

# **Software Development**

## **[ITWS: 6700]**

### **Homework1: Report on Personal Website**

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## 1. Website deployment environment: OS and the Web Server

I have deployed my local website on MacOS and I have user Apache Web Server to reply my website on to a local server.

I applied the following steps to create a Web Server on my MacOS

To get started, edit the Apache configuration file as root:

**sudo vi /etc/apache2/httpd.conf**

Enable PHP by uncommenting line 177, changing:

#LoadModule php7\_module libexec/apache2/libphp7.so

to

LoadModule php7\_module libexec/apache2/libphp7.so

Enable personal websites by uncommenting the following at line 174:

#LoadModule userdir\_module libexec/apache2/mod\_userdir.so

to

LoadModule userdir\_module libexec/apache2/mod\_userdir.so

and do the same at line 511:

#Include /private/etc/apache2/extra/httpd-userdir.conf

to

Include /private/etc/apache2/extra/httpd-userdir.conf

Now save and quit.

Open the file you just enabled above with:

**sudo vi /etc/apache2/extra/httpd-userdir.conf**

and uncomment the following at line 16:

#Include /private/etc/apache2/users/\*.conf

to

Include /private/etc/apache2/users/\*.conf

Save and exit.

Turn on the Apache httpd service by running the following command in the Terminal:

**sudo launchctl load -w /System/Library/LaunchDaemons/org.apache.httpd.plist**

In Safari, navigate to your web site with the following address:

**http://localhost/**

It should say: **It works!**

## 2. The language and the IDE used for development

For developing my website I used PHP as a general-purpose scripting language along with CSS for styling my webpages. Also, I have used NetbeansIDE for development of my website.

## 3. Website domain name and implementing the domain mapping

I have set the domain name of my website as “mypersonalwebsite”, changing it from localhost.

To implement the domain mapping, I performed the following steps:

- To change the website domain name, go to the hosts file and add the domain name, that you want to set, to the host file.
- Navigate to the path “/private/etc/hosts” to reach the host folder in Mac.

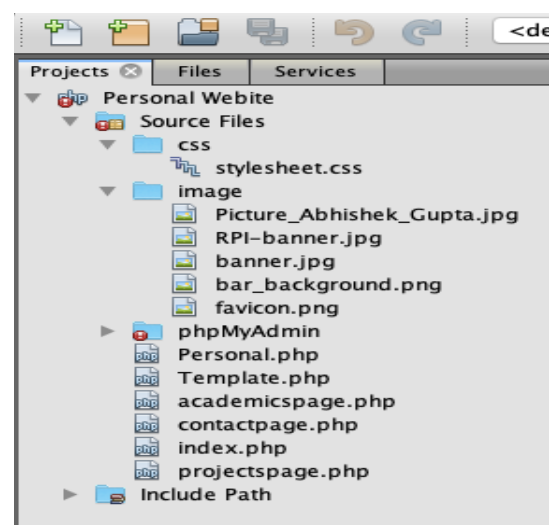
```
##
# Host Database
#
# localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
##
127.0.0.1        localhost
127.0.0.1        mypersonalwebsite
255.255.255.255  broadcasthost
::1              localhost
```

- In my case, I set the domain name to “mypersonalwebsite”.

