Files\Oracle\Java\javapath;C:\Windows .COM;:EXE;.BAT;.CMD;.VBS;.VBE;JS;JSE;.WSF;.WSF;.MSC
stem variables Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS Path PATHEXT PROCESSOR ARCHITECTURE	New Edit Delete Value C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 8 Windows_NT C:\Program Files\Common Files\Oracle\Java\javapath;C:\Windows .COM; EXE;.BAT;.CMD;.VBS;.VBE;.JS; JSE;.WSF;.WSH;.MSC AMD64
stem variables Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS Path PATHEXT PROCESSOR ARCHITECTURE	Value C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 8 Windows_NT C:\Program Files\Common Files\Oracle\Java\javapath;C:\Windows .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC AMD64

 k. Click on new and paste the path of the JDK bin folder(example: C:\Program Files\Java\jdk1.8.0_251\bin)

%USERPROFILE%\AppData\Local\Microsoft\WindowsAp	os	New
C:\Users\Administrator\AppData\Local\Programs\Micros	oft VS Code\	<u>E</u> dit
		<u>B</u> rowse
		<u>D</u> elete
		Move <u>U</u> p
		Move D <u>o</u> wr
		Edit <u>t</u> ext
	OK	Cancel

m. Click on ok and restart your computer for the changes to take effect

6. If you have JDK on your computer, then Click "Next >" to continue with installation, you can click on "Customize" to select packs and runtimes to install.

١.



7. Accept terms in the license agreements and click "Next >"



8. Click "Next >" button if you would like to install the program in the default folder, if not you can select other locations.

🔾 Apache NetBeans IDE Installer	- 🗆 X
Apache NetBeans IDE 16 Installation Choose the installation folder and JDK™.	NetBeans IDE
Install the Apache NetBeans IDE to:	
C:\Program Files\NetBeans-16	Browse
JDK™ for the Apache NetBeans IDE:	
C:\Program Files\Java\jdk-19	✓ Browse

9. Click on "Install" to install the program.



- 10. Once the installation is complete, click on the "Finish" button to launch NetBeans.
- 11. After the netbeans launch, You may also be prompted to install additional software or plugins, so follow the prompts as necessary.
- 12. Once you have completed the installation process, you can start using NetBeans to develop your Java applications.

Adding DsMap

Configuring your Debugger.

- 1. Firstly, you will check if the debugger is installed on your system.
 - a. Create a file named info.php
 - b. Open the file on the browser.

PHP Version 8.1.12	P
System	Windows NT MACOMEN 10.0 build 22000 (Windows 11) AMD64
Build Date	Oct 25 2022 18:13:02
Build System	Microsoft Windows Server 2019 Datacenter [10.0.17763]
Compiler	Visual C++ 2019
Architecture	x64
Configure Command	cscript inologo (e_jscript configure.js "enable-snapshot-build"enable-debug-pack"vith-pdo- oci+.1.1.1.instantolenfod(shaned"with-od8-lae/1.1.instantolenfod(shared"enable-object-o dim/obj"enable-com-dotnel-shared"without-analyzed"with-pdo"
server API	Apache 2.0 Handler
Virtual Directory Support	enabled
Configuration File (php.ini) Path	no value
Loaded Configuration File	C:txampplphpiphp.ini
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
PHP API	20210902
PHP Extension	20210902
Zend Extension	420210902
Zend Extension Build	API420210902,TS,VS16
PHP Extension Build	API20210902,TS,VS16
Debug Build	no
Thread Safety	enabled
Thread API	Windows Threads
Zend Signal Handling	disabled
Zend Memory Manager	enabled
Zend Multibyte Support	provided by mbstring
IPv6 Support	enabled
DTrace Support	disabled

- c. Copy the all the content in the result website
- d. Paste the content in the textfield



- e. Then click on "analyse my phpIno() output"
- f. You will be redirected to https://xdebug.org/wizard
- g. Download php_xdebug-3.2.0-8.1-vs16-x86_64.dll
- h. Move the downloaded file to C:\xampp\php\ext, and rename it to php_xdebug.dll
- i. Update C:\xampp\php\php.ini and add the following lines:
 - i. zend_extension = xdebug
 - ii. xdebug.start_upon_error = yes
 - iii. xdebug.client_port = 9000

- iv. xdebug.mode = debug
- v. xdebug.client_host = localhost
- j. Restart the Apache Webserver
- 2. Open your info.php on browser to check if the Xdebug is installed correctly,
 - a. Search for xdebug,
 - b. If you get it then you have successfully installed it.

