

Palo Assessment: Time Machine

1.INTRODUCTION

The purpose of this test case is to test and validate a web-based clock function which able to back in time (in other words tick backwards)

2.SCOPE

To revert current time based on user input value (seconds) and able to continue clock ticking with latest adjusted time.

3.REQUIREMENTS

- Basic real time clock functionality based on current time (Year / Month / Date / Hour / Minute / Second)
- The application should accept 1 parameter from the user which is DECREMENT_BY_SECS
- As current time increments by 1 second
- Required to decrement time by the number of seconds provided as a parameter.
- Validations and handle exceptions.

4.TEST CASES

4.1.Test Item: Browser compatibility

Scope: Test compatibility on different types of browsers and responsive.

Scenario 1: Test by checking safari browser compatibility - Version 14.1 (16611.1.21.161.6)

S#	Action	Input Value	Expected Results	Actual Results	P/F
4.1.1	Large view port (>1024px)	N/A	Layout presentable with expected UI as per mockup	As per mockup	P
4.1.2	Medium (1024px - 768px)	N/A	Layout presentable with expected UI as per mockup	As per mockup	P
4.1.3	Small (>768px)	N/A	Layout presentable with expected UI as per mockup	As per mockup	P
4.1.3	Console error check	N/A	Inspect element - expected to be error free	All good	P

Scenario 2: Test by checking google chrome browser compatibility - Version 92.0.4515.131 (Official Build) (arm64)

S#	Action	Input Value	Expected Results	Actual Results	P/F
4.1.4	Large view port (>1024px)	N/A	Layout presentable with expected UI as per mockup	As per mockup	P
4.1.5	Medium (1024px - 768px)	N/A	Layout presentable with expected UI as per mockup	As per mockup	P
4.1.6	Small (>768px)	N/A	Layout presentable with expected UI as per mockup	As per mockup	P
4.1.7	Console error check	N/A	Inspect element - expected to be error free	All good	P

Scenario 3: Test by checking Mozilla Firefox browser compatibility - Version 90.0.2 (64bit)

S#	Action	Input Value	Expected Results	Actual Results	P/F
4.1.8	Large view port (>1024px)	N/A	Layout presentable with expected UI as per mockup	As per mockup	P
4.1.9	Medium (1024px - 768px)	N/A	Layout presentable with expected UI as per mockup	As per mockup	P

S#	Action	Input Value	Expected Results	Actual Results	P/F
4.1.10	Small (>768px)	N/A	Layout presentable with expected UI as per mockup	As per mockup	P
4.1.11	Console error check	N/A	Inspect element - expected to be error free	All good	P

4.2. Test Item: Time functionality

Scope: Test time display normal function based on the current server time.

Scenario 1: Test by observing time display on the page without any action

S#	Action	Input Value	Expected Results	Actual Results	P/F
4.2.1	Clock ticking	N/A	Ticking per second	second ticking with animated slide up.	P
4.2.2	Display current date & time	N/A	Show current date and time in format of Y:D:M:H:M:S	<ul style="list-style-type: none"> - Calendar date show at separated top column below head line. - Time shown in 24 format 	P
4.2.3	Browsers error check	N/A	Inspect		

Scenario 2: Test by observing time display on the page with browser refresh

S#	Action	Input Value	Expected Results	Actual Results	P/F
4.2.4	Display current date & time	N/A	Show current date and time in format of Y:D:M:H:M:S	First load with 00:00:00 at time field.	F

Scenario 3: Test by observing time display with different time zone

S#	Action	Input Value	Expected Results	Actual Results	P/F
4.2.5	Display current date & time	N/A	Show current date and time in format of Y:D:M:H:M:S with VPN for different timezone	Only load for SGT	F

4.3. Test Item: User input functionality

Scope: Test valid and invalid input field attempts to submit the result.

Scenario 1: Test by various valid or invalid inputs on the "seconds" field.