## 4. The Website deployment directory structure

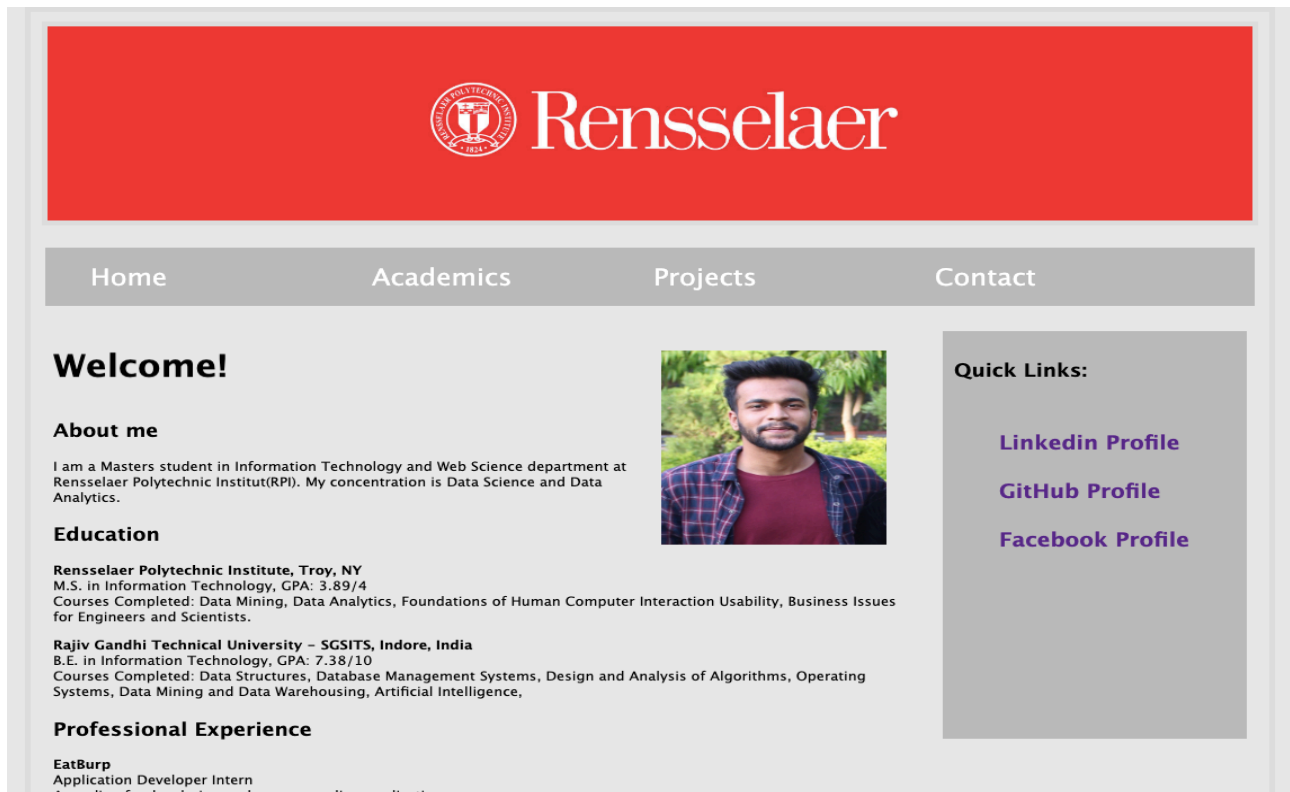
In my case, the website directory structure looks like as shown in the screenshot below:

- All the CSS files are inside the css folder.
- All the images are stored in the folder name image.
- All the php files are inside the folder PersonalWebsite.

