Lab Name	Experiment Id	Feature	Requirements	Test Step Id	Test Case Type	Test Description	Test Steps	Expected Result	Status	Test Case Owner	Pre/Post Conditions	Data/Environment Required	Dev Owner	Reviewed	History	Additional Comments
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	File Options	User should be able to open a new file after clicking on "New" in File menu.	1	Positive	To view a new file.	1.Click on the File menu. 2.Click on the New option.	1. New blank file should be opened.	Reviewed	Aayush	The MIPS simulator should be in a active state before and after this step is carried out.	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	File Options	User should be able to open an existing file after clicking on "Open" in File menu.	2	Positive	To view an existing file.	1.Click on the File menu. 2.Click on the Open option.	1.Open dialog box should be opened which will contain a list of files. 2.User can choose existing file to open.	Reviewed	Aayush	Refer to the test step id 1	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	File Options	User should be able to close the current file after clicking on "Close" in File menu.	3	Positive	To close the current file.	1.Click on the File menu. 2.Click on Close option.	1.The current file should be closed.	Reviewed	Aayush	Refer to the test step id 1	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	File Options	User should be able to close all the files after clicking on "Close All" in File menu.	4	Positive	To close all the files.	1.Click on the File menu. 2.Click on Close All option.	1.All the files should be closed.	Reviewed	Aayush	Refer to the test step id 1	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	File Options	User should be able to save the current file.	5	Positive	To save the current file.	1.Click on the File menu. 2.Click on Save option.	1.Current file should be saved.	Reviewed	Aayush	Refer to the test step id 1	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	File Options	User should be able to save the current file in a particular format(save as).	6	Positive	To save the current file in a aparticular format.	1.Click on the File menu. 2.Click on Save As.	1.Current file should be saved as a particular format.	Reviewed	Aayush	Refer to the test step id 1	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	File Options	User should be able to come out of the simulator.	7	Positive	To exit from the simulator.	1.Click on the File menu. 2.Click on Exit.	1.The simulator should be exited.	Reviewed	Aayush	The simulator should not be visible.	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Run Options	User should be able to Run the entire code.	8	Positive	To run the code entirely.	1.Click on the Run menu. 2.Click on the Run option.	1.The code shoud be run.	Reviewed	Aayush	1.The code should be assembled before clicking on run.	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Run Options	User should be able to Run the entire code.	9	Positive	To run the code entirely (from the button).	1.Click on the Run menu. 2.Click on the Run button.	1.The code shoud be run.	Reviewed	Devansh	1.The code should be assembled before clicking on run.	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Run Options	User should be able to clear the breakpoints.	10	Positive	To clear the breakpoints.	1.Click on the Run menu. 2.Click on the Clear Breakpoints option.	1.All the breakpoints should be cleared.	Reviewed	Devansh	1.The code should be assembled before clicking on Clear Breakpoints.	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Run Options	User should be able to toggle the breakpoints.	11	Positive	To toggle the breakpoints.	1.Click on the Run menu. 2.Click on Toggle Breakpoints option.	1.All the breakpoints should be toggled.	Reviewed	Devansh	1.The code should be assembled before clicking on Toggle Breakpoints.	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Edit Options	User should be able to undo the last editor changes	12	Positive	To undo last editor change	1. Click on Edit from navbar. 2. Click on Undo.	Editor area should reach the state of last edit	Reviewed	Mohit	Editor tab should be selected in top pane.	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Edit Options	User should be able to redo the last undo editor changes	13	Positive	To redo last undo editor change	1. Click on Edit from navbar. 2. Click on Redo.	Editor area should reach the state of last edit	Reviewed	Mohit	1. Editor tab should be selected in top pane. 2. An Undo step must preceed this step.	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Edit Options	User should be able to cut the selected text in editor.	14	Positive	To cut the selected text from Editor pane.	1. Select text from Editor Pane. 2. Click on Edit from navbar. 3. Click on Cut.	Editor area must be deviod of the selected part and this text must exist in the clipboard for a later paste.	Reviewed	Mohit	There must be text in the Editor Pane.	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Edit Options	User should be able to copy the selected text in editor.	15	Positive	To copy the selected text from Editor pane.	1. Select text from Editor Pane. 2. Click on Edit from navbar. 3. Click on Copy.	Editor area must retain the selected part and this text must exist in the clipboard for a later paste.	Reviewed	Mohit	There must be text in the Editor Pane.	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Edit Options	User should be able to paste the previously copied/cut text in editor.	16	Positive	To paste the previously copied/cut text from Editor pane.	1. Take pointer to location where Paste is required. 2. Click on Edit from navbar. 3. Click on Paste.	Editor area must see the text stored in clipboard being added to the editor at location of pointer.	Reviewed	Mohit	There must be a location specified to the pointer.	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Edit Options	User should be able to select all text in editor.	17	Positive	To select all text from Editor pane.	1. Click on Edit from navbar. 2. Click on Select All from the dropdown.	All text in the Editor Pane must be selected.	Reviewed	Mohit	1. There must be text in the Editor Pane. 2. The Editor Pane must be selected.	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Help Options	User should be able to view all Help text for the virtual lab.	18	Positive	To view Help text for the virtual lab.	1. Click on the Help tab in the option pane.	All text in the Editor Pane must be selected.	Reviewed	Avijit	None	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Run Options	User should be able to Assemble code from the Editor Pane.	19	Positive	To assemble code from Editor Pane.	1. Click on Run from the navbar. 2. Click on Assemble in the dropdown.	1. If code is compilable : The Execute Pane must become active with the register data loaded in the respective locations. 2. If code has error(s) : Description of the error's must be seen in the Parser Messages pane at the bottom of the application.	Reviewed	Avijit	None	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5				

Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Run Options	User should be able to Run code in step-by-step fashion.	20	Positive	To be able to run code one-step at a time with register values being updated.	1. Click on Run from the navbar in the dropdown. 2. Click on Step OR 1. Click on Step button in the Execute Pane.	1. The register values should be updated according to the instruction executed in that step. 2. If end-of-code is reached, Parser Messages area should display a green success status.	Reviewed	Avijit	Code must be Assembled before this step.	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Run Options	User should be able to Reset the values of the registers to the initialization of code state.	21	Positive	To Reset the register values to initial values.	1. Click on Run from the navbar 2. Click on Reset from the dropdown.	The register values should be re-initialized and step counter should reach starting of the code.	Reviewed	Mohit	Code must be Assembled before this step.	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5
Computer Organization Lab	6. MIPS Assembly Language Programming - 2	Code Options	User should be able to select from a few sample codes available.	22	Positive	To load sample code into the virtual lab.	1. Click on Codes Pane. 2. Select one of the three codes from the availalbe options. 3. Click Copy on the bottom of the app to select the sample codebase. 4. Paste in the Editor Pane.	The sample code must be copied to the Editor Pane ready for Assembly.	Reviewed	Mohit	None	OS: Windows 7, Linux Browsers: Firefox,Chrome Bandwidth : 100Mbps Hardware Configuration:8 GBRAM , Processor:i5