S#	Action	Input Value	Expected Results	Actual Results	P/F
4.3.1	Input field ID - DECREMENT_BY_SECS	N/A	Inspect element - input field ID should be DECREMENT_BY_SECS	Matched expected.	P
4.3.2	Submit input request ...	DECREMENT_BY_SECS = Blank	Error message should be displayed for invalid input.	Error message shown below the input field. "Please provide valid input."	P
4.3.3	Submit input request ...	DECREMENT_BY_SECS = all letters	Error message should be displayed for invalid input.	<ul style="list-style-type: none"> - Unable to type in any letters, Except: 'e' - but submission does not proceed. 	P
4.3.4	Submit input request ...	DECREMENT_BY_SECS = any input contains special character	Error message should be displayed for invalid input.	Unable to type in any input contains special character	P

S#	Action	Input Value	Expected Results	Actual Results	P/F
4.3.5	Submit input request ...	DECREMENT_BY_SECS = all number	Input should be accepted.	Matched expected.	P
4.3.6	Submit input request ...	DECREMENT_BY_SECS = alpha-numeric mix	Error message should be displayed for invalid input.	<ul style="list-style-type: none"> - Unable to type in any letters, Except: 'e' follow by alpha. - Input does not accept and show error message below the input field. "Please provide valid input." 	P

Scenario 2: Test by various valid inputs on the "seconds" field.

S#	Action	Input Value	Expected Results	Actual Results	P/F
4.3.7	Submit input request ...	DECREMENT_BY_SECS = min - max numbers	Should accept number input range 1-9999999999	Input accepted	F

4.4.Test Item: Return value

Scope: Test return value of converted format from input DECREMENT_BY_SECS to D:H:M:S

Scenario 1: Test by various number of DECREMENT_BY_SECS input

S#	Action	Input Value	Expected Results	Actual Results	P/F
4.4.1	Submit input request ...	DECREMENT_BY_SECS = 1	Display Result : Back in time for 1 seconds (1 Seconds).	Matched expected.	P
4.4.1	Submit input request ...	DECREMENT_BY_SECS = 60 (A minute)	Display Result : Back in time for 60 seconds (1 minutes).	Matched expected.	P
4.4.2	Submit input request ...	DECREMENT_BY_SECS = 3600 (A hour)	Display Result : Back in time for 3600 seconds (1 hours).	Matched expected.	P
4.4.3	Submit input request ...	DECREMENT_BY_SECS = 86400 (A day)	Display Result : Back in time for 86400 seconds (1 day).	Matched expected.	P
4.4.3	Submit input request ...	DECREMENT_BY_SECS = 604800 (A Week)	Display Result : Back in time for 604800 seconds (1 Week).	Only show up to days format: Back in time for 604800 seconds (7 Days).	F
4.4.3	Submit input request ...	DECREMENT_BY_SECS = >604800	Display Result : Back in time for X seconds (X Year/Month).	Only show up to number of days	F

Scope: Test return value of NEW time after subtraction CURRENT time from user input (DECREMENT_BY_SECS)

Scenario 2: Test by various numbers of DECREMENT_BY_SECS input and observe the main timer.

S#	Action	Input Value	Expected Results	Actual Results	P/F
4.4.4	Submit input request ...	DECREMENT_BY_SECS = 1	<ul style="list-style-type: none"> - In the Timer section (class="clock") should trigger the "seconds" class CSS animation - Show the after subtraction result and Seconds continue ticking 	Matched expected.	P

S#	Action	Input Value	Expected Results	Actual Results	P/F
4.4.5	Submit input request ...	<i>DECREMENT_BY_S ECS = 60 (A minute)</i>	<ul style="list-style-type: none"> - In the Timer section (class="clock") should trigger the "minutes" class CSS animation - Show the after subtraction result and Seconds continue ticking 	Matched expected.	P
4.4.6	Submit input request ...	<i>DECREMENT_BY_S ECS = 3600 (A hour)</i>	<ul style="list-style-type: none"> - In the Timer section (class="clock") should trigger the "hours" class CSS animation - Show the after subtraction result and Seconds continue ticking 	Matched expected.	P