Assignment 1 - Question 1

ICT373

Callum Peel – 34217062

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## 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 midway through | +61 abc 123 123 | Phone number format alert | Phone number format alert | Pass |
| 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.

Graphical user interface, application

Description automatically generated Text

Description automatically generated

2.

Graphical user interface, application

Description automatically generated Graphical user interface

Description automatically generated with medium confidence

3.

Graphical user interface, application

Description automatically generated

4.

Graphical user interface, text, application

Description automatically generated

5.

Graphical user interface, application

Description automatically generated

6.

Graphical user interface, application

Description automatically generated

7.

Graphical user interface, application

Description automatically generated

8.

Graphical user interface, application

Description automatically generated

9.

Graphical user interface, application

Description automatically generated

10.

Graphical user interface, application

Description automatically generated

11.

Graphical user interface, text, application

Description automatically generated

12.

Graphical user interface, text, application

Description automatically generated

13.

Graphical user interface, application

Description automatically generated

14.

Graphical user interface, application

Description automatically generated

15.

Graphical user interface, application

Description automatically generated

16.

Graphical user interface, application

Description automatically generated

17.

Graphical user interface, application

Description automatically generated

18.

Graphical user interface, application

Description automatically generated

19.

Graphical user interface, application

Description automatically generated

20.

Graphical user interface, application

Description automatically generated

21.

Graphical user interface

Description automatically generated with medium confidence

22.

Graphical user interface, text, application

Description automatically generated

23.

Graphical user interface, text, application

Description automatically generated