

**RENSSELAER POLYTECHNIC INSTITUTE**

**SPRING-2020**

**SOFTWARE DEVELOPMENT**

**(ITWS-6700)**

**Assignment 3 - Report**

**Submitted by-**  
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## 1. Objective

Develop wiki-pages using XAMPP and Media WIKI with a PHP program that connects to the MySQL database.

## 2. Environment Setup

### 2.1. System Environment

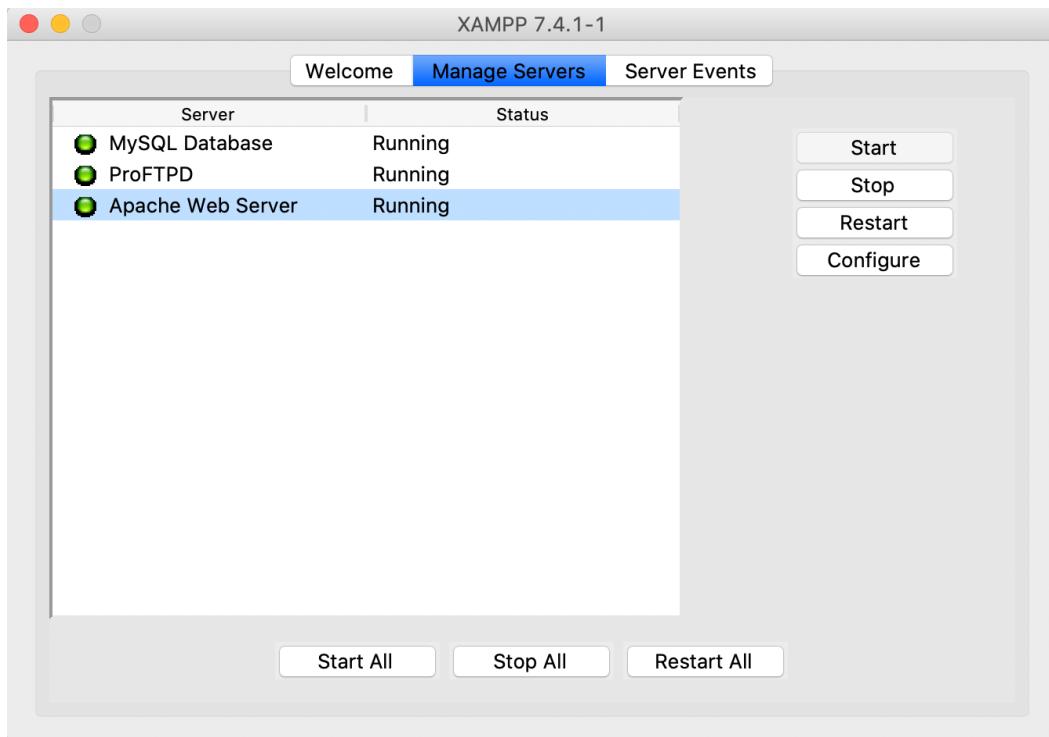
The System on which we created wiki-pages is the Mac operating system (Version 10.15.3 (19D76)). As the Mac already has Apache installed, we just enabled them. We made use of XAMPP, it is open-source software available for download and it already has an apache package.

### 2.2. Deployment Environment

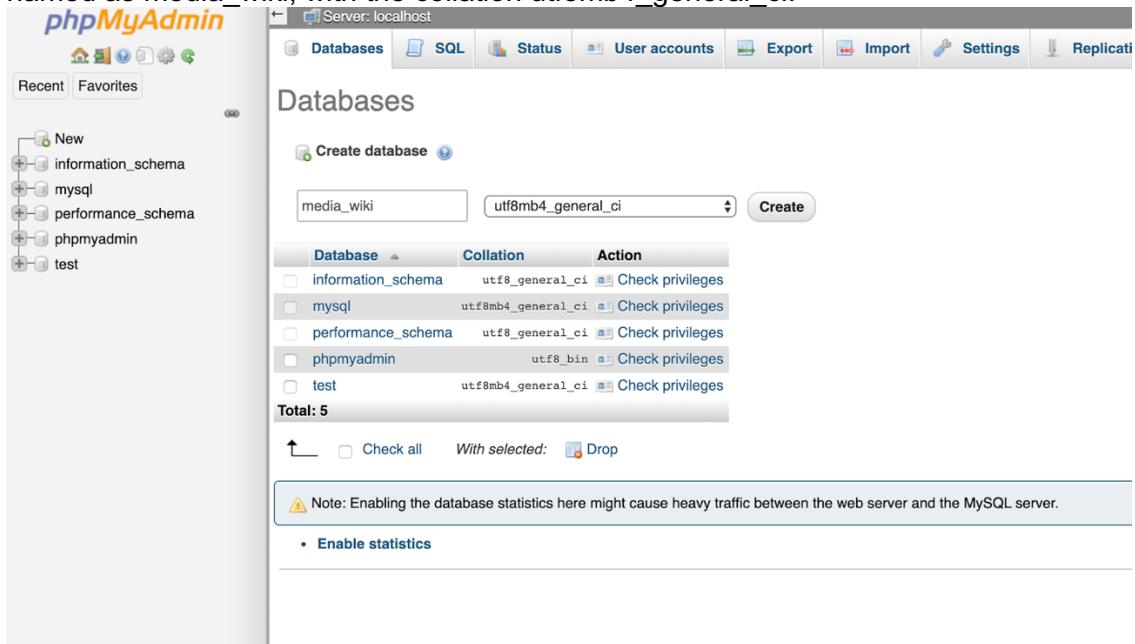
For developing the wiki-pages, we first did the XAMPP setup. For writing the code, we made use of Sublime Text Editor version 3.2.2. This editor is easy to use and is compatible with the use of PHP and HTML. we also made use of Notepad at the beginning of the deployment of the webpage.

## 3. Installation:

After successfully installing the XAMPP (Version 7.4.1-1), we made all the servers as shown in the figure.

