

PROJECT: FINAL SUBMISSION

Purpose: The purpose of this Project assignment is to study, understand, and use css, html5 elements, responsive design, form, table designs, php, mysql database, security features to create a well designed website. The assignment must be prepared individually.

ASSIGNMENT DELIVERABLES:

1. at least 10 HTML pages with adequate contents
2. should use css, layout, forms, tables, menus, animation, transition
3. the html pages must use responsive CSS design layout (if the screen size is changed, the html elements will rearrange based on the screen space).
 - lower resolution images for smaller screen size and higher resolution images for larger screen size
 - use different css files based on the screen size. For example, the div elements, menu, etc will rearrange to a different layout (by using different css files) based on the screen size
4. Create a MySQL table to demonstrate login feature
 - use php script + mysql + session data.
 - allow new user creation
 - validate user by checking their password saved in the database
5. Content access control (by using php script + mysql + session data)
 - when the user is logged in then allow the user to access content (check recent orders, account information, show special member price)
6. Create a MySQL table to demonstrate shopping cart feature (by using javascript + php + mysql + cookies).
 - Add/remove function, total cost calculation, tax calculation
7. Create a MySQL table to demonstrate mock checkout
 - The user's credit card, items ordered, shipping address information needs to be saved in the MySQL database (create tables in the MySQL as needed)
 - The user's order history should be saved in the database, so that the user can see it after logging in
8. For each form based input data entry
 - incorporate client side (javascript) and server side (php script) form input data validation (if form input data is invalid, then the form would highlight the errors in red and let the user correct the errors).
 - Use php features to prevent script injection attack.
9. Use template based design (header and footer will be generated by functions + the main content will change based on the page name)
10. Bonus (optional): PayPal mock payment feature integration/implementation
 - <https://demo.paypal.com/us/demo/home>

Create a report (pdf + title page):

Create a report for this assignment and explain in detail how each requirement (use section 1 and explain how the requirement 1 was completed, use section 2 and describe how the requirement 2 was completed and so on).

Create Video Demo: Create a video and demonstrate the following in your video.

VIDEO DEMO REQUIREMENTS:

1. Describe an intro about the project
2. Describe the project purpose and outline
3. For each of the requirements listed in 4 to 9 do the following: (In case you have attempted 10, then explain 10 as well.)
 - Provide explanation and detailed demo to show that your implementation and program code completely fulfills the requirement
4. Explain in your video how you have handled the input validation (describe both client side and server side input validation). Lastly, describe in your video how your implemented code prevents SQL injection attack

Students are **allowed to use php** to complete their server side programming. No other frameworks are allowed. If a framework, library or module is used to bypass some of the requirements of this project then the student is going to receive no points in that deliverable. In addition, there will be considerable deductions as listed in the rubrics.

When you are satisfied with your page designs, layout, css designs, javascript code, php script, MySQL database, and the demo video, you can submit them on the Brightspace course website. The deadline to submit the lab would be Saturday, December 7 @11:59pm. Thanks.

Please note, there is no late submission option for this assignment. Please consult the rubrics carefully, in order to prepare your submission.

Lab problem description has been created by Dr Kafi Rahman. If you have any corrections, please contact the author by email. His email address is: kafi@truman.edu

| Details | Deductions |
|---|---|
| File Requirement: css files, javascript file, image files, php files, html files with all the required designs | <p>–20: form entries were not validated at the client and server side.</p> <p>–5: form entries were not cleaned to prevent script injection attack</p> <p>–5: In case of wrong or missing input in a form element, the error is not highlighted beside the form element</p> <p>–20: shopping cart requirement has not been implemented correctly</p> <p>–10: login and access control requirement have not been implemented correctly</p> <p>–10: mock checkout requirement has not been implemented correctly</p> <p>–5: database table entries were not created to support checkout, product catalog, user validation</p> |
| Misc Requirements | <p>–8x: missing report with the required explanation/demonstration of each design requirements</p> <p>–8x: missing demo video with the required explanation/demonstration of each design requirements</p> <p>–10: input validation of form entries were not explained in the demo video adequately</p> <p>–30: a framework, library or module was used to bypass some of the major requirements of this project.</p> <p>–100: techniques used that was not taught in the class</p> <p>–100: Server side and client side program codes were not submitted on the Brightspace website.</p> <p>–15: The video demonstration is not presented by the participant (the video must be explained properly by using voice.</p> <p>+10 bonus: PayPal checkout feature has been implemented</p> |
| MySQL Database Requirement | <p>–10: In the demo video describe the database, and all tables. For each table, show the rows that you have created (alongside SQL command). Further in the video, show the update of the rows of your table both before and after an order is processed.</p> |