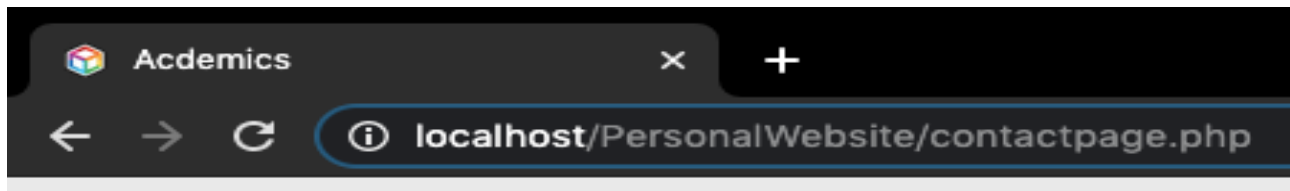


## 5. Screenshots of my website along with some interesting/extra features.

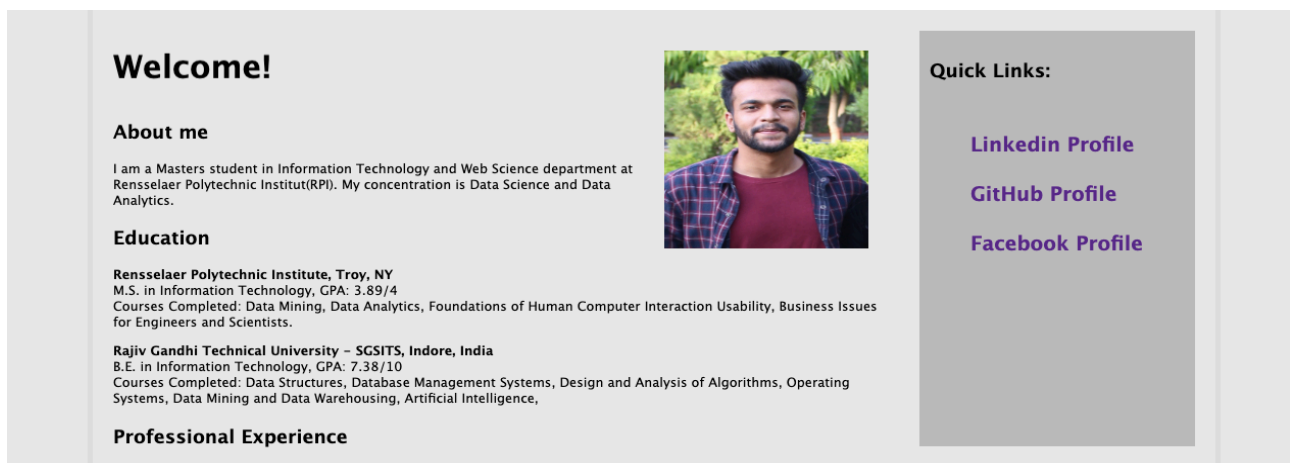
- This is how the home page of my website looks like.



- I added a favicon icon to my personal website.



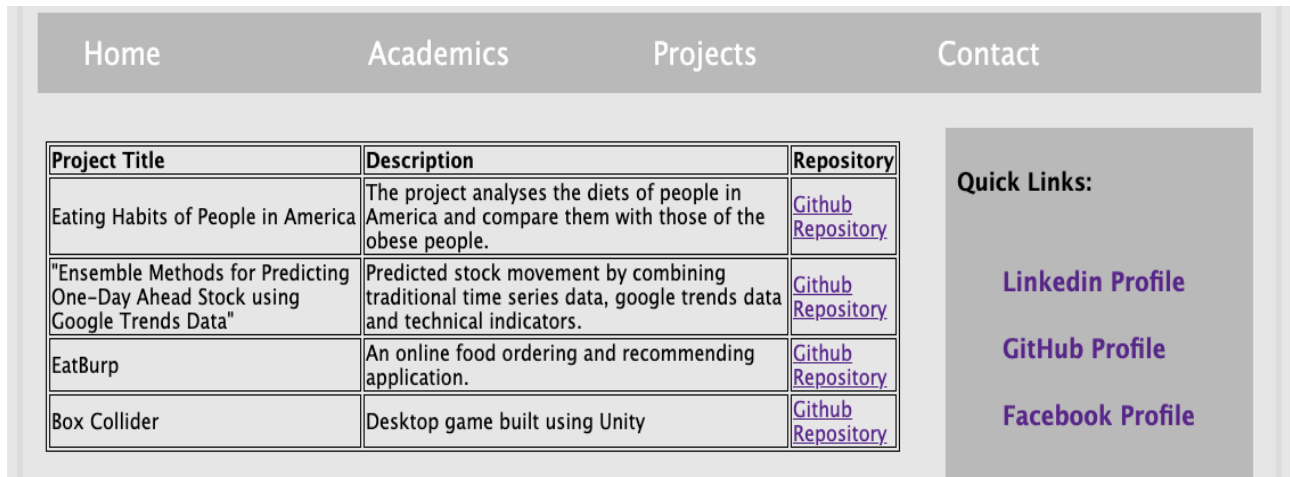
- I added a side bar to my website and added some quick links to navigate faster through the website.



