Assignment 1 - Question 1

ICT373

Callum Peel – 34217062

Brief description

A web page made from JavaScript and HTML which collects user information and sends this information to a server.

This will involve using input validation and data manipulation.

Description of solution

Firstly I filled out the webpage with headers and paragraphs.

I then worked out exactly what input boxes were needed and got them on the page.

The next step was to lay out the functions needed to achieve proper input validation.

checkForm(form) – Used as a final check when posting the form.

> Calls each function and uses the collection of Boolean return statements to use in assessing if the form is posted.

isName(field) – Checks if name is a reasonable length.

> If the length of the field value is over 50 it will return false.

isWord(field) – Checks if the name consists of only letters.

> Uses Regex to ensure letters are used from start (^) to finish ($)

isEmpty(field) – Checks if input box is empty.

> Simple null check returning Boolean value.

isPhoneNumber(field) – Uses regular expressions to implement area code formatting.

> Assuming the phone number is Australian and starts in +61 followed by 9 numbers.
>
> This system strips space chars and assesses the value using regex.
>
> Value should start with a plus sign (^[+]) followed by 11 digits(\d{11}).
>
> The 11 digits should be the end of this format. This is enforcing with a $ symbol.

isDate(field) – Uses regular expressions to implement dd/mm/yyyy and dd-mm-yyyy.

> Similarly, this enforces a format with regex.

isParagraph(field) – Ensures paragraphs are not too long (above 250 chars)

> Very basic length check to ensure the paragraph is not very long.

I wanted 2 types of data validation:

- On change
- On submit

This ensures that servers aren't doing unnecessary work as this is not scalable/desirable/cost effective, etc.

Testing

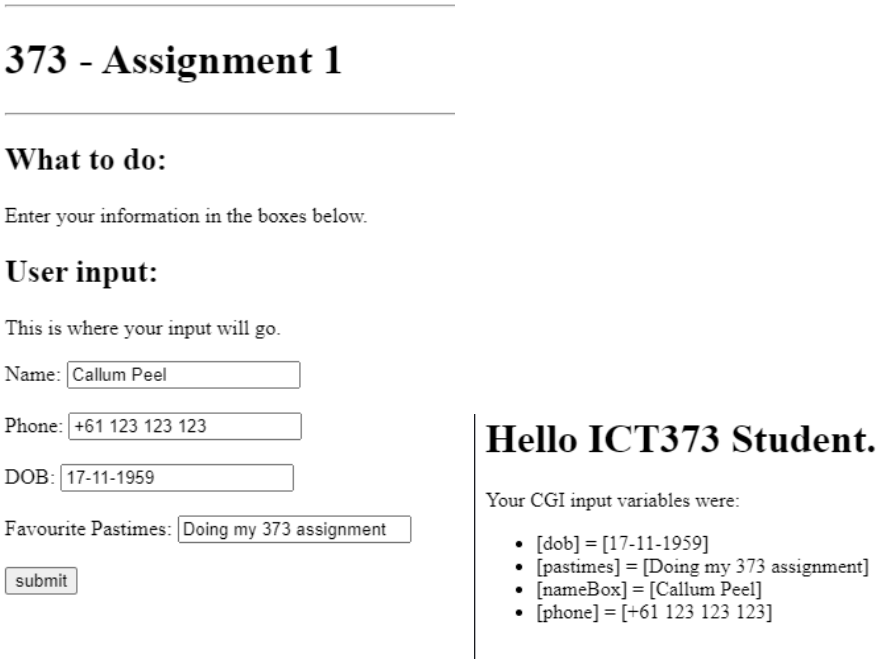
TestID	Description	Data	Expected Output	Result	Pass/Fail
1	Test correct input posts	Callum Peel +61 123 123 123 17-11-1959 Doing my 373 assignment	Data posted	Data posted	Pass
2	No input	No input	Alert "Enter something"	Alert "Enter something"	Pass
3	Only correct name input	Callum Peel	Alert "Enter something"	Alert "Enter something"	Pass
4	Only correct name and date	Callum Peel 11/11/1991	Alert "Enter something"	Alert "Enter something"	Pass
5	numbers in name	Callum P33l	Alert "Letters Only"	Alert "Letters Only"	Pass
6	Symbols in name	Callum P##L	Alert "Letters Only"	Alert "Letters Only"	Pass
7	White space for name	(White space)	Alert " Entry cannot be empty space"	Alert " Entry cannot be empty space	Pass
8	White space for Phone	(White space)	Alert " Entry cannot be empty space"	Alert " Entry cannot be empty space	Pass
9	White space for DOB	(White space)	Alert " Entry cannot be empty space"	Alert " Entry cannot be empty space	Pass
10	White space for Favourite pastimes	(White space)	Alert " Entry cannot be empty space"	Alert " Entry cannot be empty space	Pass
11	Correct name. Letters in phone number	abc	Phone number format alert	Phone number format alert	Pass*
12	Phone number correct but no '+'	61 123 123 123	Phone number format alert	Phone number format alert	Pass
13	Phone number correct but with many spaces	+ 6 1 1 2 3 1 2 3 1 2 3	Phone number passes validation	Phone number passes validation	Pass
14	Phone number has letters	+61 abc 123 123	Phone number	Phone number format alert	Pass