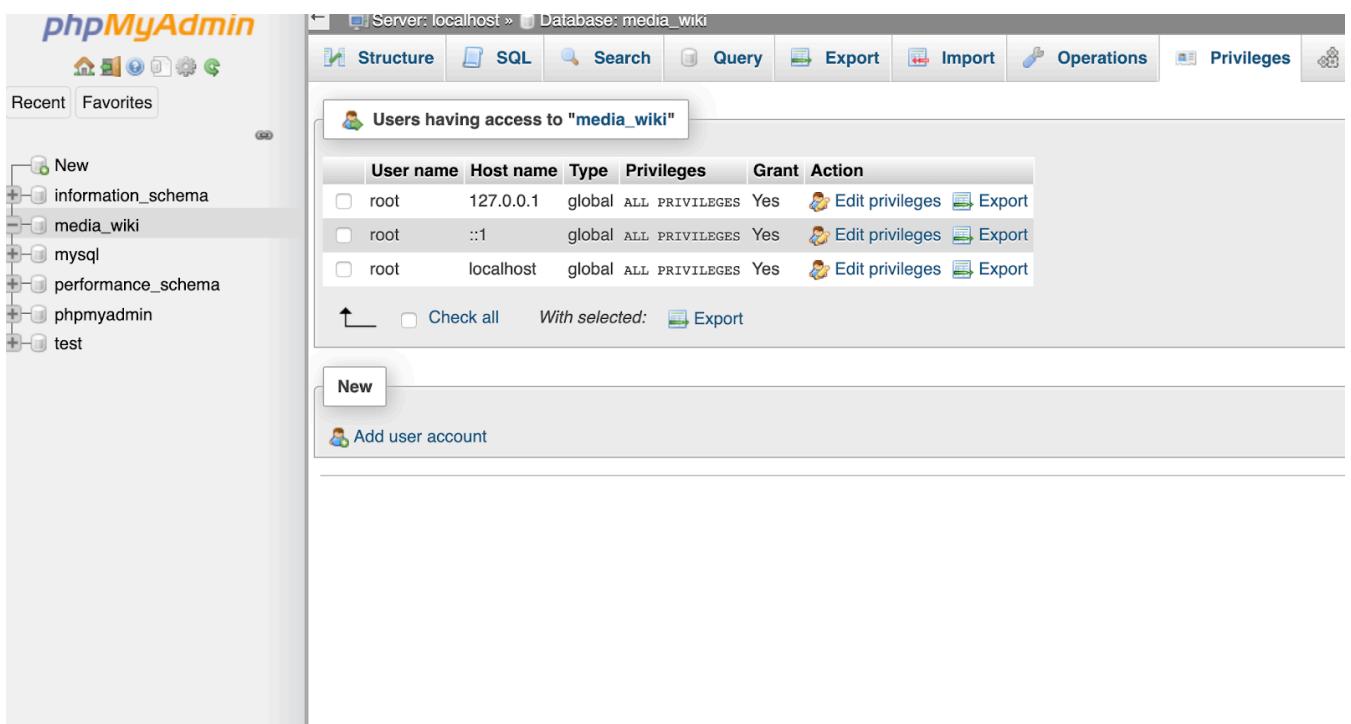


After installing the XAMPP, we did the setup of the Database by creating the new database, named as media\_wiki, with the collation utf8mb4\_general\_ci.



The screenshot shows the 'Databases' section of phpMyAdmin. On the left, a tree view shows the 'information\_schema', 'mysql', 'performance\_schema', 'phpmyadmin', and 'test' databases. In the main area, a 'Create database' form is open, with 'media\_wiki' entered in the 'Name' field and 'utf8mb4\_general\_ci' selected in the 'Collation' dropdown. A 'Create' button is visible. Below the form, a table lists existing databases with their collations and checkboxes for 'Check privileges'. A note at the bottom cautions about enabling statistics, with a 'Enable statistics' link.

In the Privileges tab, as shown in the figure, we used the Add new user account button as shown.



The screenshot shows the 'Privileges' tab for the 'media\_wiki' database. The 'Structure' tab is selected. The main area displays a table titled 'Users having access to "media\_wiki"'. The table has columns: User name, Host name, Type, Privileges, Grant, and Action. Three entries for the 'root' user are listed: one for '127.0.0.1', one for '::1', and one for 'localhost', all with 'global' type and 'ALL PRIVILEGES' granted. Each entry has 'Edit privileges' and 'Export' buttons. Below the table, a 'New' button and an 'Add user account' link are visible.

For adding the new user account, we named the user as “wikiuser”, the hostname is localhost, and we set the desired password for the wiki user account. The figure displays what we did for this process.

## Add user account

**Login Information**

User name: Use text field: wikiuser

Host name: Local (localhost)

Password: Use text field: ..... Strength: Strong

Re-type: .....

Authentication Plugin: Native MySQL authentication

Generate password: Generate

After clicking Go, we grant all the permissions to the user of the sql, as shown.

**Database for user account**

- Create database with same name and grant all privileges.
- Grant all privileges on wildcard name (username\\_%).
- Grant all privileges on database media\_wiki.

**Global privileges**  **Check all**

Note: MySQL privilege names are expressed in English.

<input checked="" type="checkbox"/> Data	<input checked="" type="checkbox"/> Structure	<input checked="" type="checkbox"/> Administration	<input checked="" type="checkbox"/> Resource limits
SELECT	CREATE	GRANT	MAX QUERIES PER HOUR 0
INSERT	ALTER	SUPER	MAX UPDATES PER HOUR 0
UPDATE	INDEX	PROCESS	MAX CONNECTIONS PER HOUR 0
DELETE	DROP	RELOAD	MAX USER CONNECTIONS 0
FILE	CREATE TEMPORARY TABLES	SHUTDOWN	
	SHOW VIEW	SHOW DATABASES	
	CREATE ROUTINE	LOCK TABLES	
	ALTER ROUTINE	REFERENCES	
	EXECUTE	REPLICATION CLIENT	
	CREATE VIEW	REPLICATION SLAVE	
	EVENT	CREATE USER	
	TRIGGER		

Note: Setting these options to 0 (zero) removes the limit.

After giving all the access it showed up with the 'wikiuser@localhost' in the database media\_wiki. And it asked to edit the privacy of the table. We Clicked go and here is the figure for that.

