

/\*

*Pseudocode.*

*By Ma Ya*

*Date Updated: 11/10/2023*

\*/

## PSEUDOCODE

The following is a pseudocode program outlining the Review, Validate, and Check Data functionalities for an engaging web page experience.

### [reviewPage.js](#)

#### Display Current Data and Time

get current date and time from the system clock and store it as variable.

Define the display option to be mm/dd/yyyy, hh:mm:ss <AM>

Display the current Date and Time on the main browser page.

#### Review First Names (for Patient, Emergency Contact and Doctor)

get the first names data from the form by id input as key and store it as variable.

If there are no first name values,

Is it required?

- ✓ Yes: set message to inform it is a required field.
- ✓ No: nothing displayed on the review

Check if the names value to be 1 to 30 characters: Letters, apostrophes and dashes only.

- ✓ Yes: set a PASS message
- ✓ No: set message Invalid firstname like - use 1 to 30 characters: Letters, apostrophes, and dashes

Display the field name value and the message on the pop-up review page.

#### Review Last Name (for Patient, Emergency Contact and Doctor)

get the last names data from the form by id from the input as key and store it as variable.

If there are no last name values,

Is it required?

- ✓ Yes: set message to inform it is a required field.
- ✓ No: nothing displayed on the review

Check if the names value to be 1 to 30 characters: Letters, apostrophes and dashes only.

- ✓ Yes: set a PASS message

- ✓ No: set message Invalid lastname like - use 1 to 30 characters: letters, spaces, apostrophes, numbers 2 to 5 and dash

Display the field name value and the message on the pop-up review page.

#### **Review Middle Name (for Patient only)**

get the middle name data from the form by id from the input as key and store it as variable.

Check if the middlename value is 1 Letter.

- ✓ Yes: set a PASS message
- ✓ No: set message like - use only a letter

Display the field name value and the message on the pop-up review page.

#### **Review Date of Birth**

get the Date of birth data from the form by id from the Date input as key and store it as variable.

Is date of birth selected?

- ✓ Yes: go to the next step
- ✓ No: set message to inform it is a required field.

Is Date of birth between 0 and 120 years?

- ✓ Yes: set a PASS message
- ✓ No:

Is the given data > today's date?

- ✓ Yes: set message like - Birth date cannot be in the future
- ✓ No: go to the next step

Is the given date of birth doesn't exceed 120 years

- ✓ Yes" set message like - birth date can't be before 120 years
- ✓ No: go to the next step

Display the field name value and the messages on the pop-up review page.

#### **Review Address (Line 1, Line 2 and City)**

get the addr1 and addr2 data from the form by id input as key and store it as variable.

Is addr1 has value?

- ✓ No: set message to inform it is a required field.
- ✓ Yes: go to the next step

Does addr1 and addr2 values to be 2 to 30 characters?

- ✓ Yes: set a PASS message
- ✓ No: set message Invalid address and set message like - use 2 to 30 characters: Letters, apostrophes and dash

Display the field name value and the message on the pop-up review page.

#### **Review email**

get the email data from the form by id from the input as key and store it as variable.

Check if the email value contains the '@'

- ✓ Yes: go to the next step
- ✓ No: set message like - the email address needs the '@'

Is the email value has at least two characters?

- ✓ Yes: set a PASS message
- ✓ No: set message like - use 6 - 20 characters: letters, digits, dots, @ and hyphens

Display the field name value and the message on the pop-up review page.

### **Review Phone numbers (Patient, Emergency contact and Doctor)**

get the phones number data from the form by id from the input as key and store it as variable.

If there is no phone data,

Is it required?

- ✓ Yes: set message to inform it is a required field.
- ✓ No: nothing displayed on the review

Does the user enter ten digits number in any form?

- ✓ Yes: set a PASS message
- ✓ No: set a message like - se 10 digits number with dashes or spaces

Display the field name value and the message on the pop-up review page.

