



LAB -2

FULL STACK WEB DEVELOPMENT

BSSE- 6B

Presented by:

Tayyab Janjua (231736)

Presented to:

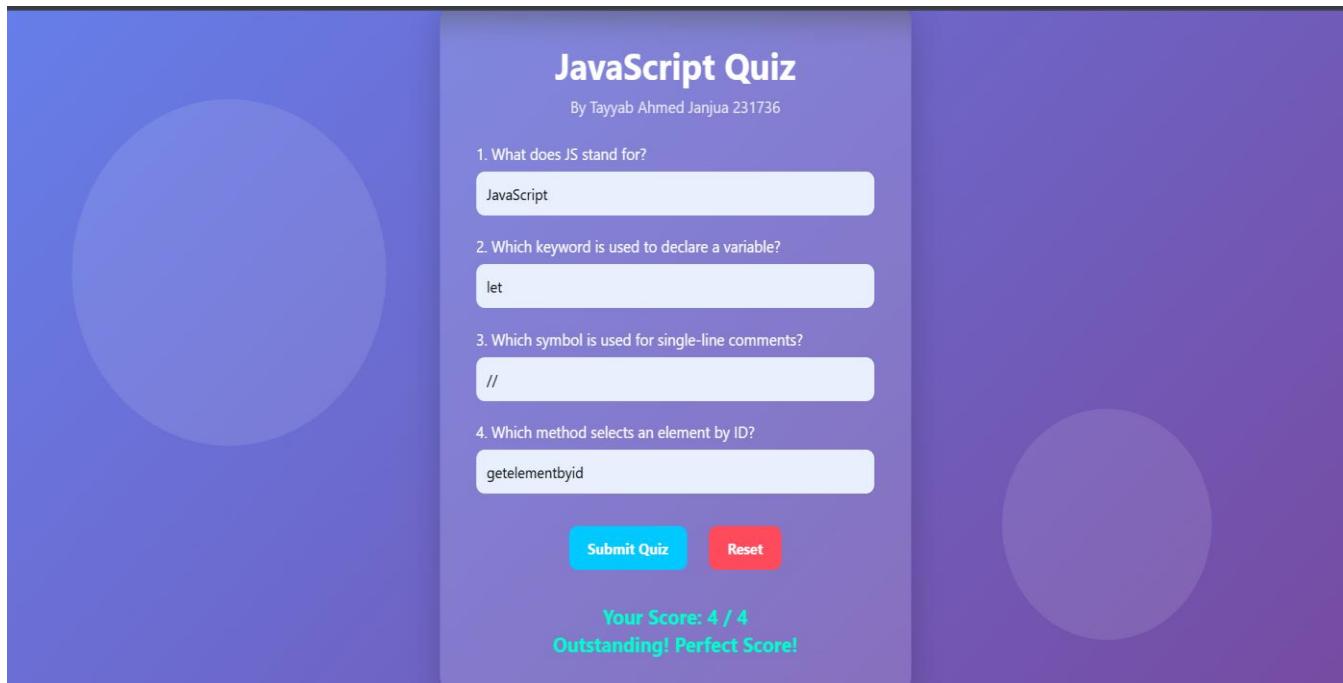
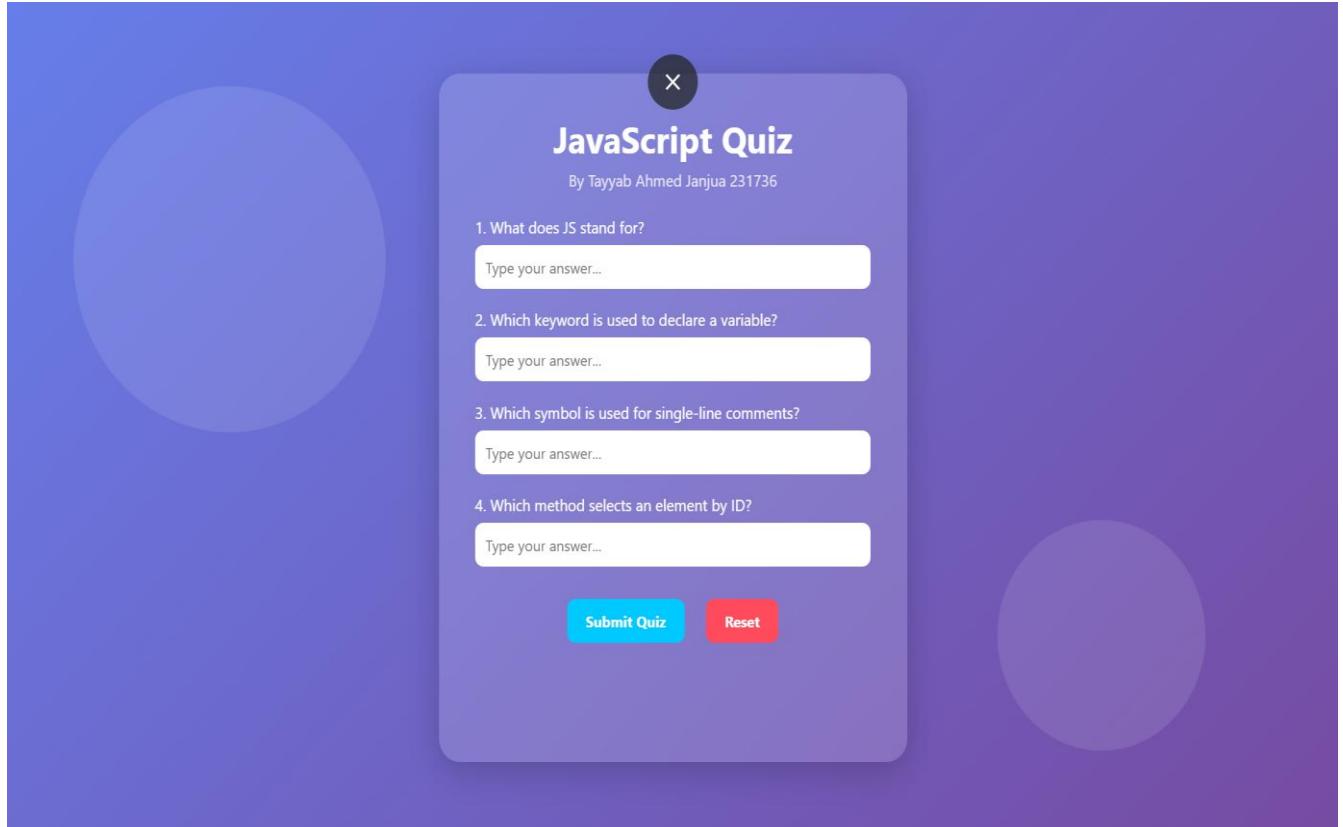
Mr. Shareef Hussain