You have added a new user.

```
CREATE USER 'wikiuser'@'localhost' IDENTIFIED VIA mysql_native_password USING '***';GRANT ALL PRIVILEGES ON .* TO 'wikiuser'@'localhost' REQUIRE NONE WITH MAX_QUERIES_PER_HOUR 0 MAX_CONNECTIONS_PER_HOUR 0 MAX_UPDATES_PER_HOUR 0 MAX_USER_CONNECTIONS 0;CREATE DATABASE IF NOT EXISTS `wikiuser`;GRANT ALL PRIVILEGES ON `wikiuser`.* TO 'wikiuser'@'localhost';GRANT ALL PRIVILEGES ON `media_wiki`.* TO 'wikiuser'@'localhost';
```

[Edit ini]

**Database**

Edit privileges: User account **'wikiuser'@'localhost'** - Databases *media\_wiki*

**Database-specific privileges**  Check all

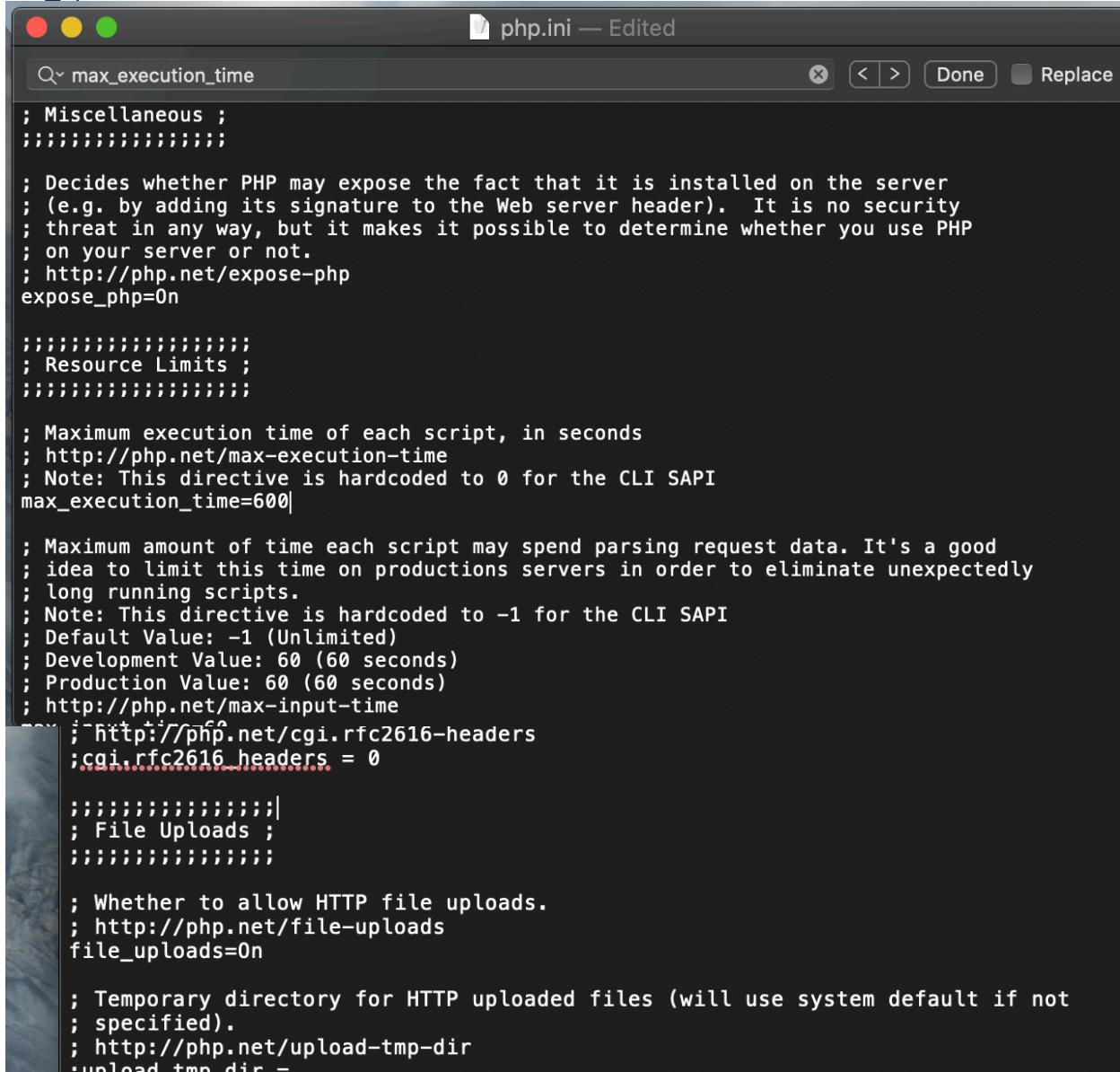
Note: MySQL privilege names are expressed in English.

<input checked="" type="checkbox"/> <b>Data</b>	<input checked="" type="checkbox"/> <b>Structure</b>	<input type="checkbox"/> <b>Administration</b>
<input checked="" type="checkbox"/> SELECT <input checked="" type="checkbox"/> INSERT <input checked="" type="checkbox"/> UPDATE <input checked="" type="checkbox"/> DELETE	<input checked="" type="checkbox"/> CREATE <input checked="" type="checkbox"/> ALTER <input checked="" type="checkbox"/> INDEX <input checked="" type="checkbox"/> DROP <input checked="" type="checkbox"/> CREATE TEMPORARY TABLES <input checked="" type="checkbox"/> SHOW VIEW <input checked="" type="checkbox"/> CREATE ROUTINE <input checked="" type="checkbox"/> ALTER ROUTINE	<input type="checkbox"/> GRANT <input checked="" type="checkbox"/> LOCK TABLES <input checked="" type="checkbox"/> REFERENCES

In the end, the database named media\_wiki is created as shown in the second row.

Database	Collation	Action
information_schema	utf8_general_ci	<input type="button"/> Check privileges
media_wiki	utf8mb4_general_ci	<input type="button"/> Check privileges
mysql	utf8mb4_general_ci	<input type="button"/> Check privileges
performance_schema	utf8_general_ci	<input type="button"/> Check privileges
phpmyadmin	utf8_bin	<input type="button"/> Check privileges
test	utf8mb4_general_ci	<input type="button"/> Check privileges

Before proceeding with the media-wiki we made sure that 'max\_execution\_time=600' and 'file\_upload=On'.



```

max_execution_time=600
file_uploads=On

```

After editing the php.ini file, we downloaded the media-wiki and saved it to the new folder named mywiki, in the htdocs folder. Hence, while connecting to the localhost the web browser redirected us to the media-wiki login page, asking us to create our first wiki. And we followed the following steps:

1. We made sure to specify the Database type, as MySQL or any compatible one.
2. We named the database host as localhost
3. The database name is given as media\_wiki
4. Database user and password which was created in the above steps is used in this process

**Database type:**

- MariaDB, MySQL, or compatible
- SQLite

• Complete!    • Restart installation

**MariaDB/MySQL settings**

**Database host:** [help](#) localhost

Identify this wiki

**Database name (no hyphens):** [help](#) media\_wiki

**Database table prefix (no hyphens):** [help](#)

User account for installation

**Database username:** [help](#) wikiuser

**Database password:** [help](#)

For the next step, we named the wiki as first\_wiki and created a new username for the administrator account as shown:

Name

**Name of wiki:** [help](#) first\_wiki

**Project namespace:** [help](#)

- Same as the wiki name: First\_wiki
- Project
- Other (specify)

Administrator account

**Your username:** [help](#) admin

**Password:**

**Password again:**

**Email address:** [help](#) imjagratisharma@gmail.com

After performing the installation steps, it showed up with this window.