### **Review Reason to visit**

get the reason data from the form by id input as key and store it as variable.

Is there data value for reason?

- ✓ Yes: go to the next step
- ✓ No: set message to inform it is a required field.

Check if the reason values to be 5 to 50 characters?

- ✓ Yes: set a PASS message
- ✓ No: set message Invalid reason like - use 5 to 50 characters: Letters, space and full stop

Display the field name value and the message on the pop-up review page

### **Review username**

get the username data from the form by id input as key and store it as variable.

Is there a data value for username?

- ✓ Yes: go to the next step
- ✓ No: set message to inform it is a required field.

Is the username start with number?

- ✓ Yes: set message like - username can't start with number

- ✓ No: go to the next step

Does username had 5 to 30 characters?

- ✓ Yes: set a PASS message
- ✓ No: set message Invalid username like - use 5 to 30 characters: Letters, numbers without space

Display the field name value and the message on the pop-up review page.

### **Review password/confirmpassword**

get the password data from the form by id input as key and store it as variable.

Is there a value for password?

- ✓ Yes: go to the next step
- ✓ No: set message to inform it is a required field.

Check if the password has 8 - 30 characters?

- ✓ Yes: set a PASS message
- ✓ No: set message Invalid password like - use 5 to 30 characters: Letters, numbers without space

Is there a value for confirmpassword?

- ✓ Yes: go to the next step
- ✓ No: set message to inform the user to confirm the password

Are the password and confirmpassword the same?

- ✓ Yes: set a password match message
- ✓ No: set a password does not match message

Display the field name value and the message on the pop-up review page.

### **Adding reCAPTCHA**

Get Recaptacha site key

Add event listener to the Submit button using the key

Define onReCAPTCHASuccess function

Is reCaPTCHA excuted?

Yes: activate the Submit button

NO: Disable the submit button

### **validateData.js**

#### **Validate First Name (for Patient, Emergency Contact and Doctor)**

get the firstname value from the input element with the given id and store it as variable.

compare the value with the regex = `^[A-Za-z' -]{1,30}$`

is value match the regex?

- ✓ Yes: return and display nothing

- ✓ No: display errorMessage like - Invalid Firstname, use characters 1-30: Letters, apostrophes, and dashes

is the user correct the invalid data?

- ✓ Yes: clear the error message from the page
- ✓ No: Leave the error message on the page

### **Validate Last Name (for Patient, Emergency Contact and Doctor)**

get the lastname value from the input text element with the given id and store it as variable.

compare the value with the regex = `^(?:[A-Za-z'\s]{1,30}|[A-Za-z'\s]{1,30}([A-Za-z'\s]{1,30})*(2nd|3rd|4th|5th)))$`;

is value match the regex?

- ✓ Yes: return and display nothing
- ✓ No: display errorMessage like - Invalid Lastname, use Letters, apostrophes, dashes and numbers 2 to 5

is the user correct the invalid data?

- ✓ Yes: clear the error message from the page
- ✓ No: Leave the error message on the page

### **Validate Middle Name (for Patient)**

get the middlename value from the input text element with the given id and store it as variable.

compare the value with the regex = `^[A-Za-z]$`;

is value match the regex?

- ✓ Yes: return and display nothing
- ✓ No: display errorMessage like - Invalid Middlename, use a Letter!

is the user correct the invalid data?

- ✓ Yes: clear the error message from the page
- ✓ No: Leave the error message on the page

### **Validate Date of birth**

get the dateofbirth value from the input data element with the given id and store it as variable.

convert the given date of birthvalue to years.

is years less than 0?

- ✓ Yes: return and display nothing
- ✓ No: display errorMessage like - birth date can't be in the future

is years greater than 120?

