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| **S/N** | **Functionality** | **Description** | **Test Inputs** | **Test Procedure** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Login | Validate that user with correct credential can login | Username:  zorro.fan.2010  Password:  zxcvbn1284 | Put username into username input field and password into password input field. Submit | Login succeed. The home page is displayed |  |  |
| 2 | Login | User should not be able to access the website without entering any username or password | Username:  Password: | Submit without entering anything | Invalid login. Return to login page |  |  |
| 5 | Login | User/non-user should not be able to access admin page via URL. Admin/non-user should not be able to access user page via URL | adminPage.jsp userPage.jsp | Type the inputs into URL. Enter | Return user/admin back to their respective accessible website. Return non-user back to login page |  |  |
| 3 | Login | SQL injection | Username: abc OR 1=1  Password: abc OR 1=1 | Put username into username input field and password into password input field. Submit | Invalid login. Return to login page |  |  |
| 4 | Login | User should not be able to access the website with special symbols as username | Username: %  Password: zxcvbn1284 | Put username into username input field and password into password input field. Submit | Invalid login. Return to login page |  |  |
| 5 | Login | After logging out, user should not be allowed back into the website by clicking the back button | nil | Logout. Click back button | Return back to login page |  |  |
| 6 | Basic Location Report | Accuracy for variables for breakdown report must be tallied to SQL query | Date: 2014-03-23 13:40:00  Year, gender, school | Put date into date input field and click year, gender school | Percentage must add up to 100% +-1% and quantity must tally |  |  |
| 7 | Basic Location Report | Accuracy for calculation results for TopK popular places report must be tallied to SQL query | Date: 2014-03-23 13:40:00  TopK: 3 | Put date into date input field and click TopK | TopK rows must be formed and data must tally |  |  |