## MediaWiki 1.34.0 installation

Install

- Setting up database... done
- Creating tables... done
- Creating database user... done
- Populating default interwiki table... done
- Initializing statistics... done
- Generating secret keys... done
- Prevent running unneeded updates... done
- Creating administrator user account... done
- Creating main page with default content... done
- Database was successfully set up

[Continue →](#)

After clicking continue, It redirected us to download a “LocationSettings.php” file and we saved this file to the mywiki folder where we already have the whole files and folders of the media-wiki setup which we downloaded before.

## MediaWiki 1.34.0 installation

Complete!

 **Congratulations!** You have installed MediaWiki.

The installer has generated a `LocalSettings.php` file. It contains all your configuration.

You will need to download it and put it in the base of your wiki installation (the same directory as `index.php`). The download should have started automatically.

If the download was not offered, or if you cancelled it, you can restart the download by clicking the link below:

 [Download LocalSettings.php](#)

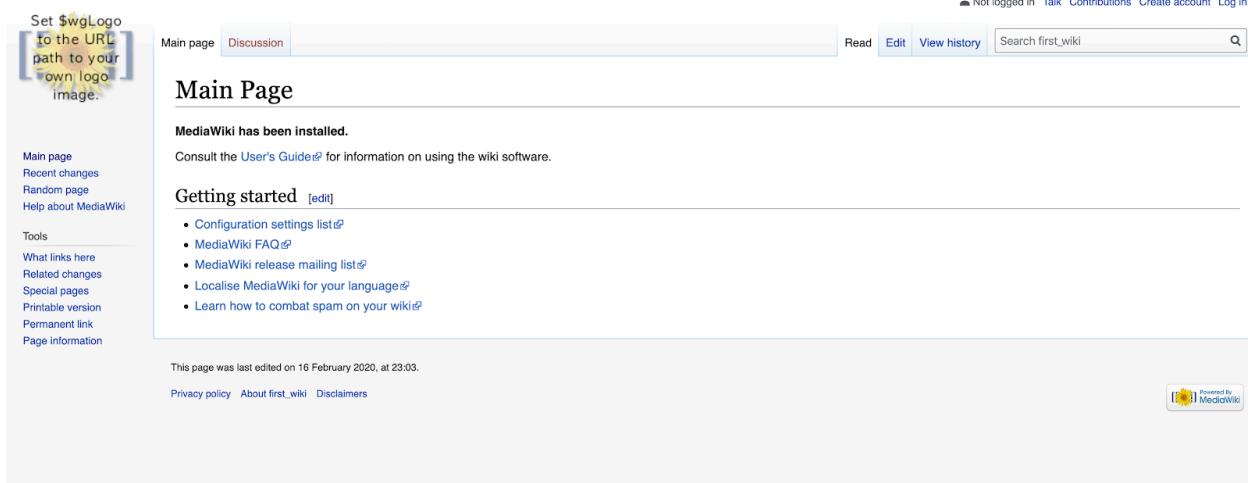
**Note:** If you do not do this now, this generated configuration file will not be available to you later if you exit the installation without downloading it.

When that has been done, you can [enter your wiki](#).

 Did you know that your wiki supports [extensions](#)?

You can browse [extensions by category](#).

After saving the LocalSetting.php, and in the web browser, we typed the localhost and it was redirected to this site as shown.



Set \$wgLogo to the URL path to your own logo image.

Main page Discussion

Main page has been installed.

MediaWiki has been installed.

Consult the [User's Guide](#) for information on using the wiki software.

Getting started [edit]

- Configuration settings list
- MediaWiki FAQ
- MediaWiki release mailing list
- Localise MediaWiki for your language
- Learn how to combat spam on your wiki

This page was last edited on 16 February 2020, at 23:03.

Privacy policy About first\_wiki Disclaimers

Powered by MediaWiki

We logged into the page using Admin, the account which we created in the media-wiki setup.



Set \$wgLogo to the URL path to your own logo image.

Main page Discussion

Main page has been installed.

MediaWiki has been installed.

Consult the [User's Guide](#) for information on using the wiki software.

Getting started [edit]

- Configuration settings list
- MediaWiki FAQ
- MediaWiki release mailing list
- Localise MediaWiki for your language
- Learn how to combat spam on your wiki

Read Edit View history More Search first\_wiki

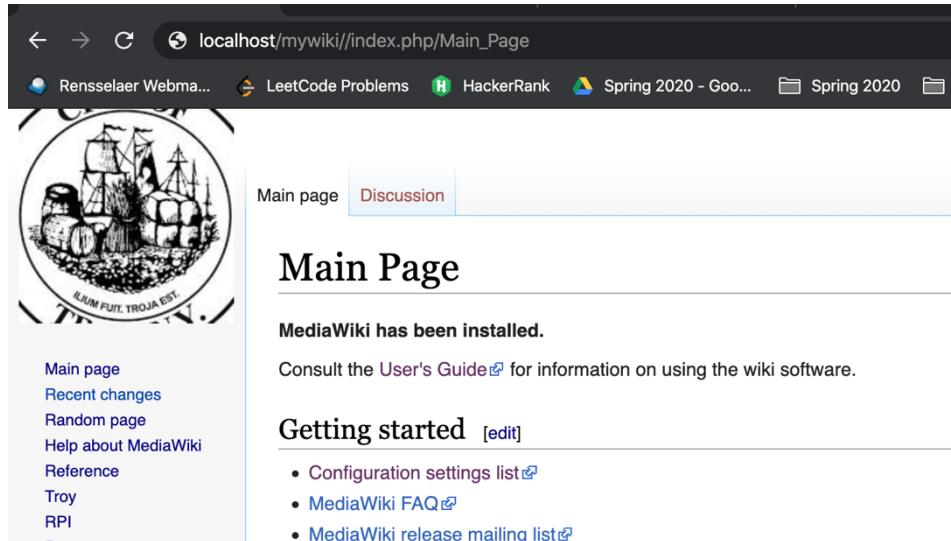
Admin Talk Preferences Watchlist Contributions Log out

Powered by MediaWiki

## 4. Part 1

4.1. Create a domain name for your wiki site (map your localhost IP address)

The above installation is what we used for creating the domain name and mapping the wiki site



A screenshot of a web browser showing a MediaWiki installation on a local host. The URL in the address bar is `localhost/mywiki/index.php/Main_Page`. The page title is "Main Page". The page content includes a circular logo on the left with the text "ILIJUM FUIT. TROJA EST." around the bottom. Below the logo is a sidebar with links: "Main page", "Recent changes", "Random page", "Help about MediaWiki", "Reference", "Troy", and "RPI". The main content area has sections for "MediaWiki has been installed." and "Getting started".

