3. Test Results**Karl Erb, Christopher Kheir, Anthony Chambers, Zachary Baas**

***3.1. URL, Login Information, and Tester Instructions for the Working Application***

This section is not applicable to this project, as no working code is being developed for the MVC SIS prototype assignment.

***3.2. Test Results Table***

**Table 3.2 – Test Results**

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| --- | --- | --- | --- |
| **Test Case ID** | **Input & Program State** | **Expected Output** | **Tester** |
| 000 | 1.1 The hardware is acquired and ready to be set up. | 1.1 The system powers on. | Kheir, Christopher |
| 001 | 1.1 A browser window is opened to attempt to connect to a webpage. | 1.1 The webpage is reached. | Kheir,  Christopher |
| 002 | 1.1 The system is powered off and a USB drive with the operating system is plugged in.  1.2 A terminal window is opened for the command to check the version of the operating system to be inputted. | 1.1 The system loads the operating system.  1.2 The version of the operating displayed matches the desired version of the operating system. | Kheir,  Christopher |
| 100 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser. | 1.1 The web browser loads the website’s home page.  1.2 The home page is displayed properly. | Erb, Karl |
| 101 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The login button is functional. | 1.1 The web browser loads the website’s login page. | Erb, Karl |
| 102 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The login button is functional. | 1.1 The web browser loads the website’s login page.  1.2 The login page is displayed properly. | Erb, Karl |
| 103 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The login button is functional.  1.4 The textboxes are ready to accept input. | 1.1 The web browser loads the website’s login page.  1.2 The system rejects the invalid username. | Erb, Karl |
| 104 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The login button is functional.  1.4 The textboxes are ready to accept input. | 1.1 The web browser loads the website’s login page.  1.2 The system rejects the invalid password. | Erb, Karl |
| 105 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The login button is functional.  1.4 The textboxes are ready to accept input. | 1.1 The web browser loads the website’s login page.  1.2 The system accepts the username.  1.3 The system accepts the password.  1.4 The welcome page is loaded. | Erb, Karl |
| 106 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The login is successful. | 1.1 The web browser loads the website’s welcome page.  1.2 The welcome page is displayed properly. | Erb, Karl |
| 107 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The student login is successful. | 1.1 The web browser loads the student welcome page.  1.2 The student welcome page is displayed properly. | Erb, Karl |
| 108 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The student login is successful.  1.4 The view or edit student record button is functional.  1.5 The edit record button is functional. | 1.1 The web browser loads the view or edit record page.  1.2 The web browser loads the edit record page. | Erb, Karl |
| 109 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The faculty login is successful. | 1.1 The web browser loads the faculty welcome page.  1.2 The faculty welcome page is displayed properly. | Erb, Karl |
| 110 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The faculty login is successful.  1.4 The search student records button is functional. | 1.1 The web browser loads the search student records page. | Erb, Karl |
| 111 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The faculty login is successful.  1.4 The edit student record button is functional. | 1.1 The web browser loads the edit student record page. | Erb, Karl |
| 112 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The registrar staff login is successful. | 1.1 The web browser loads the registrar staff welcome page.  1.2 The registrar staff welcome page is displayed correctly. | Erb, Karl |
| 113 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The registrar staff login is successful.  1.4 The search student records button is functional. | 1.1 The web browser loads the search student records page. | Erb, Karl |
| 114 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The registrar staff login is successful.  1.4 The edit student record button is functional. | 1.1 The web browser loads the edit student record page. | Erb, Karl |
| 115 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The registrar staff login is successful.  1.4 The add student record button is functional. | 1.1 The web browser loads the add student record page. | Erb, Karl |
| 116 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The registrar staff login is successful.  1.4 The delete student record button is functional. | 1.1 The web browser loads the delete student record page. | Erb, Karl |
| 117 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The registrar staff login is successful.  1.4 The assign user roles and permissions button is functional. | 1.1 The web browser loads the assign user roles and permissions page. | Erb, Karl |
| 118 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The registrar staff login is successful.  1.4 The view transaction logs button is functional. | 1.1 The web browser loads the view transaction logs page. | Erb, Karl |
| 119 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The student login is successful.  1.4 The view or edit student record button is functional. | 1.1 The system loads the student users’ record.  1.2 The view or edit student record page is displayed correctly. | Erb, Karl |
| 120 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The faculty login is successful.  1.4 The search student records button is functional. | 1.1 The system returns results from the search.  1.2 The system displays the selected record properly. | Erb, Karl |
| 121 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The registrar staff login is successful.  1.4 The search student records button is functional. | 1.1 The system returns results from the search.  1.2 The system displays the selected record properly. | Erb, Karl |
| 122 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The faculty login is successful.  1.4 The search student records button is functional. | 1.1 The system returns results from the search.  1.2 The search student records page is displayed properly. | Erb, Karl |
| 123 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The registrar staff login is successful.  1.4 The search student records button is functional. | 1.1 The system returns results from the search.  1.2 The search student records page is displayed properly. | Erb, Karl |