- ✓ Yes: display errorMessage like - birth date can't exceed 120 years
- ✓ No: return and display nothing

### **Validate Address (Line-1, Line-2 and City)**

get the address values from the input text element with the given id and store it as variable.

compare the value with the regex = `^[0-9a-zA-Z\s]{2,30}$`;

is value match the regex:

- ✓ Yes: return and display nothing
- ✓ No: display errorMessage like - use 2-30: letters, numbers and spaces

### **Validate Zipcode**

get the zipcode values from the input text element with the given id and store it as variable.

Is the number of digits in the value = 5?

- ✓ Yes: return and display nothing
- ✓ If no, is the digits > 5?
  - Yes: truncate the data and replace the value with only the first five digits
  - No: display errorMessage like - Zip code requires 5 digits

### **Validate email**

get the email values from the input text element with the given id and store it as variable.

compare the value with the regex = `^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$`;

is value match the regex?

- ✓ Yes: return and display nothing
- ✓ No: display errorMessage like - use a valid email in the format  
name@domain.ltd

### **Validate Phone Numbers (Patient, Emergency contact and Doctor's)**

get the phone values from the input text element with the given id and store it as variable.

Is the value has 10 digits

- ✓ Yes: reformat the digit to (xxx) xxx-xxxx format and returns nothing as error message
- ✓ No: display error message like - Please enter a 10-digit number.

### **Validate insurance name**

get the insurance name value from the input text element with the given id and store it as variable.

compare the value with the regex = `^[A-Za-z\s'-]+$`;

is value match the regex?

- ✓ Yes: return and display nothing
- ✓ No: display errorMessage like - use letters, dashes, apostrophe and space

### **Validate insurance ID**

get the insurance id value from the input text element with the given id and store it as variable.

compare the value with the regex = `^[A-Za-z0-9_-]{5,20}$`;

is value match the regex?

- ✓ Yes: return and display nothing

- ✓ No: display errorMessage like - use letters, numbers, dashes and underscores, no space

### Validate reason to visit

get the reason value from the input text element with the given id and store it as variable.

compare the value with the regex = `^[A-Za-z\s\.-]+$`;

is value match the regex?

- ✓ Yes: return and display nothing
- ✓ No: display errorMessage like - Please use letters, dashes and space

### Validate username

get the username value from the input text element with the given id and store it as variable.

compare the value with the regex = `^[A-Za-z][A-Za-z0-9_-]{4,29}$`;

Is the username start with number?

- ✓ Yes: display errorMessage like - username can't start with a number.
- ✓ No: is value match the regex?
  - Yes: return and display nothing
  - No: display errorMessage like - use 5-20 characters: letters, numbers, dash, or underscore

### Validate password

get the password data from the form by id input as key and store it as variable.

Is the password the same as the username?

- ✓ Yes: display error message like - Password cannot be the same as your username
- ✓ No: return and display nothing

Does the password has 8 - 30 characters?

- ✓ Yes: return and display nothing as error message
- ✓ No: display error message like - use at least 8 characters long with at least 1 upper case, 1 lower case letter and 1 digit

Does confirmPassword is the same password?

- ✓ Yes: return and display nothing
- ✓ No: display error message like - Passwords do not match

### Adding API

Go to the reCAPTCHA website register the site

Get the sitekey

Get the submit button by ID

Use the site Key and add reCAPTCHA

Is the reCAPTCHA box checked?

- ✓ yes, submit the form
- ✓ no, remind the submit button disabled.

## cookiesData.js

1. **To display Welcome firstname as the page refreshed after there is firstname input.**

Initialize a variable to track page refresh.

isPageRefreshed = false

Get firstname by ID from the input field

and set up the firstname cookies

Add Eventlistener that get the firstname cookies

Display the Welocme message.

2. **To store users information for easy retrieval from local storage**

Define variables for username, firstname, lastname, Dateof birth and reason to visit.

Set a localStorage to store these variables from the form input when submit

Accept input: firstname, username

Check firstname and username with local storage data

If equal display

Are you firstname?

If yes display do you want to register again or update

If no display click cancel and continue the registration