4.2. Use a new logo image for your wiki site-

Here is the logo for the wiki main web page



For uploading the image as a logo. We followed the following steps:

1. Uploaded a new image to resources->assets
2. We updated the logo in the LocationSettings.php as shown

```
## The URL path to static resources (images, scripts, etc)
$wgResourceBasePath = $wgScriptPath;

## The URL path to the logo. Make sure you change this from the
## or else you'll overwrite your logo when you upgrade!
$wgLogo = "$wgResourceBasePath/resources/assets/troy.jpeg";

$wgTmpDirectory = "/Applications/XAMPP/xamppfiles/htdocs/mywiki
images/temp";
```

#### 4.3. Be able to create login accounts for users

We were able to login to the users as shown:

Special page

## Log in

Username

Password

Keep me logged in

[Help with logging in](#)

[Forgot your password?](#)



#### 4.4. Develop several wiki pages

We created different wiki pages, by just typing the name of the wiki page in the search bar and hitting enter.

Some of the wiki pages are shown below:

Page Discussion Read Edit View history

Troy

## Introduction [ edit ]

Troy is a city in the U.S. state of New York and the seat of Rensselaer County. The city is located on the western edge of Rensselaer County, with close ties to the nearby cities of Albany and Schenectady, forming a region popularly called the Capital District. The city is one of the three counties in the Albany metropolitan statistical area (MSA), which has a population of 1,170,483. At the 2010 census, the population of Troy was 50,129. Troy's motto is *lignum fuit. Troja est, unde fuit*.

Images:troy.jpg

**Contents** [hide]

1 Introduction

2 CHARTER OF THE PROJECT

Rensselaer Polytechnic Institute

## Contents [hide]

## About Rensselaer [ edit ]

With 7,900 students and more than 100,000 living alumni, Rensselaer is addressing the global challenges facing the 21st century. Rensselaer Polytechnic Institute (/rənseɪlər/) (RPI) is a private research university in Troy, New York, with additional campuses in Stephen van Rensselaer and Amos Eaton for the "application of science to the common purposes of life" and is the oldest technol American colleges or departments of applied sciences were modeled after Rensselaer. I- Built on a hillside, RPI's 265-acre (107 h

# Restaurants in Troy

## Famous Restaurants in Troy [\[edit\]](#)

Go back to Troy: [troy](#)

Categories: [Italian](#) | [Indian](#) | [Chinese](#) | [Mexican](#) | [American](#) | [Thai](#) | [Japanese](#) | [Pizza](#)

This page was last edited on 19 February 2020, at 22:06.

[Privacy policy](#) [About first\\_wiki](#) [Disclaimers](#)

# Category:Italian

## Italian Restaurants in Troy [\[edit\]](#)

1. Testo's Restaurant & Pizza
2. De Fazio's Pizzeria
3. Lo Porto Ristorante Caffe
4. Verdile's Restaurant
5. The Purple Pub
6. Moscatiello's Italian Restaurant
7. Red Front Restaurant & Tavern
8. Bacchus
9. Notty Pine Tavern
10. Little Pecks
11. Pizza Da Vinci
12. Dino's Restaurant and Pub
13. Valente's Restaurant

## 4.5. Use tables to display some contents

We created different tables as the tables are collapsible as well as sortable.

### Introduction [\[edit\]](#)

As a part of our Software Development Homework 3, we created these wiki pages. This assignment is done in a group of 2 and the contributors

Name	Email
Abhishek Gupta	<a href="mailto:guptaa10@rpi.edu">guptaa10@rpi.edu</a>
Jagrati Sharma	<a href="mailto:sharmaj@rpi.edu">sharmaj@rpi.edu</a>

Table: [\[edit\]](#)

Major	Degree Offered
Architectural Sciences	M.S., Ph.D.
Architecture	B.Arch., M.Arch.
Building Science	B.S. B.S.
Lighting	M.S.

#### 4.6. Display different heading levels

Here is the different levels of content for the wiki site. It was automatically created by the wiki, when the heading increased 4 levels

<b>Contents</b> [hide]	
1	<a href="#">Introduction</a>
2	<a href="#">Places to Visit in Troy</a>
2.1	<a href="#">Troy Waterfront Farmers' Market</a>
2.2	<a href="#">Joe Bruno Stadium</a>
2.3	<a href="#">Tri-City Valley Cats</a>
2.4	<a href="#">Oakwood Cemetery</a>
2.5	<a href="#">Burden Iron Works Museum</a>
2.6	<a href="#">Hart Cluett Museum</a>
2.7	<a href="#">The Children's Museum of Science and Technology (The Junior Museum)</a>
2.8	<a href="#">EMPAC - Experimental Media and Performing Arts Center</a>
2.9	<a href="#">Houston Field House</a>
2.10	<a href="#">Capital District Garden &amp; Flower Show</a>
2.11	<a href="#">Prospect Park</a>
3	<a href="#">Other things you can do in Troy</a>

4.7. Have links to your internal wiki pages  
We have several links to the internal wiki page as shown

## Other things you can do in Troy [\[ edit \]](#)

---

1. Visit [Rensselaer Polytechnic Institute](#)
2. [Restaurants in Troy](#)

4.8. Have links to external http sites

We also have links to the external pages as shown

## Places to Visit in Troy [\[ edit \]](#)

---

### **Troy Waterfront Farmers' Market** [\[ edit \]](#)

Open year-round every Saturday, rain or shine, from 9 a.m. till parking in the Uncle Sam garage.

### **Joe Bruno Stadium** [\[ edit \]](#)

Joseph Bruno Stadium is a stadium located on the campus of I member of the historic New York–Penn League.

### **Tri-City Valley Cats** [\[ edit \]](#)

The Tri-City ValleyCats are a Minor League Baseball team bas League Baseball club.

### **Oakwood Cemetery** [\[ edit \]](#)

Oakwood Cemetery is a nonsectarian rural cemetery in northe that deals strictly with the operation of the cemetery.

### **Burden Iron Works Museum** [\[ edit \]](#)

The Burden Iron Works Museum is open to the public. We're h

## 4.9. Show your Wiki page history (change history)

Here is the wiki page history

### Revision history of "Troy"

[View logs for this page](#)

#### ▼ Filter revisions

Diff selection: Mark the radio boxes of the revisions to compare and hit enter or the button at the bottom.

