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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: “Specific Gravity of the soil is ...” | Alert message occured, stating: “Specific Gravity of the soil is ...” | 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 or zero for mass) | After filling, click on “CALCULATE!” button | Alert message occurs stating: “Invalid input(s)! Value of mass should be postive” | Alert message occured, stating: “Invalid input(s)! Value of mass should be postive” | Chrome Version 71.0.3578.98 | PASS |
| 8 | Filling the form with illogical values (mass of pycnometer greater than that of a filled one etc) | After filling, click on “CALCULATE!” button | Alert message occurs stating:"Illogical Input(s)! Mass of empty pycnometer should be less than that of a filled one AND Mass of pycnometer filled with soil should be less than that filled with soil and water both." | Alert message occurred stating: "Illogical Input(s)! Mass of empty pycnometer should be less than that of a filled one AND Mass of pycnometer filled with soil should be less than that filled with soil and water both." | Chrome Version 71.0.3578.98 | PASS |
| 9 | Filling the form with unacceptable number values eg. “2.” | After filling, click on “CALCULATE!” button | Alert message occurs stating: “NaN” | Alert message occured, stating: “NaN” | Chrome Version 71.0.3578.98 | PASS |
| 10 | Clicking “CLEAR” with some filled values in the form. | Click on “CLEAR” button | All values get cleared. | All values got cleared. | Chrome Version 71.0.3578.98 | PASS |
| 11 | Reducing the browser window size down to width less than 1100px | NA | Alert message occurs stating: “Please view the experiment in full desktop browser window”. Calculations can be performed. | Alert message occurred stating: “Please view the experiment in full desktop browser window”. Calculations can be performed. | Chrome Version 71.0.3578.98 | PASS |