Upload projects to the server using Netbeans.

- 1. Open NetBeans on your computer.
- 2. Create a new project or open an existing one.
- 3. Right-click on your project in the "Projects" tab and select "Properties".



4. In the "Properties" window, select the "Run" category.



5. In the "Run As" dropdown menu, select "Remote Web Site".



6. In the "Remote Connection" section, click on the "Manage..." button.

index File;	Index.php	browse
Arguments:		
	http://localhost/schema/v/code/index.php	\sim
Remote Connection:) •	 Manage
Upload Directory:	/schema	
	sftp://206.189.207.206/home/mutall/projects/schema	
Upload Files:	Manually	~

- 7. In the "Manage Remote Connection" window, click on the "New..." button.
- 8. Enter the details of the server you want to connect to, including the host name or IP address, the port number, and the type of protocol you want to use (FTP or SFTP).

S R	do [SFTP]		Name: do						
B Ji			Host Name:	206.189.207.206				Port:	22
1			User Name:	mutall					
•			Password:						
l •				Leave password emp (or specify Private Ke	oty to be ey file)	prompted.			
C It			Private Key File:					В	rowse
k				Running ssh-agent v	vill be us	ed /			
F			Known Hosts File:						rowse
٠			Initial Directory:	/home/mutall/proj	ects				
:			Timeout (s):	30					
Ţ			Keep-alive interval (s):	30 Interva	10 means	disabled.			
•									
•									
1	Add	Remove	Test Connection	Configure Proxy.					
S									
A									
						ОК	Cance		Help
							ОК	Car	icel

- 9. Enter your login credentials for the server, including your username and password.
- 10. Click "Next" to test the connection. If the connection is successful, click "Finish" to save the settings.



11. In the "Properties" window, click "OK" to save the changes.

 Sources 	Configuration: <de< th=""><th>fault></th><th>V New</th><th>Delete</th></de<>	fault>	V New	Delete
Run Configuration				
Browser	Run As	Remote Web Site (FTD_SETD)		
JavaScript Libraries	Kull es.	nemote web site (FIT, SFIT)		
 npm Bower 	Project URL:	http://localhost/schema/v/code		
CDNJS	a lojest ones			
🗸 🍨 JavaScript	Index File:	index.php		Browse
 Requirels 	Arguments:			
 CSS Preprocessors 		http://localhost/schema/v/code/index.php		
Include Path				
Ignored Folders	Remote Connection:	do		Manage
 Frameworks Doctrine? 	Upload Directory:	/schema		
 Nette2 		sftp://206.189.207.206/home/mutall/projects/s	chema	
 Smarty 	Unload Files	Manually		
Symfony 2/3	opieda rinca			
🗸 🍳 Testing		Files will never be uploaded automatically		
 atoum 	Preserve Remote	File Permissions (slows down file transfer)		
Codeception	Permissions are r	not preserved for local files, only for remote one		
Nette Tester DHDLInit	📃 Upload Files Dire	ctly (temporary file is not used)		
 JavaScript Testing 	File transfer is fas	ter but less safe, so use with caution		
Selenium Testing				
Documentation				Advanced
Annotations	🛕 Index File must b	e a valid relative URL.		

12. Right-click on your "Source code" in your project in the "Projects" tab and select "Upload Files".



13. In the "Upload Files" window, select the files or folders you want to upload.



14. Click "Upload" to start the upload process.



15. Once the upload is complete, you will receive some successful messages in the terminal of Netbeans and you can also confirm in the server if your foles have been uploaded.



Installing Node js.

- Go to the Node.js website at https://nodejs.org.
 a
- 2. Click on the "Download" button to download the Node.js installer for your operating system. Node.js is available for Windows, macOS, and Linux.
- 3. Run the Node.js installer that you downloaded.
- Follow the instructions in the installer to complete the installation process. Read and accept the Terms and Conditions By default, Node.js will be installed in the "Program Files" or "Program Files (x86)" folder on Windows, or the "/usr/local/bin" folder on macOS and Linux.

- 5. Once the installation is complete, open a terminal or command prompt window.
- 6. Type "node -v" and press Enter to check that Node.js has been installed correctly. You should see the version number of Node.js displayed in the terminal.
- 7. Type "npm -v" and press Enter to check that the Node Package Manager (npm) has been installed correctly. You should see the version number of npm displayed in the terminal.