Legend: (cur) = difference with latest revision, (prev) = difference with preceding revision, m = minor edit.

Compare selected revisions

- (cur | prev)  22:31, 19 February 2020 Admin (talk | contribs | block) .. (5,791 bytes) (-8) .. (→Places to Visit in Troy) (rollback more than 1000 bytes) (undo)
- (cur | prev)  22:31, 19 February 2020 Admin (talk | contribs | block) .. (5,799 bytes) (+9) .. (→Introduction) (undo)
- (cur | prev)  22:30, 19 February 2020 Admin (talk | contribs | block) .. (5,790 bytes) (+10) .. (→Places to Visit in Troy) (undo)
- (cur | prev)  22:28, 19 February 2020 Admin (talk | contribs | block) .. (5,780 bytes) (-153) .. (undo)
- (cur | prev)  22:28, 19 February 2020 Admin (talk | contribs | block) .. (5,933 bytes) (+154) .. (undo)
- (cur | prev)  22:06, 19 February 2020 Admin (talk | contribs | block) .. (5,779 bytes) (+7) .. (→Other things you can do in Troy) (undo)
- (cur | prev)  20:30, 19 February 2020 Admin (talk | contribs | block) .. (5,772 bytes) (-65) .. (→Introduction) (undo)
- (cur | prev)  20:29, 19 February 2020 Admin (talk | contribs | block) .. (5,837 bytes) (+52) .. (→Introduction) (undo)
- (cur | prev)  20:28, 19 February 2020 Admin (talk | contribs | block) .. (5,785 bytes) (+2) .. (→Introduction) (undo)
- (cur | prev)  20:22, 19 February 2020 Admin (talk | contribs | block) .. (5,783 bytes) (+2) .. (→Introduction) (undo)
- (cur | prev)  20:21, 19 February 2020 Admin (talk | contribs | block) .. (5,781 bytes) (-2) .. (→Introduction) (undo)
- (cur | prev)  20:18, 19 February 2020 Admin (talk | contribs | block) .. (5,783 bytes) (-44) .. (undo)
- (cur | prev)  20:18, 19 February 2020 Admin (talk | contribs | block) .. (5,827 bytes) (+1) .. (→Introduction) (undo)
- (cur | prev)  20:17, 19 February 2020 ::1 (talk | block) .. (5,826 bytes) (+76) .. (→Introduction) (undo)
- (cur | prev)  07:54, 19 February 2020 Admin (talk | contribs | block) .. (5,750 bytes) (+2) .. (→Other things you can do in Troy) (undo)

## 4.10. Be able to upload files/pictures (add the attachment)

We uploaded image to the wiki page as  
Troy

### Introduction [edit]

Troy is a city in the U.S. state of New York and the seat of Rensselaer County. The city is located on the western edge of Rensselaer County and on the eastern bank of the Hudson River. Troy has close ties to the nearby cities of Albany and Schenectady, forming a region popularly called the Capital District. The city is one of the three major centers for the Albany Metropolitan Statistical Area (MSA), which has a population of 1,170,483. At the 2010 census, the population of Troy was 50,129. Troy's motto is Ilium fuit, Troja est, which means "Ilium was, Troy, is".

Contents [hide]	
1	Introduction
2	Places to Visit in Troy
2.1	Troy Waterfront Farmers' Market
2.2	Joe Bruno Stadium
2.3	Tri-City Valley Cats
2.4	Oakwood Cemetery
2.5	Burden Iron Works Museum
2.6	Hart Cluett Museum
2.7	The Children's Museum of Science and Technology (The Junior Museum)
2.8	EMPAC - Experimental Media and Performing Arts Center
2.9	Houston Field House
2.10	Capital District Garden & Flower Show
2.11	Prospect Park



Troy

For uploading the image we first enabled the extension, of wiki editors as shown

```
# Enabled skins.
# The following skins were automatically enabled:
wfLoadSkin( 'MonoBook' );
wfLoadSkin( 'Timeless' );
wfLoadSkin( 'Vector' );

wfLoadExtension( 'CollapsibleVector' );
wfLoadExtension( 'WikiEditor' );

# End of automatically generated settings.
# Add more configuration options below.
```

Here is the code which we added in the locationSettings.php file

```
# MySQL specific settings
$wgDBprefix = "";

# MySQL table options to use during installation or update
$wgDBTableOptions = "ENGINE=InnoDB, DEFAULT CHARSET=binary";

$wgGroupPermissions['user'][['upload']] = true;

## Shared memory settings
$wgMainCacheType = CACHE_NONE;
$wgMemCachedServers = [];

## To enable image uploads, make sure the 'images' directory
## is writable, then set this to true:
$wgEnableUploads = true;
#$wgUseImageMagick = true;
#$wgImageMagickConvertCommand = "/usr/bin/convert";

# InstantCommons allows wiki to use images from https://commons.wikimedia.org
$wgUseInstantCommons = false;

# Periodically send a pingback to https://www.mediawiki.org/ with basic data
# about this MediaWiki instance. The Wikimedia Foundation shares this data
# with MediaWiki developers to help guide future development efforts.
$wgPingback = true;

$wgFileExtensions = array( 'png', 'gif', 'jpg', 'jpeg', 'doc',
    'xls', 'mpp', 'pdf', 'ppt', 'tiff', 'bmp', 'docx', 'xlsx',
    'pptx', 'ps', 'odt', 'ods', 'odp', 'odg'
);

## $wgUploadDirectory = "$wgScriptPath//images";
$wgHashedUploadDirector = true;

$wgRateLimits['edit'][['newbie']] = array( 4, 60 );

## If you use ImageMagick (or any other shell command) on a
```

We also added a pdf to the wiki page as shown:

- 3. Restaurants in Troy [|Restaurants\\_in\\_Troy](#)
- 4. Media Wiki Help [|Media\\_Wiki\\_Help](#)
- 5. Collapsible Side Bar [|Collapsible\\_Side\\_Bar](#)
- 6. Video reference [|Video\\_reference](#)
- 7. [File:HW 3.pdf](#) PDF of the homework given in Software development

We also added gif to our website as shown,



#### 4.11. Search your Wiki site

We were able to search on wiki site, as shown

##### Search results

[Content pages](#) [Multimedia](#) [Everything](#) [Advanced](#)

Create the page "**Rpi**" on this wiki! See also the search results found.

