CP1295 Advanced Java Script
Test 01 5% of Term Grade
Wednesday May 29, 2024
K205
10:30 am – 12:30 pm

Test Time 90 Minutes

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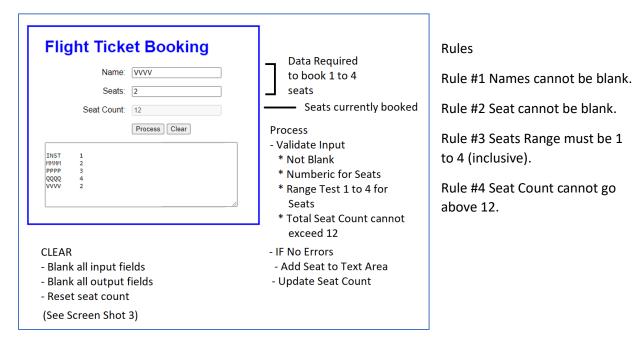
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Outline points

- 1.1 Windows and document objects
- 1.2.1 Textbox objects
- 1.2.2 Number Objects
- 1.2.4 String objects
- 1.3 Use of function expressions and function declarations
- 1.4 Attach function expression and function declaration to events
- 1.5.1 Register listeners that manipulate the DOM
- 1.5.2 Register event listeners that validate data

Description

Airline Booking System.



Instructions.

- Download the Starter Project as a ZIP from D2L and extract the test folder with three files (HTML file, CSS file, and JavaScript file).
- o Run the code to ensure that it matches Screen Shot #1. (Before you start).
- Follow Instructions for each screen shot and add the necessary JavaScript to ensure that
 it produces the correct results for each screen shot. The screen shots must be done in
 sequence. Preview all 12 screen shots to make note of all 4 Error Checking requirements.
 - Valid JavaScript Code requirements are on the last pages of this document.
- You are not allowed to modify the HTML or CSS code in any way. This action would void the test.
- Create a Word Document and include the following:
 - Your Name, Student Number
 - Save document as Your Name
 - ALL 12 required Screen shots with an identifying Number from 1 to 12. (One per Page)
 - On Last Page(s) a copy of the JavaScript used.
 - Copy and Paste as Text. DO not use a screen shot for the code.
 - The grading will be based solely on this code.
 - This code may be copied onto test computer to validate grading by grader. All 12 Screen shot tests will be run in sequence.
- Check the grading rubric to verify that you have covered all of the listed points to maximize your grade.

No Error Function Test - F1 (Testing of the downloaded code). Screen should match without any modifications to the code.

Flight Ticke	et Booking
Name:	*
Seats:	*
Seat Count:	*
	Process Clear

First Ticket purchased.

No Error Function Test – F2

- 1. Use the first 4 letters of your name as name: (Your discretion as to which part of your name you wish to use).
- 2. Seats: Set to 3
- 3. Select Process

Code Required:

- (1) Read the 2 Text Fields (Name and Seat)
- (2) Add the contents to the Text Area.
- (3) Update the Seat Count Text Area with the total number of seats

Flight Ticke	et Booking	
Name:	INST	
Seats:	3	
Seat Count:	3	
	Process Clear	
Output INST 3		

No Error Function Test – F3

1. Press CLEAR

Code required:

- (1) Clear the contents of all three text fields
- (2) Clear the contents of the text area
- (3) If you are maintaining a seat count variable, then reset it to zero.

Flight Ticke	t Booking	
Name:		
Seats:		
Seat Count:		
	Process Clear	

Do not use the Clear button for the remainder of the screen shots sequence.

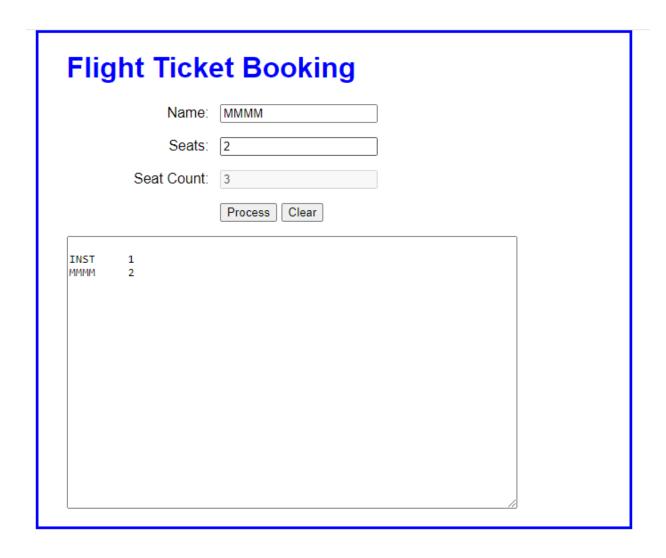
No Error Function Test F4

- 1. Use the first 4 letters of your name as Name (Your discretion as to which part of your name you wish to use).
- 2. Seats: Set to 1
- 3. Select Process