Installing Filezilla.

FileZilla is a free and open-source FTP client and FTP server software. It supports various protocols such as FTP, SFTP, and FTPS.

The client features a user-friendly interface, drag and drop support, and the ability to resume interrupted transfers.

The server version allows for easy setup and management of FTP connections. FileZilla is widely used for transferring files between a local computer and a remote server.

- 1. Go to the FileZilla website (https://filezilla-project.org/) and click on the "Download" button.
- 2. Select the version of FileZilla that is appropriate for your system (32-bit or 64-bit).
- 3. Once the download is complete, navigate to the download folder and double-click on the FileZilla setup file.
- 4. A User Account Control prompt may appear, asking for permission to make changes to your device. Click "Yes" to continue.
- 5. The installer will ask you to agree the license agreement, Click on "Agree"



6. You might be requested to install brave, if you would like to install brave browser select "Accept" or select "Decline" to continue with Filezilla installation.



7. You select users who will get access to Filezilla program, you can leave it on default to allow all users to have access. Click "Next" to proceed



- 8. The installer will ask if you want to "Create a desktop icon." If you want to create a desktop icon, click the checkbox next to this option. If not, leave it unchecked.
- 9. The installer will ask if you want to "Create a quick launch icon." If you want to create a quick launch icon, click the checkbox next to this option. If not, leave it unchecked. Click "Next" to proceed.
- 10. Wait for the installation to complete. It may take a few minutes.
- 11. Once the installation is complete, you will be prompted to "Launch FileZilla." If you want to start using FileZilla right away, click the "Launch" button. If not, you can launch FileZilla later by finding it in your Start menu or by searching for it in Windows.
- 12. Once the FileZilla is launched, you will be prompted to create a new connection. Enter the server details and click on "Connect" to connect to the FTP server.

How to upload projects to the server using filezilla.

5 sftp://mutall@	206.189.207.206 - FileZilla				
<u>File Edit View</u>	<u>Transfer</u> <u>Server</u> <u>B</u> ookmarks	<u>H</u> elp			
₩ ■	🗂 🗰 🖸 🎼 🛛 🔭	🏷 🗮 🔍 🔍 🦓			
Host:	<u>U</u> sername:	Pass <u>w</u> ord:	Port:	<u>Quickconnect</u>	
Status: Conn	ecting to 206.189.207.206				

1. Status: Connecting to 206.189.207 Status: Using username "mutall".

Open up your Filezilla program, enter the details of the server you want to connect to. This includes the host name, the username the port number, and password which are provided below.

Server Details for Mutall.

Host name : **sftp://206.189.207.206** Username : **Mutall** The password we will provided to you. Port: **22**

- 2. Once you have entered all the required details, click on the "Connect" button to establish a connection to the server.
- 3. After you have established a connection, you will see two panes in the FileZilla window. The left pane shows the files and folders on your local computer, while the right pane shows the files and folders on the remote server.