**References**

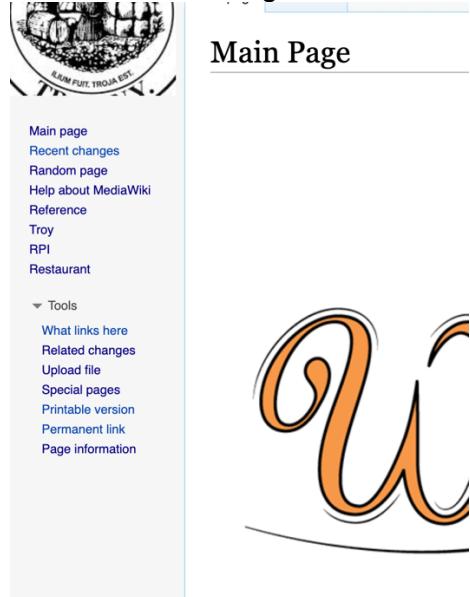
#[https://www.rpi.edu/ RPI Website](https://www.rpi.edu/)  
448 bytes (63 words) - 03:05, 20 February 2020

**Rensselaer Polytechnic Institute**  
...and to change the world. Rensselaer Polytechnic Institute (*Rensselaer*) (**RPI**) is a private research university in Troy, New York, with additional campus built on a hillside. RPI's 265-acre (107 ha) campus overlooks the city of Troy and the Hudson River  
8 KB (1,225 words) - 21:29, 19 February 2020

**Troy**  
===[https://empac.rpi.edu/ EMPAC - Experimental Media and Performing Arts Center]==...-purpose arena located on the campus of Rensselaer Polytechnic Institute (**RPI**) in Troy, New York. It is the nation's third-oldest college hockey rink, be  
6 KB (897 words) - 22:31, 19 February 2020

#### 4.12. Add more items to the navigation sidebar

We added new things in our sidebar as shown:



We did this by going to mediawiki:sidebar in the search bar

<http://localhost/mywiki/index.php/MediaWiki:Sidebar>

Message [Discussion](#)

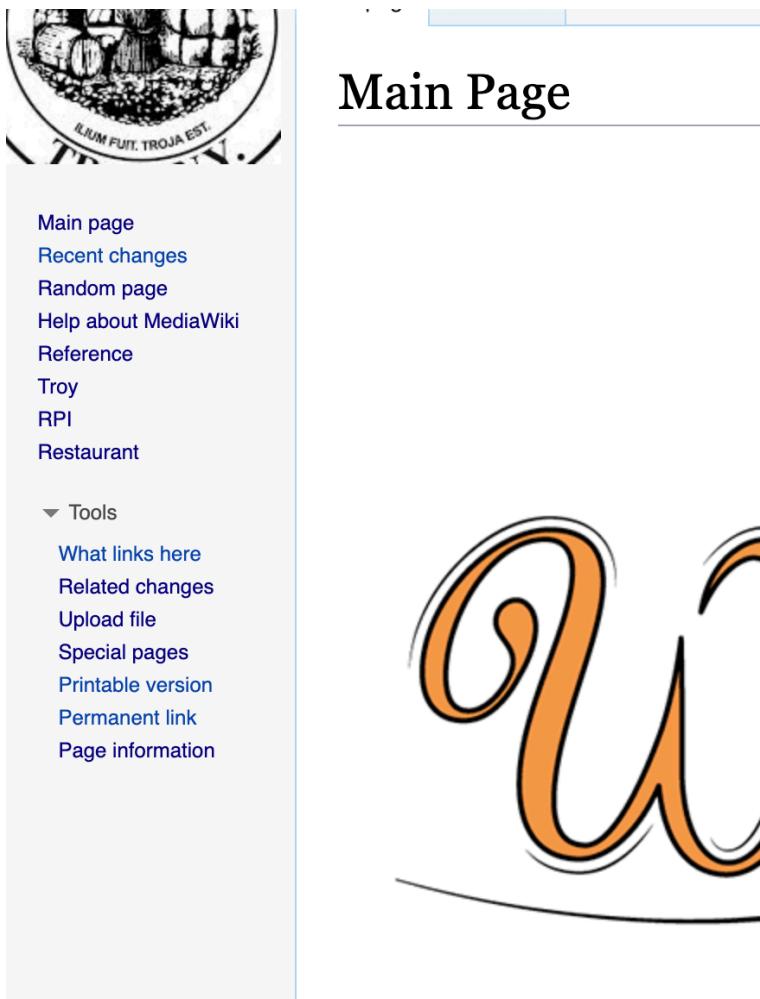
---

## MediaWiki:Sidebar

---

- navigation
  - mainpage|mainpage-description
  - recentchanges|url|recentchanges
  - randompage|url|randompage
  - helppage|help-mediawiki
  - References|Reference
  - Troy|Troy
  - Rensselaer\_Polytechnic\_Institute|RPI
  - Restaurants\_in\_Troy|Restaurant
- SEARCH
- TOOLBOX
- LANGUAGES

## 4.13. Have collapsible/expandable items on the navigation sidebar



The screenshot shows a MediaWiki main page. At the top is a decorative banner with a circular emblem on the left and the text 'Main Page' in the center. Below the banner, the page title 'Main Page' is displayed in a large, bold, serif font. To the left of the main content area is a sidebar with a light gray background. The sidebar features a circular logo at the top. Below the logo, a list of links is presented in a hierarchical structure. The first section contains links: 'Main page', 'Recent changes', 'Random page', 'Help about MediaWiki', 'Reference', 'Troy', 'RPI', and 'Restaurant'. A '▼ Tools' section follows, containing links: 'What links here', 'Related changes', 'Upload file', 'Special pages', 'Printable version', 'Permanent link', and 'Page information'. The main content area to the right of the sidebar is currently empty, showing only a decorative orange and black stylized letter 'W' at the bottom.

For adding the collapsible sidebar we included the extension collapsible vector to the locationSettings.php. After downloading the collapsible vector from wiki help

```
# Enabled skins.
# The following skins were automatically enabled:
wfLoadSkin( 'MonoBook' );
wfLoadSkin( 'Timeless' );
wfLoadSkin( 'Vector' );

wfLoadExtension( 'CollapsibleVector' );
wfLoadExtension( 'WikiEditor' );

# End of automatically generated settings.
# Add more configuration options below.
```

#### 4.14. Export your wiki database in SQL so it can be exported to other machines/databases

For exporting the wiki database in SQL, we went to the phpMyAdmin and just exported the localhost.sql. And the file is attached with the uploads.

## 5. Part 2

To start off with this part, we created a database(mywiki) under one of my user accounts(mywiki) on phpMyAdmin. We then created a table(Personal\_Data) under the same database that will store my information. Also, we will fetch the information from the same table and display it over my browser.

