

Final Project CSIT 337 Spring 2025 Team Project

In this project, you will design a fully functional web site. You shall choose your own web site application.

For example, you might want to do the following among many others:

- (1) Design an online e-store to allow customers to do online shopping.
- (2) Develop on-line services such as on-line banking system that allow user to do online transaction.
- (3) Develop an online conference registration system.
- (4) Develop an online learning system.
- (5) Design an online homework handling system like Canvas but in small scale.
- (6) Provide online services that require intelligent component such as an expert system inference engine to help customers' needs in various applications. For instance, financial application system which provide an online expert to help investors to allocate money to various investments.
- (7) A MSU social network that link MSU students together, a small scale Facebook
- (8) A question-and-answer site for CS student to exchange solutions and ideas on various CS related topics
- (9) A price comparison web site that help users to choose the best quality but reasonable price on various products
- (10) Others that are related to web site design.

Let your **TA** know about what your topic is on **Check Point 1** due date. Use **MVC** pattern to design your web site is encouraged. Use the skills you have acquired so far to develop your web site.

For the front-end user interface, you can use JavaScript, cascade style sheet, HTML, and Bootstrap. For the middle tier, you will use PHP. For the back-end data processes, use MySQL as the database server. For web server, use XAMPP's Apache. Your project shall be able to be deployed to XAMPP and can run without any compatible problem. Go to internet to download XAMPP. XAMPP can be used on both Mac and Windows. It contains Apache web server, and MySQL Database server. Make sure it is portable and make sure all the links you use are relative links and not link to cloud or your computer folder. It may be connected to some other sites though. For example, if you use images which are on other web sites. It is recommended to put all images your website use on your own web site.

The project requires team-work of **at most four people**. A final **written report** is required in order to pass the project. To work alone is discouraged. Talk to your **TA** if you definitively need to work alone due to any hardship.

Notes

1. For copyright concern, you should **develop your own web site**. **Do not copy** web site from the Internet like GitHub. Do not use web site that was designed by you at your work (for it is copy-righted). Failure to observe the copy-right issue may fail your grade. Please direct any comment to your instructor/TA.
2. Implement web pages for **general users** as well as web pages for **administrator**. An admin can login into the system to perform administration work, depends on your application, an admin can delete an account, remove user, or add new product, delete a product, modify price, etc.).
3. **Do not** use *absolute URL* path when forwarding unless connect to web pages of other web sites.
4. There are **TWO** check points for this project before the final submission. The details will be handout separately

Final Project Submission

A. Final project report (A pdf file or word file)

It contains the following

A final report shall contain the following (follow the order; start a new page for each item.)

1. A **Title page**. Title page must contain the name of the project (website) and **name of the team**, and **leader of the team**, and the names of members of the team. List section number of each member. If co-leader then list all leaders' names.
2. **Team meeting logs**: list **how**, **where**, **who**, and **when** you meet and describe of meeting content includes any action item names and status (**what**). Team leader is responsible to keep track of all activities and action task status.
3. **Contribution sheet**: it is a page that describes the contribution of each team members (what has been done by whom) on this project **and** the effort percentages. Team leader can include contribution such as organize meeting, and keep tracking progress etc.
4. A **Project summary** page that includes project mission statement (the description and purpose of the project). Can include some **Check Point One** content here.
5. The **Table of content**.
6. The UI/UX wireframes. Your original sketch design of all views. You can copy and paste views of your **Check Point One** stuff here.
7. **User manual**. Document that describe the features and how to use your web site.
8. All the programs **Source code** files (copy and paste here, can skip if your source code files are too large). If skip, simply say "See attachment"
9. Database schema page.
 - a. Show structures of your tables of your database – diagrams or tables can do.
 - b. Copy and paste SQL script file content here.
 - c. Don't forget to create a user account and grant necessary privileges so that this user can access your database in this SQL script file. This user and its password are used to create PDO in your php source code. **Don't** use **root** user in your program.
10. Thoroughly test run of your web site. **Copy and paste all your test run screen shots**, as detail as possible, to this report. These screen shots will be used as one of the methods to evaluate the complexity of your web site.
11. A **link** to your website demonstration video on **YouTube**. It includes the presentation of your power point slides and demo of your web site.

B. Zipped folder file which contains all resources of your web site (A .zip file)

Put your web site under a folder of your *teamName* or *yourNname*. **For example**, if your name is **John Smith** then put all your program files and all subfolders if there are any into **JohnSmithProjectSource** folder. If your team name is called *Morning Coffee* and then create a *MorningCoffeeProjectSource* folder and put all files inside it. Name the default web page of your site **index.php**. Put all HTML, CSS, JavaScript, and PHP files, image files, and database sql file into this folder. Zip this folder into a zipped file

C. PowerPoint slides (A ppt or pptx file)

In your power point slides. The slides should contain

- Name of web site and its purpose. The tem members' names
- List the technologies used (css, html, php, JavaScript, MySql database, etc) to develop this web site.
- Include the web site architecture which describe how pages are related and interact with one another.
- List your web site features which are working and key screen shots

- List the features that still working on it or did not finish.
- What can be improved in the future if give more time.
- For partially working website, noted here as well. Partially working website will receive partial credit.

It is about 10 or more slides, it depends on how complicated your web site is.

D. YouTube Video information page (A pdf or word file)

Create a video that demos your web site. Upload it to YouTube (**required**). Prepare a **one-page** document, and put the YouTube link information and each team members' names and section number on it and submit this document to Canvas. You can use zoom or other online tools to create this video.

Note on your final report to Canvas shall include YT video link information as well. Submission of the video file to Canvas is not required.

Grading Criteria

- Submit all required documents and program files according to the specification
- Quality of documents and program files
- Components of your project shall include skills you learned from this class: HTML5, CSS, JavaScript, MySQL database, PHP scripts. Note use of Bootstrap is considered as using CSS and JavaScript.
- **Use of PDO when connect to database.**
- Overall appearance of your web site.
- Successful of developing of the web site (is a working web site; partial credit will be given to partially worked web site)
- PowerPoint slides and video presentation
- Peer evaluation
- Complexity of your web site: business logic, number of program pages, features of the web site, etc.

Requirements

Use PHP as server-side script language
 Use MySQL as backend database
 Use HTML, CSS, Bootstrap, and JavaScript if needed
 Documents of your project
 Comment on your code

Prepare a folder and call it **YourNameFinalProject** which contains Items A, B, C, and D mentioned above. Zip **YourNameFinalProject** into **YourNameFinalProject.zip**

What to submit: **YourNameFinalProject.zip**

Who should submit: Only the **team leader** is responsible to submit the required zipped file. I.e., **one team one submission.**

Where to submit: Canvas

When to submit: 5/4/2025 before midnight