Flight Ticke	et Booking
Name:	INST
Seats:	1
Seat Count:	1
	Process Clear
INST 1	

No Error Function Test F5

- 1. Use "MMMM" as Name
- 2. Seats: Set to 2
- 3. Select Process



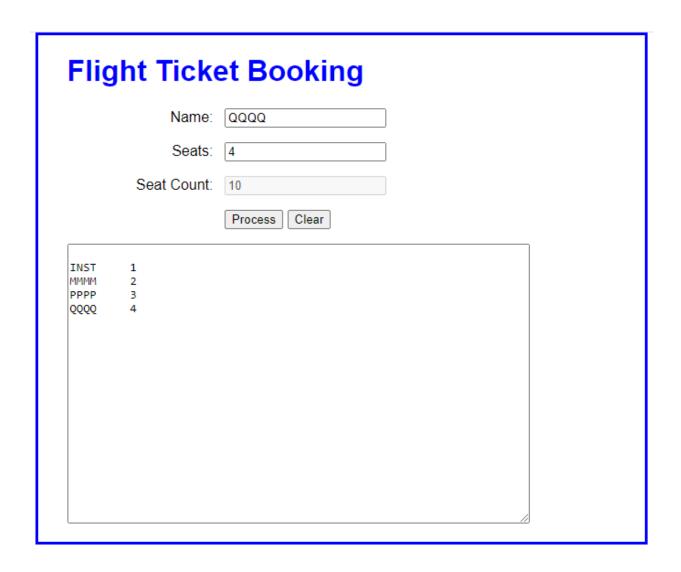
No Error Function Test F6

- 1. Use "PPPP" as Name
- 2. Seats: Set to 3
- 3. Select Process

Flight Tic	ket Booking	
Na	ne: PPPP	
Se	ts: 3	
Seat Co	nt: 6	
	Process Clear	
INST 1 MMMM 2 PPPP 3		

No Error Function Test F7

- 1. Use "QQQQ" as Name
- 2. Seats: Set to 4
- 3. Select Process



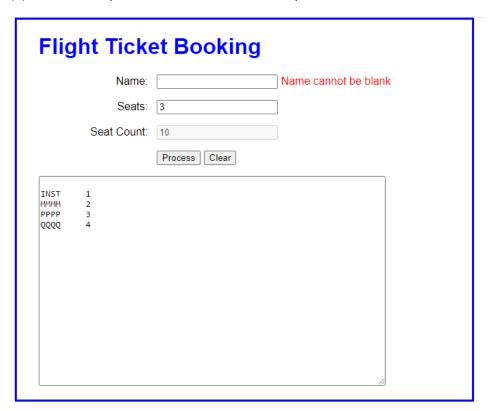
Some Error Testing

Blank NAME TEST – Rule #1 application - Name Text Field cannot be blank.

- 1. BLANK out Name Text field
- 2. Seats: Set to 3
- 3. Select Process

Error Test E1

- (1) Check Name Text field for Blank.
- (2) If Blank then set appropriate element message correctly
- (3) Blank the Name Text.
- (4) Do not modify other two text fields or modify text area.



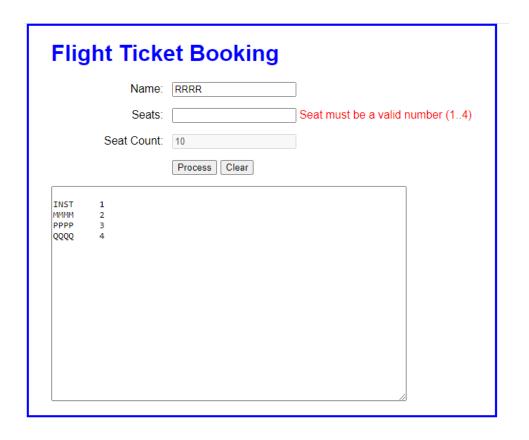
Some Error Testing

Blank NAME TEST Rule #2 Application – Seat Text Field cannot be blank.

- 1. Use "RRRR" as Name
- 2. Blank out Seat Text Field
- 3. Select Process

Error Test E2

- (1) Check Seat Text field for Blank.
- (2) If Blank then set appropriate element message correctly
- (3) Blank the Seat Text.
- (4) Do not modify other two text fields or modify text area.



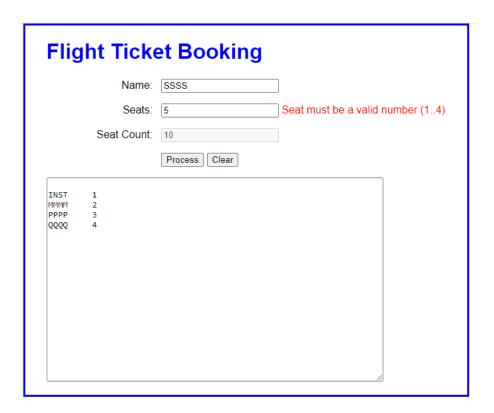
Some Error Testing Rule #3 – Seat Range is 1 to 4 (inclusive)

Testing for 'Out of Range' Seat Value

Error Test E3

- 1. Use "SSSS" as Name
- 2. Seats: Set to 5
- 3. Select Process

- (1) Check Seat Value for out of range
- (2) If 'Out of Range' then set appropriate element message correctly
- (3) Blank the Seat Text.
- (4) Do not modify other two text fields or modify text area.