Local site: C:\Users\Adminis	strator\			Remote site: /home/mutall					
Admini Admini Admini Admini Admini Default Default Default Windows Windows XboxGame Do (Side) Do (Side)	stator 3 User 5			⊖ 2 / ⊖ 2 home ⊕ — mutali					
Filename	Filesize Filetype	Last modified		Filename	Filesize Filetype	Last modified	Permissions	Owner/Group	
2				1					
android.	File folder	3/21/2023 10:25:00		cache	File folder	3/6/2022 7:16:4	drwx	mutall mutall	
config	File folder	1/17/2023 9:17:11		config	File folder	3/6/2022 7:16:4	drwx	mutall mutall	
📒 .nbi	File folder	1/17/2023 9:14:02		linuxbrew	File folder	11/30/2020 1:0	drwxrwxr-x	mutall mutall	
ssh	File folder	1/26/2023 9:38:28		local	File folder	6/29/2020 3:13:	drwxrwxr-x	mutall mutall	
.vscode	File folder	1/17/2023 5:32:42		npm 🚞	File folder	2/9/2022 11:01:	drwxrwxr-x	mutall mutall	
🚞 ansel	File folder	1/14/2023 6:40:41		oh-my-zsh	File folder	4/6/2022 10:27:	drwxr-xr-x	mutall mutall	
Cara AppData	File folder	7/8/2022 12:19:50			File folder	3/21/2023 9:24:	drwxrwxr-x	mutall mutall	
Application Data	File folder	3/21/2023 10:24:10		ivscode	File folder	7/25/2020 4:03:	drwxrwxr-x	mutall mutall	
Contacts	File folder	7/8/2022 12:19:54		.vscode-server	File folder	9/28/2020 3:32:	drwxrwxr-x	mutall mutall	
Cookies	File folder	7/8/2022 3:34:12 PM		🚞 .yam	File folder	10/27/2020 4:1	drwxrwxr-x	mutall mutall	÷
E Desktop	File folder	3/20/2023 12:31:31		adebug 🔁	File folder	7/25/2020 4:03:	drwxrwxr-x	mutall mutall	
Documents	File folder	3/20/2023 12:00:17		= project	File folder	9/21/2022 2:51:	drwxrwxr-x	mutall mutall	
Downloads	File folder	3/21/2023 9:52:05		projects	File folder	3/6/2023 6:19:2	drwxrwxrwx	mutall mutall	
Favorites	File folder	1/18/2023 2:11:01		to snap	File folder	3/23/2022 6:16	drwx	mutall mutall	
Links	File folder	7/8/2022 12:19:55		test	File folder	7/22/2022 10:0	drwxr-xr-x	root root	
Local Settings	File folder	3/21/2023 10:32:56		B.bash logout	220 Bash Logo	2/25/2020 3:03:	·rw-rr	mutall mutall	~
Music	File folder	3/16/2023 11:12:32		i .bashrc	3,771 Bash RC So	2/25/2020 3:03:	-FW-FF	mutall mutall	
My Documents	File folder	3/20/2023 12:00:17		Cloud-locale-test.skip	0 SKIP File	6/27/2020 2:42:	-rw-rr	mutall mutall	
NetHood	File folder	6/5/2021 3:10:48 PM		lesshst	20 LESSHST File	1/29/2023 6:42:	-rw	mutall mutall	
11 files and 29 directories. Tota	al size: 7,095,899 bytes			22 files and 15 directories. Tota	al size: 237,234 bytes				4

- 4. To upload files to the server, simply select the files or folders you want to upload in the left pane and then drag them to the desired location in the right pane. You can also use the upload button on the toolbar, which looks like an arrow pointing upwards.
- 5. Once you have uploaded the files, you can check that they have been successfully uploaded by refreshing the right pane. The newly uploaded files should now appear in the folder you uploaded them to.

You are also required to have git in your system.

Installing Git.

Git is a version control system (VCS) that is used for tracking changes in computer files and coordinating work on those files among multiple people.

Git allows developers to work on the same codebase simultaneously by keeping track of changes made to the files and allowing different versions to be merged together seamlessly. This makes it easy for teams of developers to collaborate on the same project, and also makes it easy to roll back to previous versions of the code if something goes wrong.

Git also provides a powerful set of tools for managing and reviewing changes, such as branching, merging, and diffing, which help developers keep track of their codebase and collaborate more effectively.

- 1. To install Git, you will first need to download the installer for your operating system from the official Git website (https://git-scm.com/downloads).
- 2. Select the correct version of according to your system architecture (32-bit or 64-bit).
- 3. Once the installer has been downloaded, run it and follow the prompts to complete the installation.
- 4. Click on "next"



5. If you would like to change the destination, select bowse and change location otherwise you can, Click on "Next" to continue with the default one.



6. Select components you would like to be installed, then click on "Next".

alast Components			
Which components should be installed	?		
	2/8		
Select the components you want to ins	stall; clear the compor	ients you do not	want to
Install. Click Next when you are ready	to continue.		
Additional icons			
On the Desktop			
Windows Explorer integration			
- Git Bash Here			
🔄 🔄 Git GUI Here			
Git LFS (Large File Support)			
Associate .git* configuration files	with the default text	editor	
Associate .sh files to be run with E	Bash		
Check daily for Git for Windows up	pdates		
(NEW!) Add a Git Bash Profile to V	Windows Terminal	3	
Current coloction requires at least 202	A MP of disk appen		
Current selection requires at least 293	o. HIND OF USK space.		
r/gittorwindows.org/			

- 7. You can select "Dont create a Start Menu Folder" if you dont want to have a shortcut created on the desktop, then click on "Next".
- 8. Select editor you would like to be using, then click on "Next".