Server: localhost » Database: mywiki » Table: Personal\_Data

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	<b>ID</b>	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
2	<b>Name</b>	varchar(20)	utf8mb4_general_ci		No	None			Change  Drop  More
3	<b>Email</b>	varchar(20)	utf8mb4_general_ci		No	None			Change  Drop  More
4	<b>University</b>	varchar(20)	utf8mb4_general_ci		No	None			Change  Drop  More

Check all With selected:

1 column(s) after University

To connect to a MySQL database we first created an HTML form(index.html) that will show up a form over my webpage with fields of Name, Email, University, and a submit button. Along with the HTML file, we created a PHP file(insert.php) to set up the database connection and connect my HTML page with the MySQL database.

Insering form data in MySQL database using PHP

Name:

Email:

University:

The data that we enter through my web form gets automatically entered into my database when the MySQL connection is up and running.

+ Options

			ID	Name	Email	University
<input type="checkbox"/>	 Edit	 Copy	 Delete	1	Abhishek	guptaa10@rpi.edu
<input type="checkbox"/>	 Edit	 Copy	 Delete	2	Jagrati	sdsdds
<input type="checkbox"/>	 Edit	 Copy	 Delete	3	Vrishti	vristi@gmail.com
<input type="checkbox"/>	 Edit	 Copy	 Delete	5	Anish	sethiaa@rpi.edu

Now, to fetch data from my database and display it over the web, we created another PHP webpage(test.php) through which we displayed the data, over the browser, in the form of a table. We also added some styling through CSS to my PHP file to make the data look more organized.

<b>Id</b>	<b>Username</b>	<b>Email</b>	<b>University</b>
1	Abhishek	guptaa10@rpi.edu	RPI
2	Jagrati	jagrati@gmail.com	RPI
3	Vrishti	vristi@gmail.com	RPI
5	Anish	sethiaa@rpi.edu	RPI

## 6. Code

As we are working in a group of 2, We created 2 PHP files. One to upload the content and one to retrieve the content

### Code for index.html

```

<html>
<head>
<title>Inserting form data in MySQL database using PHP</title>
</head>
<body>

<form action="insert.php" method="post">
    Name: <input type="text" name="username">
    <br>
    Email: <input type="text" name="email">
    <br>
    University: <input type="text" name="university">
    <br>
    <input type="submit" value="Insert">

</form>

</body>

```

**Code for insert.php**

```

<?php

$con = mysqli_connect('127.0.0.1', 'wikiuser', 'jagratisharma');

if(!$con)
{
    echo 'Not Connected to server';
}

if(!mysqli_select_db($con, 'media_wiki'))
{
    echo 'Database not selected';
}

$Name = $_POST['username'];
$Email = $_POST['email'];
$University = $_POST['university'];

$sql = "INSERT INTO Personal_Data (Name,Email,University) VALUES
('{$Name}', '{$Email}', '{$University}')";

if(!mysqli_query($con,$sql))
{
    echo 'Not Inserted';
}

else
{
    echo 'Inserted';
}

header("refresh:2; url=index.html");

?>

```

**Code for test.php**

```

<!DOCTYPE html>
<html>
<head>
<title>Table with database</title>
<style>
table {
border-collapse: collapse;
width: 100%;

```

```

color: #588c7e;
font-family: monospace;
font-size: 25px;
text-align: left;
}
th {
background-color: #588c7e;
color: white;
}
tr:nth-child(even) {background-color: #f2f2f2}
</style>
</head>
<body>
<table>
<tr>
<th>Id</th>
<th>Username</th>
<th>Password</th>
</tr>
<?php
$conn = mysqli_connect("localhost", "wikiuser", "jagratisharma", "media_wiki");
// Check connection
if ($conn->connect_error) {
die("Connection failed: " . $conn->connect_error);
}
$sql = "SELECT ID, Name, Email FROM Personal_Data";
$result = $conn->query($sql);

if ($result -> num_rows > 0) {
// output data of each row
while($row = $result -> fetch_assoc()) {
echo "<tr><td>" . $row["ID"] . "</td><td>" . $row["Name"] . "</td><td>" .
$row["Email"]. "</td></tr>";
}
echo "</table>";
} else { echo "0 results"; }
$conn->close();
?>
</table>
</body>
</html>

```

### Code for index1.html

```

<html>
<head>
<title>Inserting form data in MySQL database using PHP</title>
</head>
<body>

<form action="insert1.php" method="post">
    Name: <input type="text" name="username">

```

```

        </br>
        Course: <input type="text" name="course">
        </br>
        Course Number: <input type="text" name="num">
        </br>
        <input type="submit" value="Insert">

</form>

</body>

```

**Code for insert1.php**

&lt;?php

```

$con = mysqli_connect('127.0.0.1', 'wikiuser', 'jagratisharma');

if(!$con)
{
    echo 'Not Connected to server';
}

if(!mysqli_select_db($con, 'media_wiki'))
{
    echo 'Database not selected';
}

$Name = $_POST['username'];
$Course = $_POST['course'];
$Num = $_POST['num'];

$sql = "INSERT INTO Course_Data (Name,Course,Num) VALUES
('{$Name}', '{$Course}', '{$Num}')";

if(!mysqli_query($con,$sql))
{
    echo 'Not Inserted';
}

else
{
    echo 'Inserted';
}

header("refresh:1; url=index1.html");

```

?>

### Code for test1.php

```
<!DOCTYPE html>
<html>
<head>
<title>Table with database</title>
<style>
table {
border-collapse: collapse;
width: 100%;
color: #588c7e;
font-family: monospace;
font-size: 25px;
text-align: left;
}
th {
background-color: #588c7e;
color: white;
}
tr:nth-child(even) {background-color: #f2f2f2}
</style>
</head>
<body>
<table>
<tr>
<th>Id</th>
<th>Username</th>
<th>Password</th>
</tr>
<?php
$conn = mysqli_connect("localhost", "wikiuser", "jagratisharma", "media_wiki");
// Check connection
if ($conn->connect_error) {
die("Connection failed: " . $conn->connect_error);
}
$sql = "SELECT ID, Name,Course, Num  FROM Course_Data";
$result = $conn->query($sql);

if ($result -> num_rows > 0) {
// output data of each row
while($row = $result -> fetch_assoc()) {
echo "<tr><td>" . $row["ID"] . "</td><td>" . $row["Name"] . "</td><td>"
```

```
. $row["Course"]. "</td></tr>" . $row["Num"]. "</td></tr>";  
}  
echo "</table>";  
} else { echo "0 results"; }  
$conn->close();  
?>  
</table>  
</body>  
</html>
```