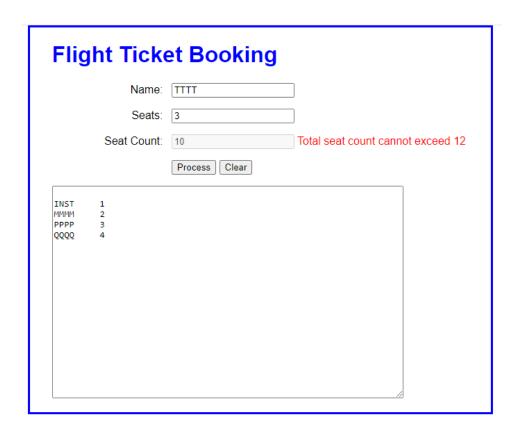
Some Error Testing Rule #4 – Total seat count cannot exceed 12

Testing for total seat count limit exceeds 12

Error Test E4

- 1. Use "TTTT" as Name
- 2. Seats: Set to 3 (If this was processed then the total seat count would go to 13. This is not allowed)
- 3. Select Process

- (1) Check for potential 'total seat count' situation where the count would exceed 12
- (2) If a 'total seat count' situation would occur then set appropriate element message correctly
- (3) DO NOT BLANK anything
- (4) Do not modify any text fields or text area



Screenshot 12

Last Screen Shot

Booking the last 2 seats.

	Name:	VVVV	
	Seats:	2	
	Seat Count:	12	
		Process Clear	
INST	1 2		
PPPP QQQQ	3 4		
VVVV	2		

No Error Function Test F8

- 1. Use "VVVV" as Name
- 2. Seats: Set to 2
- 3. Select Process

Code requirements: (None)

Clue Up reminder

- (1) Be sure that you have all screen shots collected and copied into your word document with the Screen Shot Number indicated for EACH of the 12 screen shots. They must be done in sequence.
- (2) Be sure that you have copied your JavaScript code (as TEXT) into the word document. Do Not use Screen shots for this step. The grading instructor may copy (as TEXT) your java script code and run it on a test computer as part of the grading. IF the text of the JavaScript cannot be extracted because it is graphics, the text may be void.
- (3) Upload your completed Word Document back to D2L

End of Test.

Grading Rubric

CP1295 Test 01	Advanced JavaScript	100	
S01	Initial Screen Working Test	5	5
S02	First Ticket Purchased Student Name Used Field Data Collected Field Data Displayed Seat Count Updated	20	5 5 5 5
S03	Clear Button All text Fields blanked Text Area blanked	10	5 5
S04	First Ticket Test - Take 2 Seat Count reset worked in previous step	5	5
S05	Second Ticket Test Text Area update correct Seat Count correct	3	1 2
S06	Third Ticket Test Text Area update correct Seat Count correct	3	1 2
S07	Fourth Ticket Test Text Area update correct Seat Count correct	3	1 2
S08	Blank Name Error Test E1 Correct Error Message Displayed Other Text Fields - Not Changed Seat Count - Not Changed Text Area - Not Changed	12	6 2 2 2
S09	Blank Seat Error Test E2 Correct Error Message Displayed Other Text Fields - Not Changed Seat Count - Not Changed Text Area - Not Changed	12	6 2 2 2
S10	Out of Bounds Seat Error Test E3 Correct Error Message Displayed Other Text Fields - Not Changed Seat Count - Not Changed Text Area - Not Changed	12	6 2 2 2
S11	Total Seat Count Error Test E4 Correct Error Message Displayed No Text Fields are Changed Seat Count - Not Changed	12	6 2 2
S12	Fifth ticket test - Last 2 Seats Booked Text Area update correct Seat Count correct	3	1 2

Test 01- Scope Rules

Inclusions

(1) Code must be based on code demonstrated in this course or its pre-requisite course(s)

Course Text Book

Course Notes

Course Handouts

Exclusions

- (2) Code must follow the following exclusion rule(s)
- a. Note: getElementByID, getElementByTag, innerHTML, outerHTML are not permitted in this course.
- b. Where DOM element selection is required use only:
 - i. document.querySelector(sel)
 - ii. document.querySelectorAll(sel)

Other Rules

- (3) You are not allowed to modify HTML document (Test may be declared void)
- (4) You are not allowed to modify CSS document (Test may be declared void)

Submission Rules

(5) JavaScript must be copied and pasted into Word Document as TEXT. Use of Screen shot for the JavaScript may void the test as this will may render the JavaScript unreadable for grading purposes.

End of Test Documentation