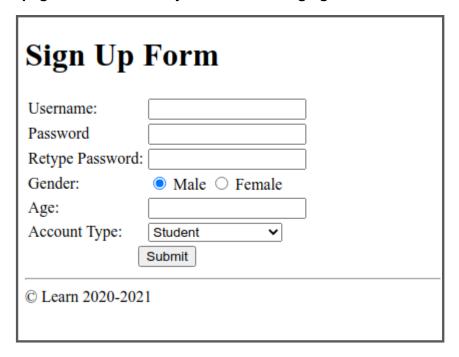
Cairo University
Faculty of Engineering
Computer Engineering Department
Computer Systems Consultation



### Lab 1 – HTML, CSS & JavaScript

Create an HTML page that looks exactly like the following figure.



#### Notes:

- When the user clicks on the "Account Type" drop-down list, the following items should appear (in order): Professor, Teaching Assistant and Student.
- "Student" account type is selected by default.
- Gender is "Male" by default.
- Do not forget the footer of the page. "© Learn 2023-2024"
- To convert from string to int, you can use: Number(str) function.

#### When the user clicks on the "Submit" button, the following validations should be performed in order:

1- If any of the fields is empty, alert with the following message:

"All fields must be filled."

Sign Up Form	This page says All fields must be filled.	
Username:		ок
Password		
Retype Password:		
Gender:   ● Male ○ Female		
Age:		
Account Type: Student		
Submit		

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2- If the length of the password is less than 8 characters, show a message next to the text box of "Password" showing the following message with a red color.

# Sign Up Form

Username:	Ahmed	
Password	••••	A password should be at least 8 characters.
Retype Password:	••••	
Gender:	Male O Female	
Age:	23	
Account Type:	Student ~	
	Submit	

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3- If the password is at least 8 characters but does not contain any number [0-9] AND at least one uppercase letter, show the following error message in red next to the text box of "Password" "A password should include at least one uppercase character and one numeric digit."

Hint:

You can use regular expressions and matching:

var pattern\_1 = /[A-Z]/;

var pattern $_2 = /[0-9]/;$ 

var text = "Hello World";

var matches = text.match(pattern\_1);

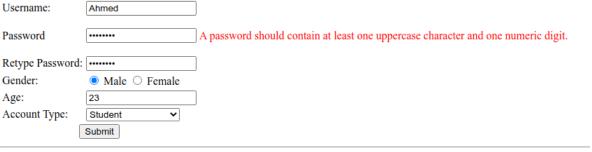
console.log(matches); // This will output an array containing ["H"] which is the first

match. You can use /[A-Z]/g to get all the matches.

//return null if no match is found.

<sup>&</sup>quot;A password should be at least 8 characters."

### Sign Up Form



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4- If the password and the re-typed passwords do not match, show the following message in red next to the "Re-type password" text box. "The two passwords do not match."

### Sign Up Form

Username:	Ahmed	
Password	•••••	
Retype Password:	•••••	The two passwords do not match.
Gender:	Male O Female	
Age:	23	
Account Type:	Student ~	
	Submit	
© Learn 2020-2021	1	

5- If the age value is less than 18, show the following message in red next to the "Age" text box. "You should be at least 18 years old to sign up."

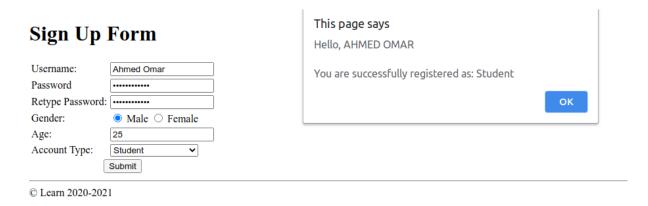
## Sign Up Form

Username:	Ahmed	
Password	•••••	
Retype Password:	•••••	
Gender:	Male O Female	
Age:	15	You should be at least 18 years old to sign up.
Account Type:	Student	
	Submit	
© Learn 2020-2021	l	

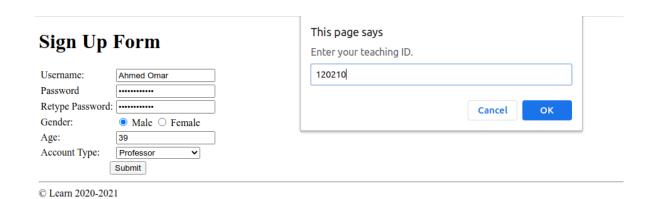
6- If the user wants to register as a professor but their age is less than 30, alert with the following message "You must be 30 years or above to register as professor".



7- If the data is successfully validated and the account type is **Student**, you should alert with a message as shown in the following figure with the username all uppercase.



8- If the data is successfully validated and the account type is either **Professor** or **Teaching Assistant**, you should prompt the user to enter their teaching ID as shown in the following figure (the default ID is 0).



9- When the user clicks OK, this information should appear in a new page as shown in the following figure.

Hello, **AHMED OMAR**You are successfully registered as: **Professor**Teaching ID = **120210** 

Use **JavaScript** to perform the previous validations.

#### **Grading Criteria:**

HTML form elements with correct attributes (4 grades)
Page Formatting as the displayed example. (1 grade)
External CSS file used. (1 grade)
Validations and Registration Messages (9 grades; 1 grade per each correct step)