Github Link for All the tasks: <https://github.com/RajaaTayyab/Full-Stack-Programming-Lab>

Screenshots

Task 1: JavaScript Quiz



JavaScript Quiz

By Tayyab Ahmed Janjua 231736

1. What does JS stand for?
JavaScript

2. Which keyword is used to declare a variable?
Type your answer...

3. Which symbol is used for single-line comments?
//

4. Which method selects an element by ID?
getelementbyid

Submit Quiz **Reset**

Your Score: 3 / 4
Great effort! Keep improving!

JavaScript Quiz

By Tayyab Ahmed Janjua 231736

1. What does JS stand for?
JavaScript

2. Which keyword is used to declare a variable?
Type your answer...

3. Which symbol is used for single-line comments?
Type your answer...

4. Which method selects an element by ID?
Type your answer...

Submit Quiz **Reset**

Your Score: 1 / 4
Don't worry! Practice makes perfect!

Task 2: Basic Calculator

A screenshot of a web browser displaying a basic calculator application. The title bar shows the URL `127.0.0.1:5500/Lab_02-JS-Interactivity/Task%202/index.html`. The main content area is titled "Basic Calculator" and credits "By Tayyab Ahmed Janjua 231736". It features two input fields ("Enter first number" and "Enter second number"), a dropdown menu set to "Addition (+)", a blue "Calculate" button, and a grey box below it stating "Result will appear here".

A screenshot of the same web browser showing the calculator application after input. The first input field contains "10", the second contains "20", and the dropdown menu remains at "Addition (+)". The "Calculate" button is visible. Below the input fields, a grey box displays the result "Result: 30".

A screenshot of the web browser showing the calculator application performing a division operation. The first input field contains "30", the second contains "20", and the dropdown menu is set to "Division (/)". The "Calculate" button is visible. Below the input fields, a green box displays the result "Result: 1.5".

Bonus: Changing Color on 0 and negative values

```
39     if (result > 0) {  
40         resultBox.style.backgroundColor = "#d4edda";  
41     }  
42     else if (result < 0) {  
43         resultBox.style.backgroundColor = "#f8d7da";  
44     }  
45     else {  
46         resultBox.style.backgroundColor = "#fff3cd";  
47     }  
48 }
```

0 value

Basic Calculator
By Tayyab Ahmed Janjua 231736

20

Multiplication (x)

0

Calculate

Result: 0

Negative Value

Basic Calculator
By Tayyab Ahmed Janjua 231736

30

Subtraction (-)

50

Calculate

Result: -20

Task 3: Simple Todo list

The screenshot shows a web browser window with the URL `127.0.0.1:5500/Lab_02-JS-Interactivity/Task%203/index.html`. The page title is "To-Do List" and it is attributed to "By Tayyab Ahmed Janjua 231736". The list contains three items:

- Complete JavaScript Lab (status: Complete, button: Remove)
- Practice DOM Manipulation (status: In Progress, button: Remove)
- Submit Assignment (status: In Progress, button: Remove)