9. Select the your initial branch name, to use the default branch name you can select "Let git decide" option. Or select "Override the default branch name for new repositories" and add your custom name.

	crop					^
Adjusting t	he name of the ir	nitial branch in	new reposito	ries		
What wou	ıld you like Git to na	me th <mark>e initial bra</mark>	nch after "git inil	:"?		Ŷ
◯ Let G	it decide					
Let in ne a me	Git use its default br ewly created reposit ore inclusive name ir	anch name (curr tories. The Git pr the near future	ently: "master") oject <u>intends</u> to	for the initial change this de	oranch efault to	
Over	ride the default l	oranch name f	or new reposil	ories		
NEV "mai initia	/! Many teams alrea in", "trunk" and "dev al branch:	dy renamed thei velopment". Spec	ir default branch tify the name "gi	es; common d t init [*] should u	noices are se for the	
mai	n					
This setti	ng does not affect (existing repositor	ries.			
	lowis oral					
https://gitforwind	ionional at					

10. Click on "Next" to continue with the default path environment.



11. Click on "Next" to use the handled OpenSSH.

🊸 Git 2.39.1 Setup	1			\times
Choosing the SSH executable				
Which Secure Shell client program would you like (Git to use?			
O Use bundled OpenSSH				
This uses ssh.exe that comes with Git.				
🔿 Use external OpenSSH				
NEW! This uses an external ssh.exe. Git wil (and related) binaries but use them as foun	l not install its own Ope d on the PATH.	nSSH	ł	
https://gitforwindows.org/				
			1	

12. Select library to use for HTTPs connection, then Click on "Next"



13. Select how you would like git to treat the endings of text files, then click "Next"

Git 2.59.1 Setap	19		1
Configuring the line ending conversions			1
How should Git treat line endings in text files?			
O Checkout Windows-style, commit Unix-st	tyle line endings		
Git will convert LF to CRLF when checking out text files, CRLF will be converted to LF. For cro this is the recommended setting on Windows (text files. When com oss-platform projects "core.autocrlf" is set	mitting ;, to "true").	
O Checkout as-is, commit Unix-style line er	ndings		
Git will not perform any conversion when ched committing text files, CRLF will be converted to this is the recommended setting on Unix ("core	king out text files. W o LF. For cross-platfo autocrlf" is set to "in	hen prm projects, nput").	
○ Checkout as-is, commit as-is			
Git will not perform any conversions when chea text files. Choosing this option is not recomme projects ("core.autocrif" is set to "false"). ps://gitforwindows.org/	cking out or committi nded for cross-platfo	ng prm	
	1		

14. Select which terminal emulator you would like git bash to be using, then click "Next".



15. Select the default behaviour of git pull, then click on "Next"

•	Git 2.39.1 Setup	100	
	Choose the default behavior of `git pull`		
	What should `git pull` do by default?		
	O Default (fast-forward or merge)		
	This is the standard behavior of `git pull`: fast-forware the fetched branch when possible, otherwise create a	rd the current b merge commit.	ranch to
	○ Rebase		
	Rebase the current branch onto the fetched branch. commits to rebase, this is equivalent to a fast-forward	If there are no I.	local
	Only ever fast-forward		
	Fast-forward to the fetched branch. Fail if that is not	possible.	
shhe	se l'aitenuis douis aval		
ncp	ss//git or windows to g/	<u> </u>	
	Back	Next) Ca

16. Choose creditian helper, then click on "Next".

A DECEMBER OF A				1999 A. 1999
🥸 Git 2.39.1 Setup				×
Choose a credential helper				
Which credential helper should be configured?				<u>~</u>
O Git Credential Manager				
Use the cross-platform Git Credential Manager				
See more information about the future of Git C	redential Manage	er <u>here</u> .		
O Nega				
ONOR				
Do not use a credential helper.				
tps://aitforwindows.ora/				
			-	
Ba	ck Nex	t	Can	cel

17. Check which extra features you would like to enable, then click on "Next"

			^
Configuring extra options			
Which features would you like to	enable?		V
🕝 Enable file system cachi	ng		
File system data will be rea operations ("core.fscache" performance boost.	d in bulk and cached in memory for is set to "true"). This provides a sig	certain nificant	
Enable symbolic links			
Enable <u>symbolic links</u> (requ	ires the SeCreateSymbolicLink permi	ssion).	
FICASE HOLE WIAL EXISTING P	epositories are unarrected by unsise	cung.	

