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| **SNo.** | **ACTION** | **INPUTS** | **EXPECTED OUTPUT** | **ACTUAL OUTPUT** | **TEST BROWSER** | **TEST RESULT** |
| 1 | Launch application | index.html | HTML web page opens on a local server | Webpage opened | Chrome Version 71.0.3578.98 | PASS |
| 2 | Starting the simulation | Click on “START” button | Animation starts inside the outlined setup. On completion Alert message displays: “Simulation Completed!” | Animation started inside the outlined setup. On completion Alert message displayed: “Simulation Completed!” | Chrome Version 71.0.3578.98 | PASS |
| 3 | Stopping simulation before completion | Click on “RESET” button | Page reloads | Page reloaded | Chrome Version 71.0.3578.98 | PASS |
| 4 | Going to Calculations section | Click on “CALCULATIONS” button | Page scrolls onto the Calculations section | Page scrolled onto the Calculations section | Chrome Version 71.0.3578.98 | PASS |
| 5 | Clicking “CALCULATE!” with empty values in the form | Click on “CALCULATE!” button | Alert message occurs stating: “Please fill all the inputs” | Alert message occured, stating: “Please fill all the inputs” | Chrome Version 71.0.3578.98 | PASS |
| 6 | Filling the valid values in the form | After filling, click on “CALCULATE!” button | Alert message occurs stating: “Average Total Head is ...” On clicking “OK”, a graph should be plotted below the form | Alert message occured, stating: “Average Total Head is ...” On clicking “OK”, a graph has been plotted below the form | Chrome Version 71.0.3578.98 | PASS |
| **S No.** | **ACTION** | **INPUTS** | **EXPECTED OUTPUT** | **ACTUAL OUTPUT** | **TEST BROWSER** | **TEST RESULT** |
| 7 | Filling the form with invalid values (-ve in case of Volume and Pressure or -ve/zero in case of Time and Area) | After filling, click on “CALCULATE!” button | Alert message occurs stating: “Invalid input(s)! Values of Time and Area must be positive, values of Volume and Pressure must be non-negative” | Alert message occured, stating: “Invalid input(s)! Values of Time and Area must be positive, values of Volume and Pressure must be non-negative” | Chrome Version 71.0.3578.98 | PASS |
| 8 | Filling the form with unacceptable number values such as multiple decimals etc. | After filling, click on “CALCULATE!” button | Alert message occurs stating: “NaN” | Alert message occured, stating: “NaN” | Chrome Version 71.0.3578.98 | PASS |
| 9 | Clicking “CLEAR” with some filled values in the form but graph is empty | Click on “CLEAR” button | All values get cleared. Graph remains empty. | All values got cleared. Graph remained empty. | Chrome Version 71.0.3578.98 | PASS |
| 10 | Clicking “CLEAR” with some filled values in the form and graph being displayed for these values | Click on “CLEAR” button | All values of the form get cleared. Graph also gets cleared | All values of the form got cleared. Graph also got cleared |  | PASS |
| 11 | Clicking “CLEAR” with empty values in the form | Click on “CLEAR” button | No output | No output | Chrome Version 71.0.3578.98 | PASS |