| 124 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The student login is successful.  1.4 The view or edit student record button is functional.  1.5 The edit record button is functional. | 1.1 The system allows changes to the record to be made.  1.2 The system saves the changes to the record.  1.3 The edit student record page is displayed correctly. | Erb, Karl |
| 125 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The faculty login is successful.  1.4 The edit student record button is functional. | 1.1 The system allows changes to the record to be made.  1.2 The system saves the changes to the record.  1.3 The edit student record page is displayed correctly. | Erb, Karl |
| 126 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The registrar staff login is successful.  1.4 The edit student record button is functional. | 1.1 The system allows changes to the record to be made.  1.2 The system saves the changes to the record.  1.3 The edit student record page is displayed correctly. | Erb, Karl |
| 127 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The registrar staff login is successful.  1.4 The add student record button is functional. | 1.1 The system allows the new record to be created.  1.2 The system saves the new record.  1.3 The add student record page is displayed properly. | Erb, Karl |
| 128 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The registrar staff login is successful.  1.4 The delete student record button is functional. | 1.1 The system allows the selected record to be deleted.  1.2 The record is removed from the system.  1.3 The delete student record page is displayed correctly. | Erb, Karl |
| 129 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The registrar staff login is successful.  1.4 The assign user roles and permissions button is functional. | 1.1 The system allows a user’s role and permissions to be modified.  1.2 The new role and permissions are saved to the system.  1.3 The assign user roles and permissions page is displayed correctly. | Erb, Karl |
| 130 | 1.1 The web browser is initialized.  1.2 The website URL is input into the web browser.  1.3 The registrar staff login is successful.  1.4 The view transaction logs button is functional. | 1.1 The system allows a transaction log to be searched for.  1.2 The system displays the transaction log.  1.3 The view transaction logs page is displayed correctly. | Erb, Karl |
| 131 | 1.1 The web browser is initialized.  1.2 The Apache Server’s IP address in input into the web browser. | 1.1 A connection to the Apache Server is established.  1.2 The Apache Server can be successfully logged into. | Erb, Karl |
| 200 | 1.1 The web browser is initialized.  1.2 The test page is loaded | 1.1 The test page indicates a successful MySQL connection. | Baas, Zach |
| 201 | 1.1 The web browser is initialized.  1.2 The test page is loaded | 1.1 The test page indicates a successful MySQL database connection | Baas, Zach |
| 202 | 1.1 The web browser is initialized.  1.2 The test page is loaded | 1.1 The test page shows all tables created and able to be queried. | Baas, Zach |
| 203 | 1.1 The web browser is initialized.  1.2 The test page is loaded | 1.1 The test page shows the entered sample student data properly entered. | Baas, Zach |
| 204 | 1.1 The web browser is initialized.  1.2 The test page is loaded | 1.1 The test page shows correct results for all the sample PHP queries to the database. | Baas, Zach |
| 205 | 1.1 phpMyAdmin is initialized.  1.2 phpMyAdmin runs the test commands.  1.3 The web browser is initialized. | 1.1 The queries run and show the correct output. \*  1.2 The test page displays the proper output. \*  \* Proper output: Student entry added | Baas, Zach |
| 206 | 1.1 phpMyAdmin is initialized.  1.2 phpMyAdmin runs the test commands.  1.3 The web browser is initialized. | 1.1 The queries run and show the correct output. \*  1.2 The test page displays the proper output. \*  \* Proper output: Student data queried | Baas, Zach |
| 207 | 1.1 phpMyAdmin is initialized.  1.2 phpMyAdmin runs the test commands.  1.3 The web browser is initialized. | 1.1 The queries run and show the correct output. \*  1.2 The test page displays the proper output. \*  \* Proper output: Student deleted | Baas, Zach |
| 208 | 1.1 phpMyAdmin is initialized.  1.2 phpMyAdmin runs the test commands.  1.3 The web browser is initialized. | 1.1 The queries run and show the correct output. \*  1.2 The test page displays the proper output. \*  \* Proper output: Student data changed | Baas, Zach |
| 209 | 1.1 phpMyAdmin is initialized.  1.2 phpMyAdmin runs the test commands.  1.3 The web browser is initialized. | 1.1 The queries run and show the correct output. \*  1.2 The test page displays the proper output. \*  \* Proper output: Student data displayed properly. | Baas, Zach |
| 210 | 1.1 phpMyAdmin is initialized.  1.2 phpMyAdmin runs the test commands.  1.3 The web browser is initialized. | 1.1 The queries run and show the correct output. \*  1.2 The test page displays the proper output. \*  \* Proper output: Error thrown If SID is duplicate attempt. | Baas, Zach |
| 211 | 1.1 The web browser is initialized  1.2 The user is logged in as registrar | 1.1 No database query or update can be performed unless the CAPTCHA is correct *and* the confirmation button is clicked. | Baas, Zach |
| 300 | 1.1 The web browser is initialized.  1.2 Firewall rules have been configured.  1.3 Test Connection from machine within the Firewall to outside the Firewall. | 1.1 Connection to the firewall has been established.  1.2 The configured changes have been applied to all systems and networks connected to the firewall.  1.3 Traffic should be received. | Chambers, Anthony |
| 301 | 1.1 Penetration tester arrives to testing site | 1.1 Penetration testing complete  1.2 Testing results saved for analysis. | Chambers, Anthony |
| 302 | 1.1 The web browser is initialized. | 1.1 A secure HTTPS connection is observed. | Chambers, Anthony |
| 303 | 1.1 Enable tracing in properties file of the server.  1.2 Enable logging in properties file of the server. | 1.1 The SIS is now able to trace and display a user’s location in the SIS.  1.2 The SIS is now able to create logs of users logging in. | Chambers, Anthony |
| 304 | 1.1 Returning users login into the SIS.  1.2 Users pass the CAPTCHA.  1.3 User fails or bot is detected by CAPTCHA | 1.1 CAPTCHA is initialized.  1.2 Display “Login Successful”, and users are allowed access into the SIS.  1.3 Display, “Login Failed”. | Chambers, Anthony |
| 305 | 1.1 Train Employees  1.2 Encryption of private and personal data. | 1.1 Employees are compliant with FERPA.  1.2 Eliminated exploits and vulnerabilities. | Chambers, Anthony |

Page Break