**Component Revisions Based on Feedback, Highlighted Revisions**

Bill Maggs

The University of Arizona Global Campus

CST499: Capstone for Computer Software Technology

Dr. Charmelia Butler

November 3rd, 2024

**“For this final project, you will need to compile all the components of the software project that you developed for this course. Be sure to make the needed revisions of each component based on feedback that you received from your instructor.”**

Submission Comments and Responses:

1. Week 1: SRS – “Thank you for resubmitting. Very nice work! You are only missing in-text citations to align with your listed references. l also recommend taking the written text you developed on the first few pages and incorporating it into your template in the relevant sections.”

**Response:** Document reviewed; References listed in the academic paper updated to match citations in the body of the paper. The reference section for the SRS (Section 1.5 of the SRS) was updated to remove unused citations within the SRS. For clarity, the reference block for the academic paper was moved to page 5 before the start of the actual SRS. The SRS was updated to match the descriptive body of the paper. The body of the paper should be considered background, context, and executive summary of the SRS.

1. Week 2: UML – “Your paper on UML models effectively captures the key design and requirement aspects essential for software development. You have demonstrated a clear understanding of UML concepts, particularly in your explanations of various diagrams such as use case and class diagrams. Improving the overall cohesion of your paper with smoother transitions between sections and including more academic references to support your claims will also elevate the quality of your work. Overall, this is a solid foundation, and I look forward to your future submissions.”

**Response:** The introduction to the six diagrams shown is on page 3. Each diagram type is then individually discussed, giving textual rationale for the particular diagram along with the noted figure. The discussions of each individual diagram were expanded for clarity, with additional references added where deemed necessary for support. Following the UML diagram discussion is a transition paragraph to the testing section. Each type of testing is discussed and related in turn to the enrollment system.

1. Week 3: Landing, Login, and Enrollment Pages – “Your project submission demonstrates a solid understanding of setting up a PHP application using XAMPP and MySQL. You effectively explained how to run a PHP file in XAMPP, providing clear instructions that are essential for anyone new to the platform. The landing, login, and registration pages are well-designed, with user-friendly layouts that enhance navigation. It's evident that you put thought into the user experience, especially in the registration page, which is clean and straightforward.

You successfully created a MySQL database and tables, showcasing a logical structure that supports the application's functionality. In your discussion of MySQL database functions, you provided valuable insights into how you built your custom database connection class, demonstrating good programming practices. However, elaborating on error handling in your connection class would strengthen your implementation. Additionally, including the SQL commands used for creating the database and tables would add clarity to your documentation.

Your PHP source code for the registration page is well-organized and commented, which helps in understanding your logic. Overall, you've done an excellent job, and with a few enhancements, your project could be even more robust. Keep up the great work!”

**Response:** I did not note any specific enhancements noted outside of the rubric, or improvements to the paper, no updates added. I do have some thoughts on areas I would personally like to see improvement, these will be accomplished in the final submission.

1. Week 4: mySQL Database and Class Registration – “You've made a solid effort in creating your MySQL database and the accompanying pages. You successfully created the required tables and they are well-structured. I appreciate your attention to the relationships between tables. The screenshots of the database before and after each key operation are clear and effectively demonstrate your implementation. Great job on documenting these changes! Your screenshots showcasing the various pages are well-captured. They provide a good visual representation of your project's functionality. Your reflection on the implementation phase was insightful. It's great to hear about the challenges you faced and how you overcame them. This shows a strong understanding of the development process.”

**Overall Response:** Thank You! This has been a challenging yet “very fun” project! As per week 3 comments and week 4 reflections, I did add some additional features/functions outside of the rubric. The week 3 and week 4 assignments are submitted “as is” since there were no specific enhancements mentioned, and I will be writing code up until submission time for “polishing”. All enhancements will be covered in the video walk-through, with the summary in the next section.

**Highlighted Revisions:**

1. The site map is now split into figure 1 and figure 2 due to the growing complexity and interconnect of the website, showing updates since the week 4 submission. An important note for comparison is the inclusion of **role-based access control** based on the role column of the user profile in tbluser shown again for reference in figure 3. Student ID 7 and Student ID 8 will be used for demonstration video.
2. Upon login, if a user has a role of admin, the links change on the landing page to allow adding to the course catalog, and viewing total enrollment.
3. Logout functionality is now completed for all users to reset the landing page with the default (not logged in) links.
4. All .php files were updated to a common platform of links to follow the site map.

**Figure 1:**

*Updated sitemap page 1*

A screenshot of a diagram

Description automatically generated

**Figure 2:**

*Updated sitemap page 2*

A diagram of a website

Description automatically generated

**Figure 3:**

*tbluser with column for role*