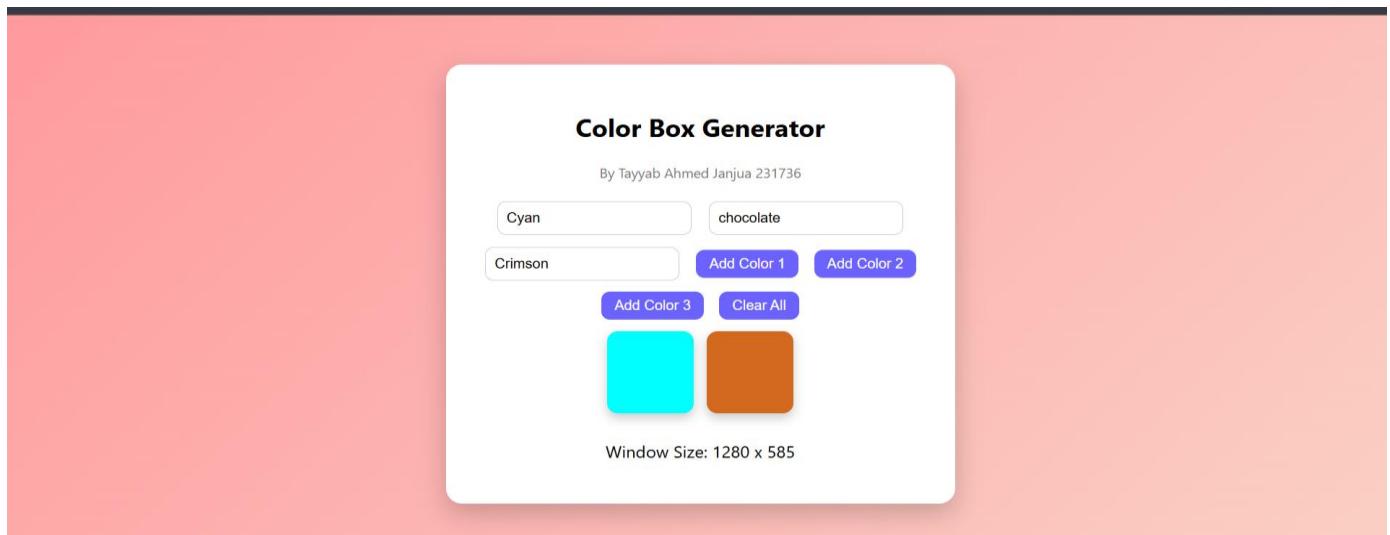
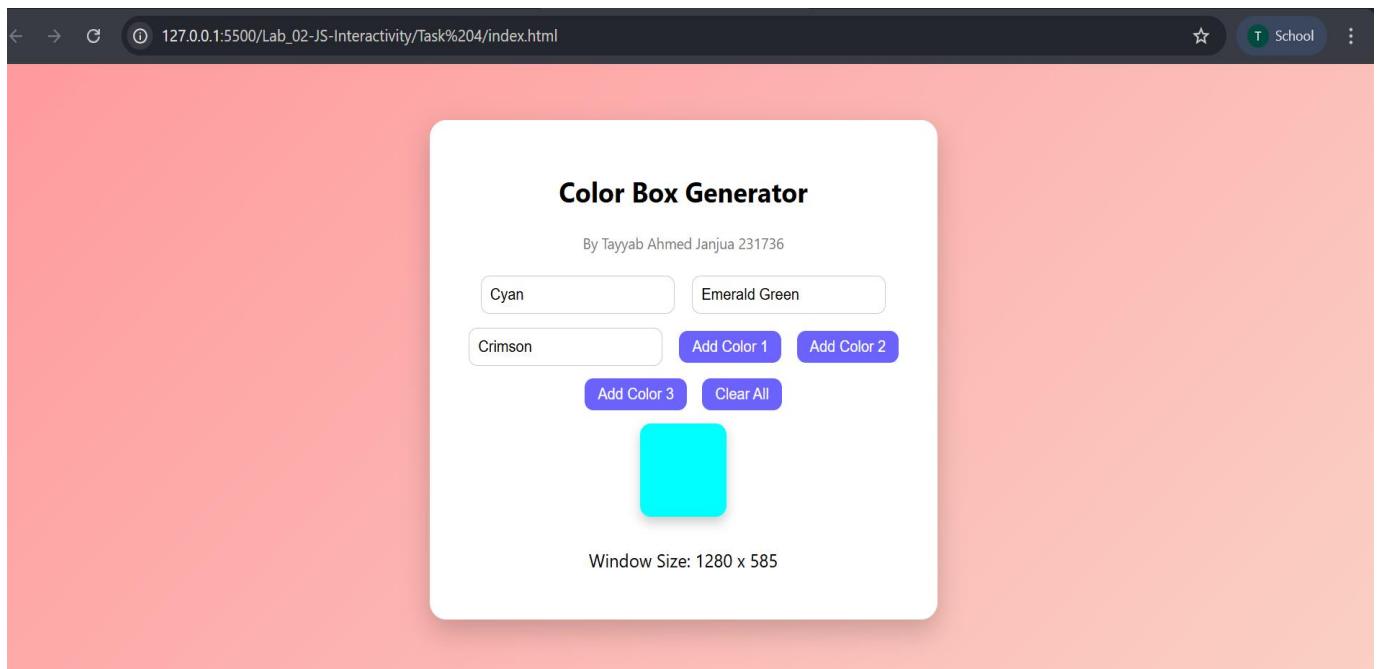
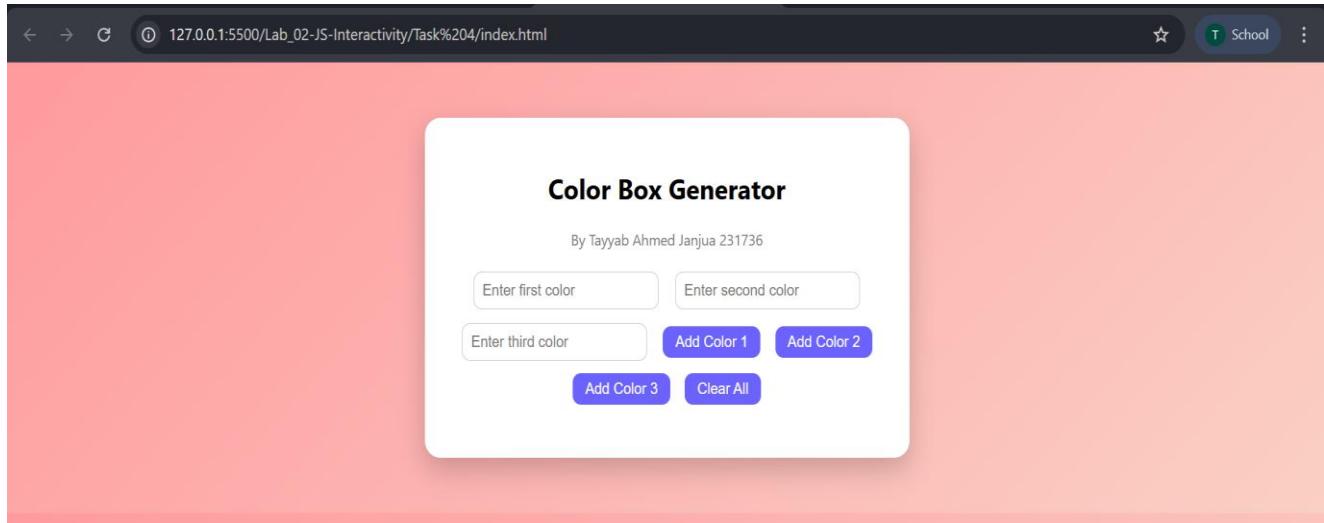
The screenshot shows a web browser window with the URL `127.0.0.1:5500/Lab_02-JS-Interactivity/Task%203/index.html`. The page title is "To-Do List" and it is attributed to "By Tayyab Ahmed Janjua 231736". The list contains three items:

- Complete JavaScript Lab (status: Complete, button: Remove)
- Practice DOM Manipulation (status: In Progress, button: Remove)
- Submit Assignment (status: In Progress, button: Remove)

The screenshot shows a web browser window with the URL `127.0.0.1:5500/Lab_02-JS-Interactivity/Task%203/index.html`. The page title is "To-Do List" and it is attributed to "By Tayyab Ahmed Janjua 231736". The list contains two items:

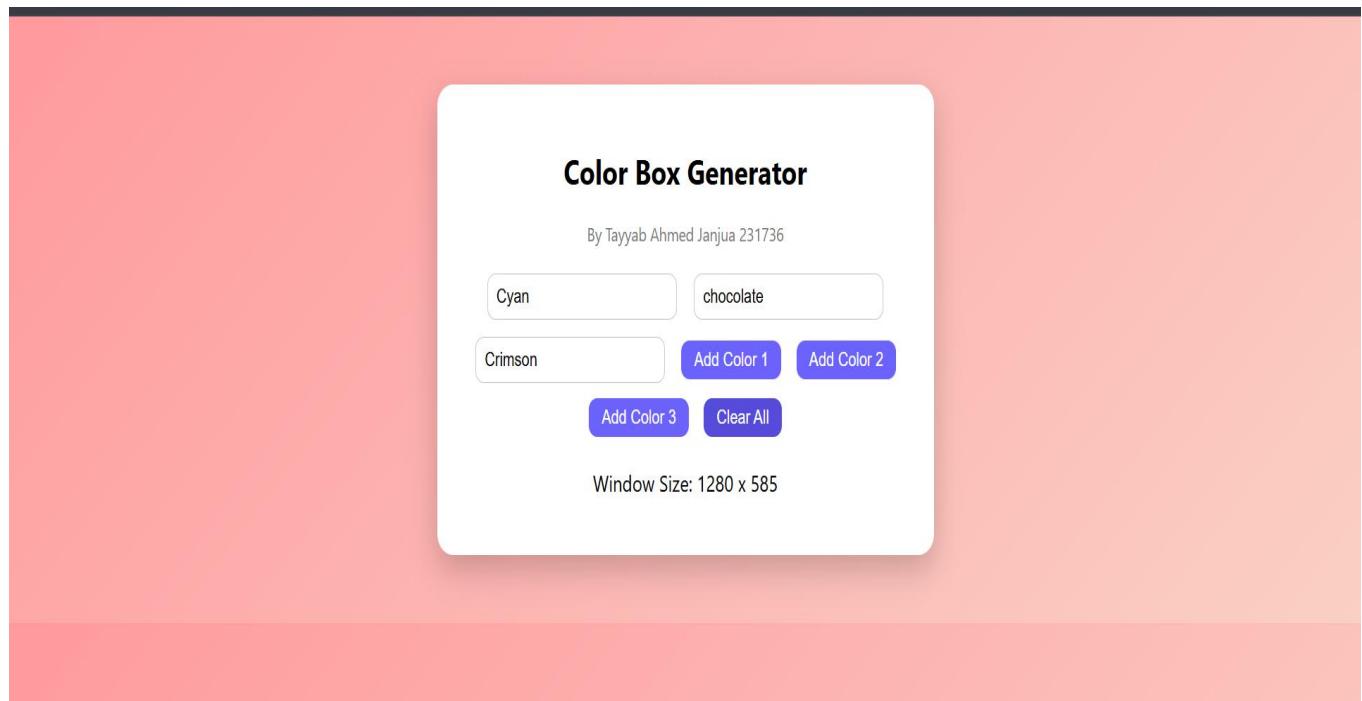
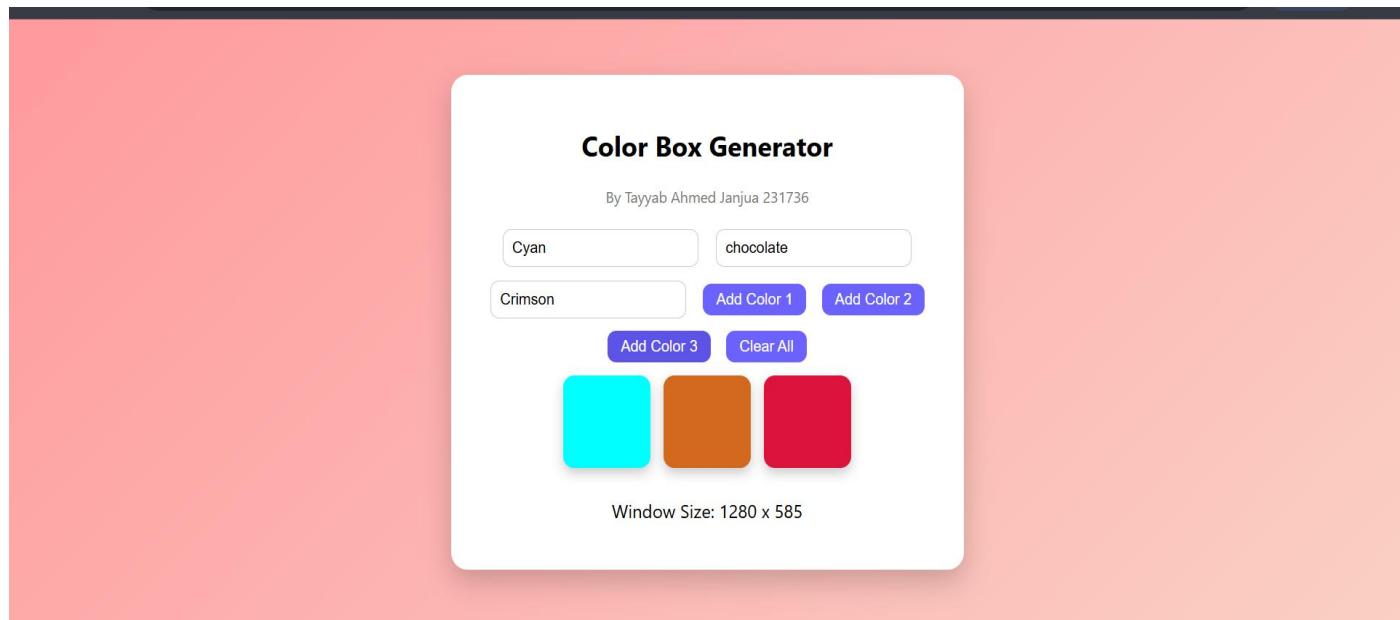
- Practice DOM Manipulation (status: In Progress, button: Remove)
- Submit Assignment (status: In Progress, button: Remove)

