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| --- | --- | --- | --- | --- | --- |
| Database Installation Instructions | |  |  |  |  | | --- | --- | --- | --- | | Instructions are not sufficient to install a minimal database for the application to work.  0points | Instructions are mostly complete with some significant issues present affecting the correctness of the web application.  1points | Instructions are mostly complete and correct. Only minor issues are present and do not affect the execution of the web application.  2points | Instructions are complete and correct: permitting the installation of a correct, minimal database for user the web application.  3points | |
| Web Application Installation/Configuration Instructions | |  |  |  |  | | --- | --- | --- | --- | | Instructions are not sufficient to install and configure the web application on an empty/new system.  0points | Instructions are mostly complete with some significant issues present affecting the correctness of the web application.  1points | Instructions are mostly complete and correct with only minor issues not affecting the execution of the web application (e.g., documentation errors).  2points | Instructions are complete and correct.  3points | |
| Web Application Concept and Purpose Documentation | |  |  |  |  | | --- | --- | --- | --- | | Description of the purpose and concept of the web application needs more work.  0points | Fair description of the purpose and concept of the web application.  1points | Good moderately detailed description of the purpose and concept of the web application.  2points | Excellent detailed description of the purpose and concept of the web application.  3points | |
| Web Application User Walk-Through Documentation | |  |  |  |  | | --- | --- | --- | --- | | Walk-through of web application menu items and features including specific mentions to specific code elements (e.g., functions) and files needs more work.  0points | Fair walk-through of some web application menu items and features including some specific mentions to specific code elements (e.g., functions) and files.  1points | Good moderately detailed walk-through of all web application menu items and features including some specific mentions to specific code elements (e.g., functions) and files.  2points | Excellent detailed walk-through of all web application menu items and features including specific mentions to specific code elements (e.g., functions) and files.  3points | |
| Web Application Security-Related Documentation | |  |  |  |  | | --- | --- | --- | --- | | Security-related documentation needs work.  0points | Documentation points out some of the code locations where injection, cross-site scripting, etc. attacks are prevented and mentions some of the forms, etc. that use such.  1points | Documentation clearly points out most of the code locations where injection, cross-site scripting, etc. attacks are prevented and mentions most forms, etc. that use such.  2points | Documentation clearly points out all code locations where injection, cross-site scripting, etc. attacks are prevented and mentions all forms, etc. that use such.  3points | |
| Spelling and Grammar in Documentation | |  |  |  |  | | --- | --- | --- | --- | | Poor spelling and grammar.  0points | Fair spelling and grammar (i.e., many minor issues and a significant number of major ones).  1points | Good spelling and grammar (i.e., some minor issues and only a few major ones).  2points | Excellent spelling and grammar (i.e., only a few minor issues).  3points | |
| Aesthetics of Documentation | |  |  |  |  | | --- | --- | --- | --- | | Documentation organization is poor --actually inhibiting ease-of-reading and comprehension.  0points | Documentation is adequate.  1points | Documentation is reasonably well-organized so as to facilitate ease-of-reading and comprehension.  2points | Documentation is very well-organized so as to facilitate ease-of-reading and comprehension.  3points | |

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| Overall Aesthetics | |  |  |  |  |  | | --- | --- | --- | --- | --- | | The web application is not user-friendly, visually appealing, easy-to-use, and the page-to-page flow user experience is poor.  0points | The web application is inconsistently user-friendly, visually appealing, easy-to-use, and the user is inconsistently taken from page to page provided with sometimes unconfusing, appropriate, hyperlinked feedback.  1points | The web application is adequately user-friendly, visually appealing, easy-to-use, and the user is adequately taken from page to page provided with adequately unconfusing, appropriate, hyperlinked feedback.  2points | The web application is usually user-friendly, visually appealing, easy-to-use, and the user is usually taken from page to page provided with usually unconfusing, appropriate, hyperlinked feedback.  3points | The web application is always user-friendly, visually appealing, easy-to-use, and the user is always taken from page to page provided with unconfusing, appropriate, hyperlinked feedback.  4points | |
