

No.	Test - subject	no.	Test - object	Sub Cases	Description of input	Description of expected output	Result
	1) Login	1) Title		1	clicking login title	login title should not be clickable	Pass
				2	Title should be properly positioned	login title should be positioned properly despite resizing	Pass
		2) Background		1	Background images should load properly and within time	Background images should load properly and within time	Pass
				2	Background images should not be clickable	Background image is not clickable	Pass
		3) Username		1	Entering username	Username should be case sensitive	Pass
				2	Username should not be blank	Error message displayed	Pass
		4) Password		1	Password should not be blank	Error message to fill in all the fields	Pass
				2	Entering password	Password should be case sensitive	Pass
				3	Entering password	Password should be masked	Pass
		5) loginButton		1	clicking login button	Login button should be clickable	Pass
				2	hovering over login button	border colour of login button should change	Pass
				3	login button clicked with correct details	Message box for successful login should be displayed	Pass
				4	clicking button with wrong details filled	Error message box should be displayed	Pass
		6) signupText		1	clicking signup text	signup text should be clickable	Pass
				2	clicking signup text	should direct to signup page	Pass
		7) forgotPasswordText		1	clicking on forgotpasswordtext	forgot password text should be clickable	Pass
				2	clicking forgotpasswordText	new window should be displayed for sending password to registered mail id	Pass
	2) Sign-Up	1) Title		1	clicking signup title	signup title should not be clickable	Pass
				2	signup title should be properly positioned	signup title should be properly positioned despite resizing	Pass
		2) Background		1	loading of background images	background images should load up properly and within time	Pass
		3) Name		1	Entering name	Name should accept string	Pass
				2	Name left blank	Error message to fill in all the fields	Pass
		4) Username		1	Username left blank	Error message to fill in all the fields	Pass
				2	Existing username entered	Error message to change username	Pass
				3	entering username	Username entered should be case sensitive	Pass
		5) Password		1	Password left blank	Error message to fill in all the fields	Pass
				2	Entering password	Password should be masked	Pass
				3	Entering password	Password should be case sensitive	Pass
		6) Confirm Password		1	entering confirm password	Confirm password should be masked	Pass
				2	confirm password entered not matching the password	Error message mentioning that password and confirm password do not match	Pass
		7) email		1	Email left blank	Error message to fill in all the fields	Pass
				2	Entering email	Email should be case sensitive	Pass
		8) signup button		1	signup button clicked with any field empty	Message box to fill in all the fields	Pass
				2	signup button clicked with password not matching confirm password	Error message box to make password match	Pass
				3	signup button clicked with already existing username entered	Should display an error message to change username	Pass
				4	signup button clicked with all details properly filled	Successful signup message box should be displayed	Pass
		9) gotoLoginText		1	Clicking gotoLogin text	gotoLogin text should be clickable	Pass
				2	clicking gotoLogin text	Should redirect to login page	Pass
	3) Sourcerer Tab	1) Title		1	Title should be fully contained in the tab	Title remains fully contained irrespective of resizing	Pass
				2	Title should be at the centre of the tab	Title remains at the center irrespective of resizing	Pass
				3	Clicking the title tab should open the Sourcerer tab	Clicking the title tab opens the Sourcerer tab irrespective of the current tab	Pass
		2) Background		1	Background image should load properly and within time	Background image loads properly and within time	Pass
				2	Background image should not be clickable	Background image is not clickable	Pass
		3) Constant Value		1	"Value " or "Duration of Experiment" field is clicked	Should be editable	Pass
				2	"Value " or "Duration of Experiment" is a string of alphabets	Should display an error	Pass
					"Value " or "Duration of Experiment" is left blank	Should display an error	Pass
				3	"Value " or "Duration of Experiment" is an integral number	Should produce output	Pass
				4	"Value " or "Duration of Experiment" is a non-integral number	Should produce output	Fail
				5	Clicking the "Use LED" radiobutton	Should switch to LED tab	Pass
				6	Clicking "Additional Options" radiobutton	Should open Additional entry fields	Pass
				7	Leaving the Additional options empty	Should produce output	Pass
		4) SineWave		1	"Value ","Duration of Experiment","Frequency" or "Initial phase" field is clicked	Should be editable	Pass
				2	"Value ","Duration of Experiment","Frequency" or "Initial phase" is left blank	Should display an error	Pass
				3	"Value ","Duration of Experiment","Frequency" or "Initial phase" is a string of alphabets	Should display an error	Pass
				4	"Value ","Duration of Experiment","Frequency" or "Initial phase" is an integral number	Should produce output	Pass
				5	"Value ","Duration of Experiment","Frequency" or "Initial phase" is a non-integral number	Should produce output	Fail
				6	Clicking the "Use LED" radiobutton	Should switch to LED tab	Pass
				7	Clicking "Additional Options" radiobutton	Should open Additional entry fields	Pass
				8	Leaving the Additional options empty	Should produce output	Pass
		5) Step Voltage		1	"Start Value " , "End Value" or "Number of Steps" field is clicked	Should be editable	Pass
				2	"Start Value " , "End Value" or "Number of Steps" is left blank	Should display an error	Pass
				3	"Start Value " , "End Value" or "Number of Steps" is a string of alphabets	Should display an error	Pass