	midway through		format alert		
15	Year format incorrect in date entry	12/12/12	Date format alert	Date format alert	Pass
16	Letters in the year part of date entry	12/12/abc	Date format alert	Date format alert	Pass
17	Second date format works	12-12-2021	Passes validaiton	Passes validaiton	Pass
18	Unreasonable date values entered in correct format	99/99/9999	Passes validation	Passes validaiton	Pass*
19	Symbols in correct date format	11/&@/2021	Date format alert	Date format alert	Pass
20	Correct pastime input	“Doing 373 Assignments”	Passes validaiton	Passes validaiton	Pass
21	Symbols input for pastimes	“!@#$%^&*”	Passes validaiton	Passes validaiton	Pass
22	250 ‘a’ chars enteredin pastimes	a (250 times)	Passes validaiton	Passes validaiton	Pass
23	251 ‘a’ chars enteredin pastimes	a (251 times)	Passes validaiton	Passes validaiton	Pass

**This is the expected output; however, this is not a desirable output.*

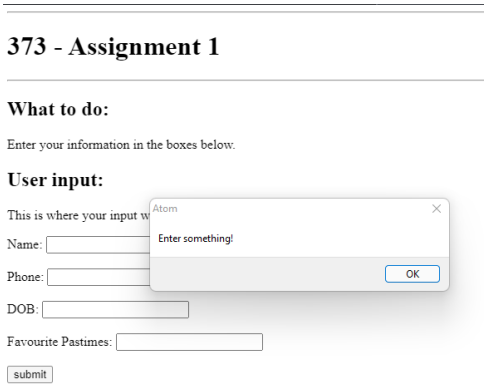
Test proof

1.

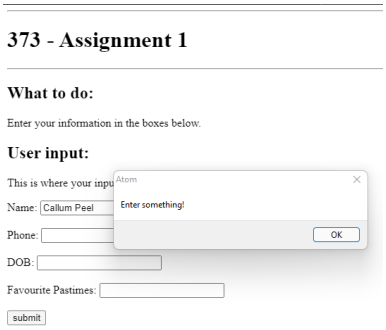


2.

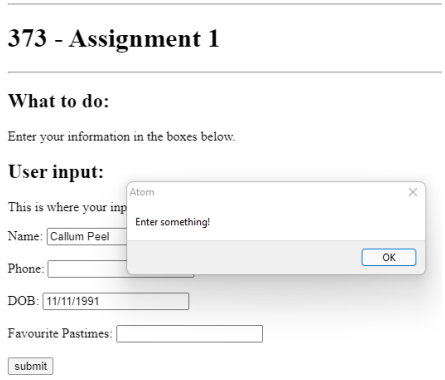
373 - Assignment 1
What to do:
Enter your information in the boxes below.
User input:
This is where your input will go.
Name:
Phone:
DOB:
Favourite Pastimes:
submit


373 - Assignment 1
What to do:
Enter your information in the boxes below.
User input:
This is where your input w
Atom
Enter something!
OK
Name:
Phone:
DOB:
Favourite Pastimes:
submit

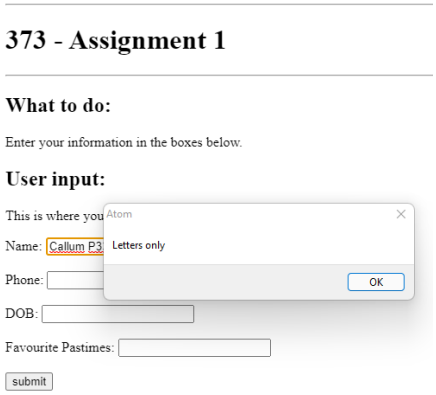
3.


373 - Assignment 1
What to do:
Enter your information in the boxes below.
User input:
This is where your inpu
Atom
Enter something!
OK
Name: Callum Peel
Phone:
DOB:
Favourite Pastimes:
submit

4.


373 - Assignment 1
What to do:
Enter your information in the boxes below.
User input:
This is where your inp
Atom
Enter something!
OK
Name: Callum Peel
Phone:
DOB: 11/11/1991
Favourite Pastimes:
submit

5.