| Errors in Code | |  |  |  |  |  | | --- | --- | --- | --- | --- | | Needs work: all code runs with excessive numbers of errors and/or the errors prevent major features of the application from working.  0points | Adequate: code runs with many errors but they don't affect major application feature functionality and they are not excessive.  1points | Good: all code runs with some errors and they don't affect major application feature functionality.  2points | Excellent: all code runs with a very small number of errors (e.g., 2) and they don't affect major application feature functionality.  3points | Truly exemplary: all code runs without errors.  4points | |
| Warnings in Code | |  |  |  |  |  | | --- | --- | --- | --- | --- | | Needs work: all code runs with excessive numbers of warnings and/or the warnings do negatively affect features of the application.  0points | Adequate: code runs with many warnings but they don't affect major application feature functionality and they are not excessive.  1points | Good: all code runs with some warnings and they don't affect application feature functionality.  2points | Excellent: all code runs with a very small number of warnings (e.g., 3) and they don't affect application feature functionality.  3points | Truly exemplary: all code runs without warnings.  4points | |
| Code Structure and Readbility | |  |  |  |  |  | | --- | --- | --- | --- | --- | | Poor code structure, variable names, inadequate numbers of functions/classes written and used, and/or too much spaghetti code.  0points | Some code has adequate code structure, self-documenting names, use of functions/classes and little/no spaghetti code.  1points | Most code has good code structure, self-documenting names, use of functions/classes and no spaghetti code.  2points | Nearly all code has excellent code structure, self-documenting names, use of functions/classes and no spaghetti code.  3points | All code has exemplary code structure, self-documenting names, use of functions/classes, and no spaghetti code.  4points | |
| HTML Injection Attack Prevention | |  |  |  | | --- | --- | --- | | No or too many attacks are not prevented.  0points | Many attacks are prevented.  1points | Nearly all or all attacks are prevented. (NOTE: Code must be clearly invoked to demonstrate prevention.)  2points | |
| SQL Injection Attack Prevention | |  |  |  | | --- | --- | --- | | No or too many attacks are not prevented.  0points | Many attacks are prevented.  1points | Nearly all or all attacks are prevented. (NOTE: Code must be clearly invoked to demonstrate prevention.)  2points | |
| Public Directory Usage | |  |  |  |  | | --- | --- | --- | --- | | Too few web-accessible directories have an index file and/or there are public directories storing non-publicly accessible files.  0points | Some web-accessible directories have an index file that is blank or a proper page to prevent directory browsing. All public directories do not store non-publicly accessible files.  1points | Most web-accessible directories have an index file that is blank or a proper page to prevent directory browsing. All public directories do not store non-publicly accessible files.  2points | All web-accessible directories have an index file that is blank or a proper page to prevent directory browsing. All public directories do not store non-publicly accessible files.  3points | |
| Private Directory Usage | |  |  | | --- | --- | | There is at least one non-publicly accessible file stored in a directory that can only be directly accessed via a URL.  0points | All non-publicly accessible files are stored in a directory that can only be indirectly accessed via a PHP script.  1points | |
| Database Usage | |  |  |  | | --- | --- | --- | | Database is not used to at least store some persistent user login information.  0points | Database is used to store at least persistent user login information.  1points | Database is used to store more than persistent user login information.  2points | |
| Feedback Given to User from User Actions/Errors | |  |  |  |  | | --- | --- | --- | --- | | Client- and server-side feedback is insufficiently or not provided.  0points | Client- and server-side feedback is sometimes provided.  1points | Client- and server-side feedback is usually provided.  2points | Client- and server-side feedback is always provided.  3points | |
| Form Validation | |  |  |  | | --- | --- | --- | | Too few forms are server-side validated concerning field correctness.  0points | Some forms are server-side validated concerning field correctness.  1points | All forms are server-side validated concerning field correctness.  2points | |
| Form Auto-repopulation | |  |  |  | | --- | --- | --- | | Few or no forms that fail to server-side validate are re-populated with user-entered data for the user to correct.  0points | Some forms that fail to server-side validate are re-populated with user-entered data for the user to correct.  1points | All forms that fail to server-side validate are re-populated with user-entered data for the user to correct.  2points | |