18. Click on "Install" to finish installation, it might take some time to install, then click on "Finish" to close the installer dialog page.

19. To verify that Git has been installed correctly, you can open a terminal or command prompt and type "git --version". This should return the version number of Git that you have installed.



- 20. To start using git, you will have to set up your username and email using the command:
 - a. git config --global user.name "Your Name"
 - b. git config --global user.email "youremail@example.com"
- 21. You can check the config by using:
 - a. git config --list
- 22. You can now use git for version control in your local machine.

One last item you need to have in your system is the Acer projector software for presenting your work.

How to install it on your machine:

 Open the acer projector website,make sure your connected to the mutual network and the projector is also on the same network <u>http://192.168.100.217/cgi-bin/welcome.cgi?lang=en</u> 2. Download the acer projector software, select Windows OS for windows users.



- 3. Once the setup is downloaded, double click on it on the setup.
- 4. Whent the acer projection applications click on the play button to connect to the projector.

			୍		
	Res	solution: 1920	0x1080		
	Di	splay Quality	: Fine		
	_				
Freeze	Stop	Project	Solit Screen	Hide	

ANDROID sTUDIO

 Download Android Studio: Go to the official website of Android Studio https://developer.android.com/studio and click on the "Download Android Studio" button. You can choose the latest version based on your operating system.



- 2. Run the Android Studio setup: Once the download is complete, run the Android Studio setup file. You may be prompted with a security warning, click "Yes" or "Allow" to proceed.
- 3. Choose components: In the next window, you can choose which components to install. Generally, the default components are sufficient for most users, so you can click on "Next" to proceed.
- 4. Choose installation location: You can choose the installation location for Android Studio on your computer. If you want to use the default location, just click "Next" to proceed.



- 5. Select Start Menu Folder: You can choose whether you want to create a shortcut for Android Studio in the Start menu folder. Click "Install" to proceed.
- 6. Wait for installation: The installation process may take a few minutes to complete. Wait for the progress bar to finish.
- 7. Launch Android Studio: Once the installation is complete, click on the "Finish" button to launch Android Studio.



8. Configure Android Studio: Android Studio may prompt you to configure some settings, such as setting up a new project or importing an existing one.



After the Android Studio installation wizard has completed, you will need to follow these steps to set up Android Studio:

 Accept the Terms and Conditions: When you launch Android Studio for the first time, you will be prompted to accept the terms and conditions of the software. Read the terms and conditions carefully and click on the "I Agree" button. Choose a theme: You can choose a theme for Android Studio based on your preference. You can select "Dark", "Light" or "Custom". You can also skip this step by clicking on the "Skip" button.



3. Install Android SDK: After accepting the terms and conditions, you will be prompted to install the Android SDK. The SDK is required to develop Android applications. You can either choose to install the recommended SDK or choose a custom SDK location.

Android Studio Setup Wizard		-		×
License Agreem Read and agree to the licenses t	ient for the components which will be installed			
Licenses Android-sdk-license SDK Patch Applier v4 Android SDK Platform 33-ext5 Android SDK Build-Tools 33.0.2 Android SDK Platform-Tools Android Emulator intel-android-extra-license	Terms and Conditions This is the Android Software Development Kit License Agreement 1. Introduction 1.1 The Android Software Development Kit (referred to in the License Agreer and specifically including the Android system files, packaged APIs, and Goo is licensed to you subject to the terms of the License Agreement. The Licens a legally binding contract between you and Google in relation to your use of 1.2 "Android" means the Android software stack for devices, as made availal Android Open Source Project, which is located at the following URL: http://source.android.com/, as updated from time to time. 1.3 A "compatible implementation" means any Android device that (i) comp Android Compatibility Definition document, which can be found at the And website (http://source.android.com/compatibility) and which may be updat time; and (ii) successfully passes the Android Compatibility Test Suite (CTS). 1.4 "Google" means Google Inc. a Delaware compatible with principal place	nent as th gle APIs a e Agreen f the SDK. ole under ole under ole swith roid com ted from f Declin	ne "SDK" Idd-ons) ent form the patibility time to	s
	Previ Next <u>C</u> ar	ncel	<u>F</u> inis	n

4. Set up the Android Virtual Device (AVD) Manager: The Android Virtual Device Manager is used to create and manage virtual devices that emulate different Android devices. You can create an AVD by clicking on the "AVD Manager" button and then clicking on the "Create Device" button.