				4 "Number of Steps" is integral number	Should produce output	Pass	
				5 "Number of Steps" is non-integral number	Should display an error	Pass	
				6 "Start Value " , "End Value" or "Number of Steps" is integral	Should produce output	Pass	
				7 "Start Value " , "End Value" or "Number of Steps" is non-integral	Should produce output	Fail	
				8 Clicking the "Use LED" radiobutton	Should switch to LED tab	Pass	
				9 Clicking "Additional Options" radiobutton	Should open Additional entry fields	Pass	
				10 Leaving the Additional options empty	Should produce output	Pass	
4)	Result Tab	1) Title		1 Title should be fully contained in the tab		Pass	
				2 Title should be at the centre of the tab		Pass	
				3 Title tab should be clickable		Pass	
				4 Clicking title should switch to results tab		Pass	
		2) Background		1 Should fit into the screen entirely		Pass	
				2 Background should be non clickable		Pass	
				3 Background should be visible		Pass	
		3) Result Table		1 Result table executes in proper time		Pass	
				2 Result table should contain all the measurable parameters		Pass	
				3 Result table should not be editable		Pass	
				4 Result table should not be movable		Pass	
				5 Result table fits on the screen with proper alignment		Pass	
				6 Result table should contain Serial No. column		Fail	
		4) Fields		1 Fields should be properly aligned		Pass	
				2 Fields should be present for all the available options		Pass	
		a) X-axis/Y-axis		1 These fields require selecting of predefined inputs so should have Drop Down menus		Pass	
				2 All the options in the drop down menu should be clickable		Pass	
				3 All the options in the drop down menu should be selectable		Pass	
				4 not selecting any input	Should select the default inputs	Pass	
		b) Line Color/Background Color		1 Clicking on the textboxes next to these fields should open color pallette		Pass	
				2 All colors in the pallette should be selectable		Pass	
				3 clicking on a color should select it		Pass	
				4 not selecting any color should give an error			
		c) X-start/Y-start/X-end/Y-end		1 The fields requiring numerical input should have textbox		Pass	
				2 the textboxes in these fields should only accept numerical value		Pass	
				3 when non numerical data is fed	Displays an error message		
		d) Grid/No Grid		1 These are Disjoint options so should have radio buttons		Pass	
				2 Radio Buttons should be working accordingly		Pass	
				3 Buttons should be properly aligned		Pass	
		e) Title		1 This field require alphanumerical input so should have textbox		Pass	
				2 Not writing any title should give the default title		Pass	
		5) Buttons		1 Buttons should be properly aligned		Pass	
				2 Buttons should have their title in centre		Pass	
				3 Buttons should look different argo clickable		Pass	
				4 Buttons should be clickable		Pass	
				5 Buttons should be working		Pass	
		a) Export Readings button		1 Trying to export readings without running an experiment	Displays an error message		
				2 Clicking on the button	opeing of a new window asking for email-Id from the user to export	Pass	
				3 Readings should be exported to the correct email-Id		Pass	
		b) Generate CSV button		1 Trying to generate csv file without running an experiment	Displays an error message		
				2 Clicking on the button	Opens a new window asking for details to save the file	Pass	
				3 the file should be saved by the same name and at the same addresss as specified by the user		Pass	
		c) Plot Graph button		1 Trying to plot graph without running an experiment	Displays an error message		
				2 Clicking on the button	Should display the desired graph	Pass	
5)	LED Tab	1) Title		1 Title should be properly positioned	Title should be properly positioned irrespective of resizing	Pass	
				2 Clicking tab title	Should open led tab irrespective of current tab	Pass	
		2) Background		1 Background is cliciked	No change is expected	Pass	
				2 Background should be visible		Pass	
		3) On time		1 field should be properly aligned		Pass	
				2 field clicked	should be editable	Pass	
				3 field input is integral value	should accept the value	Pass	
				4 field input is non integral value	should accept the value	Fail	
		4) Off time		1 field should be properly aligned		Pass	
				2 field clicked	should be editable	Pass	
				3 field input is integral value	should accept the value	Pass	
				4 field input is non integral value	should accept the value	Fail	
		5) Duration		1 field should be properly aligned		Pass	
				2 field clicked	should be editable	Pass	
				3 field input is integral value	should accept the value	Pass	
				4 field input is non integral value	should accept the value	Fail	
		6) Start button		1 should be clickable		Pass	
				2 button clicked	should produce output	Pass	
				3 "On time" or "Off time" or "Duration" field is empty	should display an error	Fail	
				4 "On time" or "Off time" or "Duration" field value is non integral	should produce output	Fail	
6)	PID tab	1) Title		1 Title should be properly positioned	Title should be properly positioned irrespective of resizing	Pass	
				2 Selecting use heater option	Should open PID tab irrespective of the current tab	Pass	

		2)	Background	1 Background is clicked	No change is expected	Pass	
				2 Background should be visible		Pass	
		3)	Initial temperature	1 field should be properly aligned		Pass	
				2 should automatically display the initial temperature of the sample	should not be editable	Pass	
		4)	Temperature to be reached	1 field should be properly aligned		Pass	
				2 field clicked	should be editable	Pass	
				3 field input is integral value	should accept the value	Pass	
				4 field input is non integral value	should accept the value	Pass	
		5)	No. of intervals	1 field should be properly aligned		Pass	
				2 field clicked	should be editable	Pass	
				3 field input is integral value	should accept the value	Pass	
				4 field input is non integral value	should display an error	Pass	
		6)	Start button	1 should be clickable		Pass	
				2 button clicked	should produce output	Pass	
				3 "Temperature to be reached" or " No. of intervals" fields are empty	should display an error	Pass	
						Pass	