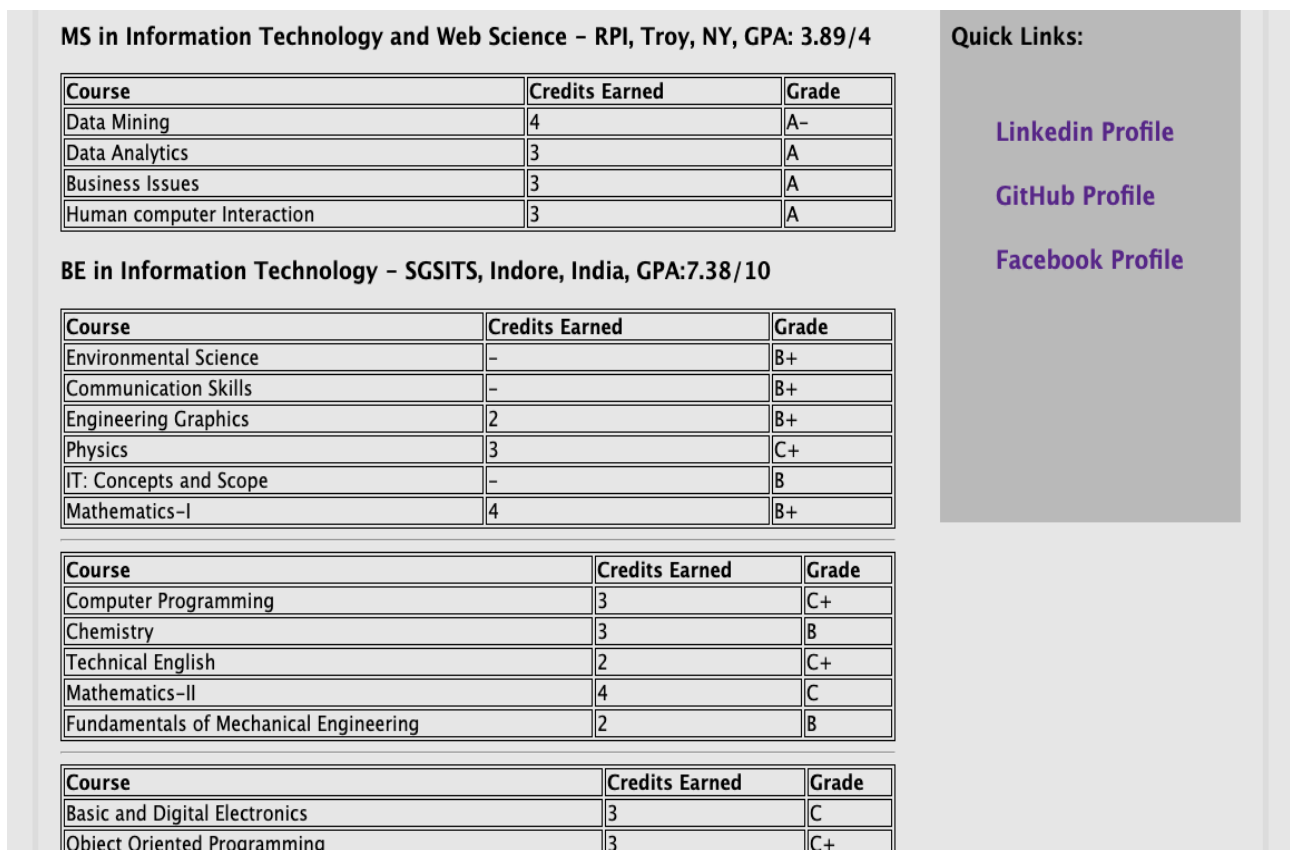
- I added a navigation bar to navigate between different pages of my website



- I have added my academic records under the Academics tab to show my academic experience.



- I have added my projects along with the link to their respective Github repositories under the Projects tab.



- I have added my contact information under Contact tab and also I have made use of Google maps

**Contact Information:**

RPI Email: [guptaa10@rpi.edu](mailto:guptaa10@rpi.edu)

Personal Email: [gupta2910abhi@gmail.com](mailto:gupta2910abhi@gmail.com)

Phone: (518)-545-9572

Address: 89 14th St, Troy, NY

**Quick Links:**

[Linkedin Profile](#)

[GitHub Profile](#)

[Facebook Profile](#)

to show my Address on the map for easy navigation.

- Lastly, I have also provided links to my social websites for people to reach out to me easily.

**Social Media:**

- [Linkedin](#)
- [GitHub](#)
- [Facebook](#)
- [Instagram](#)

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