5. Create a new project: Once you have set up the SDK and AVD, you can create a new Android project. Click on the "Create New Project" button and follow the instructions to create a new Android project.



For Linux Users.

1) Run the updater command

sudo apt update

- 2) Enter your System root password
- 3) Then run the upgrade command

sudo apt upgrade

- 4) Press Y to continue
- 5) Then run the autoremove command sudo apt autoremove
- 6) Press Y to continue

Step -1: Install Apache Web Server on ubuntu.

1) Install apache2 with the following command.

sudo apt install apache2 -y

- 2) Whether Apache web server is successfully installed or not goto browser and type anyone form following in address bar
 - a. http://localhost/
 - b. <u>http://127.0.0.1/</u>
 - c. http://your_machine_ip_address/
- 3) Enable firewall settings by following commands :
 - a. sudo ufw status
 - b. sudo ufw enable
 - c. sudo ufw app list
 - d. sudo ufw allow in "Apache Full"

Step - 2: Install mysql-server on ubuntu.

1) Install mysql with the following command.

sudo apt install mysql-server

- 2) Then press Y to continue
- Login mysql with root user without password with sudo sudo mysql
- 4) Create a database in the mysql kernel.

create database db_name; use db_name; select database(); exit

Step - 3: Install php and its required libraries:

1) Install mysql with the following command.

sudo apt install php php-mysql libapache2-mod-php

- 2) Press Y to continue
- Check if php is installed successfully with the following command.
 php -v
- 4) Create one sample php file in Apache Web server root directory
 - a. Go to the root directory.

cd /var/www/html

- b. Create a file.php sudo gedit file_name.php
- c. Go to browser and run http://localhost/file_name.php
- 5) Change permission for apache root directory. sudo chown -R \$USER:\$USER /var/www/html
- 6) Create a php file without sudo through terminal using gedit or any other text editor.

gedit file_name.php

7) Goto browser and run http://localhost/file_name.php

Step - 4: Install PHPMyAdmin.

1) Run the updater command

sudo apt update

- 2) Enter your System root password
- 3) Then run the upgrade command

sudo apt upgrade

- 4) Press Y to continue
- 5) Install mysql with the following command.

sudo apt install phpmyadmin

- 6) Press Y to continue
- 7) Select Apache2 by pressing space and then press tab and OK
- 8) Press Yes and set password for dummy user phpMyAdmin
- 9) Restart apache2.

sudo systemctl restart apache2

10) Check whether phpMyAdmin is successfully installed or not, goto browser and type

http://localhost/phpmyadmin

- 11)Default user name is "phpMyAdmin" and enter your password which added during the configuration.
- 12) Run update

sudo apt update

- 13) Set root password and create a new database user with full privileges
 - a) sudo mysql
 - b) SELECT user, authentication_string, plugin, host FROM mysql.user;
 - c) ALTER USER 'root'@'localhost' IDENTIFIED WITH caching_sha2_password BY 'password';
 - d) SELECT user, authentication_string, plugin, host FROM mysql.user;
 - e) exit
- 14) Run the following to login with password sudo mysql -p
- 15) Enter your password
 - a) CREATE USER 'new_user'@'localhost' IDENTIFIED WITH caching_sha2_password BY 'password';
 - b) GRANT ALL PRIVILEGES ON . TO 'new_user'@'localhost' WITH GRANT OPTION;
 - c) exit
- 16) Once again restart apache and mysqql with the following command sudo systemctl restart apache2 && sudo systemctl restart mysql
- 17) Goto web browser and type http://localhost/phpmyadmin
- 18) Enter new username and password. Now you can create databases, tables and execute some queries through the phpmyadmin site.

Step - 4: Install Git.

 It's a good idea to make sure you're running the latest version. To do so, Navigate to your command prompt shell and run the following command to make sure everything is up-to-date:

sudo apt-get update

2) To install Git, run the following command

sudo apt-get install git-all

3) Once the command output has completed, you can verify the installation by typing:

git version

- Step 5 : Installing FileZilla client.
 - 1) To install FileZilla client from the command line, use the following commands.
 - a) sudo apt-get update
 - b) sudo apt-get install filezilla
 - 2) The following command prints the version of the installed FileZilla client.
 - a) filezilla --version