Task 4: Color Box Generator



Bonus: Get Element by browser info

```
9
10     // Bonus: BOM Info
11     document.getElementById("browserInfo").innerHTML =
12     "Window Size: " + window.innerWidth + " x " + window.innerHeight;
13 }
14 }
```



Task 5: Form Validation

A screenshot of a web browser showing a registration form. The URL in the address bar is 127.0.0.1:5500/Lab_02-JS-Interactivity/Task%205/index.html. The page title is "Registration Form" by Tayyab Ahmed Janjua 231736. The form contains four input fields: "Enter Name", "Enter Email", "Enter Age", and "Enter Password". A green "Register" button is at the bottom.

Registration Form
By Tayyab Ahmed Janjua 231736

Enter Name
Enter Email
Enter Age
Enter Password

Register

Validation Test

A screenshot of the same registration form after validation tests have been run. The validation messages are displayed directly below each respective input field:

- "Enter Name": "Name cannot be empty"
- "Enter Email": "Email must contain @"
- "Enter Age": "Age must be between 18 and 60"
- "Enter Password": "Password must be at least 6 characters"

The rest of the page remains the same, with the "Register" button at the bottom.

Registration Form
By Tayyab Ahmed Janjua 231736

Enter Name
Name cannot be empty

Enter Email
Email must contain @

Enter Age
Age must be between 18 and 60

Enter Password
Password must be at least 6 characters

Register

Form with Correct Details

A screenshot of a web browser showing a registration form. The title of the page is "Registration Form" and it is attributed to "By Tayyab Ahmed Janjua 231736". The form fields are as follows:

- Name: "Tayyab" (highlighted in red) - Error message: "Name cannot be empty"
- Email: "231736@students.au.edu.pk" (highlighted in red) - Error message: "Email must contain @"
- Age: "20" (highlighted in red) - Error message: "Age must be between 18 and 60"
- Password: "....." (highlighted in red) - Error message: "Password must be at least 6 characters"

The "Register" button is located at the bottom right of the form.

Completion

A screenshot of a web browser showing a registration form. The title of the page is "Registration Form" and it is attributed to "By Tayyab Ahmed Janjua 231736". The form fields are as follows:

- Name: "Tayyab"
- Email: "231736@students.au.edu.pk"
- Age: "20"
- Password: "....."

Below the form, a green success message reads "Registration Successful!"

Bonus: Generate prompt() or alert ()

```
41  if (valid) {  
42      // BONUS: confirm() before submission  
43      if (confirm("Are you sure you want to submit the form?")) {  
44          document.getElementById("successMessage").innerHTML = "Registration Successful!";  
45          alert("Welcome " + name + "! Your form has been submitted successfully.");  
46      }  
47  }  
48 }  
49 }  
50 }  
51 }  
52 }
```