| Outputs Valid and Correct XHTML/XML | |  |  |  | | --- | --- | --- | | Some or none XHTML/XML pages output are valid XHTML/XML.  0points | Most XHTML/XML pages output are valid XHTML/XML.  1points | All XHTML/XML pages output are valid XHTML/XML.  2points | |
| JavaScript Editor Usage (e.g., Aloha, TinyMCE) | |  |  |  | | --- | --- | --- | | JavaScript editor is not used at all or is non-functional.  0points | Basic editor functionality is used and little customization.  1points | Adequate editor functionality and customization is used.  2points | |
| AJAX Usage  -  -  -  -  - | |  |  |  |  | | --- | --- | --- | --- | | AJAX is not used at all or is non-functional.  0points | Low-level AJAX API is used meaningfully and directly for at least one purpose.  1points | AJAX is used for at least three (3) meaningful distict purposes with the low-level AJAX API being used at least once.  2points | AJAX is used for at least five (5) meaningful distict purposes with the low-level AJAX API being used at least once.  3points | |
| XSLT Usage   * Displaying menu | |  |  |  |  | | --- | --- | --- | --- | | XSLT is not used or is non-functional.  0points | XSLT is used to transform an XML structure client-side or server-side.  1points | XSLT is sometimes used to transform XML structures client-side and server-side.  2points | XSLT is always used to transform many distinct XML structures client-side and server-side.  3points | |
| XML Usage | |  |  | | --- | --- | | Outside of XHTML/SVG, XML is not meaningfully used.  0points | XML is meaningfully used outside of XHTML/SVG.  1points | |
| SVG Usage   * Takeout menu | |  |  | | --- | --- | | SVG is not meaningfully used and is not interactive and/or dynamically generated.  0points | SVG is meaningfully used and is interactive and/or dynamically generated.  1points | |
| CSS Usage  -EVERYTHING | |  |  |  | | --- | --- | --- | | CSS is sometimes, rarely, or never used to format the appearance of all XML/SVG/XHTML documents.  0points | CSS is usually used to format the appearance of all XML/SVG/XHTML documents.  1points | CSS is always used to format the appearance of all XML/SVG/XHTML documents.  2points | |
| DTD/Schema File Definitions and Documentation | |  |  |  | | --- | --- | --- | | Insufficient DTD/Schema definitions and documentation.  0points | Most XML formats used (outside of standardized ones) have a DTD/Schema defined with at least comments documenting its components.  1points | All XML formats used (outside of standardized ones) have a DTD/Schema defined with at least comments documenting its components.  2points | |
| Unauthenticated Application Usage   * Admin Page | |  |  | | --- | --- | | Inadequate unauthenticated application usage.  0points | Web application is reasonably functional to the unauthenticated user. Access blocked or authentication pages are shown when restricted content is accessed.  1points | |
| Authenticated Normal User Application Usage   * Admin page | |  |  | | --- | --- | | Inadequate authenticated application usage.  0points | Web application is reasonably functional to the authenticated normal user. Access blocked or authentication pages are shown when restricted content is accessed.  1points | |
| Authenticated Administrative User Application Usage | |  |  |  | | --- | --- | --- | | Inadequate administrative application usage.  0points | Web application is reasonably functional to the authenticated administrative user.  1points | Web application is reasonably functional to the authenticated administrative user. Administrative user can do special tasks not available to normal users.  2points | |
| Persistence of User Information State Across Logins | |  |  | | --- | --- | | User settings are not preserved or there are no user settings.  0points | User can log out and log in later with user-specific settings preserved.  1points | |
| Create/Modify/Delete Pages   * Admin page with AJAX | |  |  |  | | --- | --- | --- | | Insufficient create/modify/delete functionality.  0points | Authenticated users can do two of "create", "modify", and "delete" items within the application.  1points | Authenticated users can "create", "modify", and "delete" items within the application.  2points | |
| "Contact Us" Page   * Form in php and html | |  |  | | --- | --- | | Insufficient "Contact Us" page.  0points | Application has a form for visitors to fill out to ask questions. Such must be "sent" to an administrative user of the application.  1points | |
| Threaded Discussion Forum or Wiki Usage   * Guestbook / suggestions page / Q/A | |  |  |  | | --- | --- | --- | | Insufficient threaded discussion forum or wiki usage.  0points | Application uses basic threaded discussion forum or wiki from text.  1points | Application uses an augmented threaded discussion forum or wiki (relative to the ones in the text).  2points | |

* Main page containing navigation
* Display Menu
* About us
* Contact Us
* Takeout Menu
* Guestbook / Suggestions / Q/A Form
* Login page