373 - Assignment 1
What to do:
Enter your information in the boxes below.
User input:
This is where you
Atom
Letters only
OK
Name: Callum P3
Phone:
DOB:
Favourite Pastimes:
submit

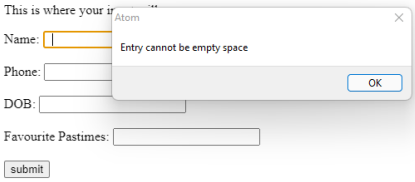
6.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:



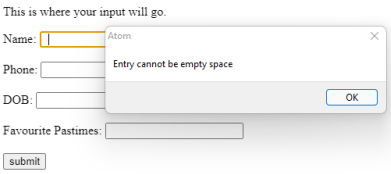
7.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:



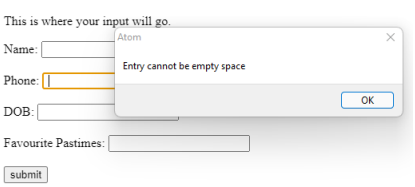
8.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:



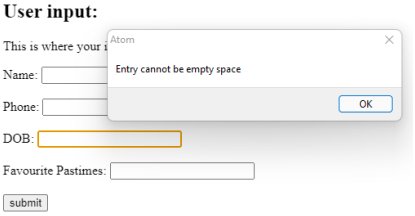
9.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:



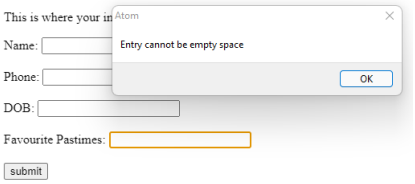
10.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:



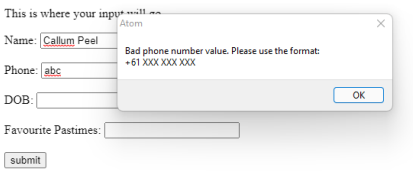
11.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:



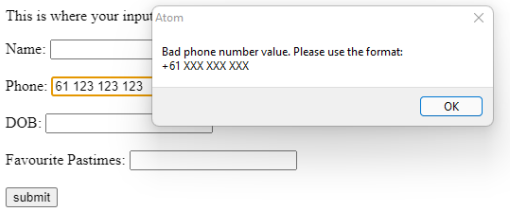
12.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:



13.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:

This is where your input will go.

Name:

Phone: + 6 1 1 2 3 1 2 3 1 2 3

DOB:

Favourite Pastimes:

submit

14.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:

This is where your input will go.

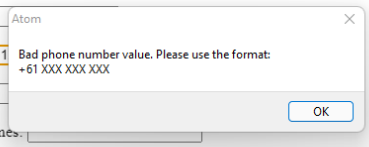
Name:

Phone: +61 abc 1

DOB:

Favourite Pastimes:

submit



15.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:

This is where your input will go.

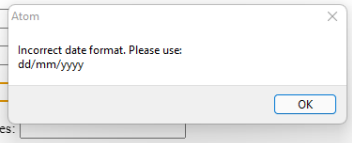
Name:

Phone:

DOB: 11/12/12

Favourite Pastimes:

submit



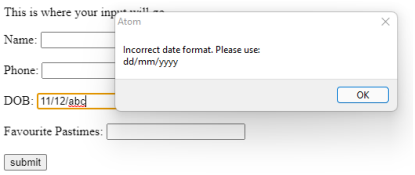
16.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:



17.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:

This is where your input will go.

Name:

Phone:

DOB: 12-12-2021

Favourite Pastimes:

submit

18.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:

This is where your input will go.

Name:

Phone:

DOB: 99/99/9999

Favourite Pastimes:

submit

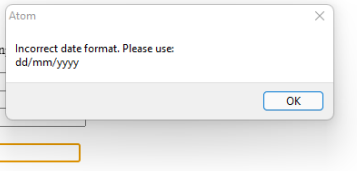
19.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:



This is where your in

Name:

Phone:

DOB: 11/&@/2021

Favourite Pastimes:

submit

20.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:

This is where your input will go.

Name:

Phone:

DOB:

Favourite Pastimes: Doing 373 Assignments

submit

21.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:

This is where your input will go.

Name:

Phone:

DOB:

Favourite Pastimes: !@#$%^&*

submit

22.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:

This is where your input will go.

Name:

Phone:

DOB:

Favourite Pastimes: aaaaaaaaaaaaaaaaaaaaa

submit

23.

373 - Assignment 1

What to do:

Enter your information in the boxes below.

User input:

This is where your inpu

Atom

Paragraph too long.

OK

Name:

Phone:

DOB:

Favourite Pastimes: aaaaaaaaaaaaaaaaaaaaa

submit