**Registration module**

Registration module is the first step of our application. A new member can only access this web application after registering their account in our database.

A new member can register to system with following fields:

* given name & username
* Email address
* Password
* Password confirms
* Phone number

Data validation is an essential part of our application. If data isn’t accurate from the start,

your results definitely won’t be accurate either.

if data is not validated before register a new user there would be a chance for data duplication amongst different users.

That’s why it’s necessary to verify and validate the new user before it is registered.

**form side validation**

in our registration form, and we provide feedback when you don't enter your data in the format they are expecting. You'll get messages such as:

1. "This field is required" (You can't leave this field blank).
2. "Please enter a valid email address" (the data you entered is not in the right format).
3. "Your password needs to be between 8 and 30 characters long and contain one uppercase letter, one symbol, and a number." (A very specific data format is required for your data).
4. "Please enter your phone number in the format xxx-xxxx" (A specific data format is required for it to be considered valid).

This is called form validation. When you enter data, the browser and/or the web server will check to see that the data is in the correct format and within the constraints set by the application.

If the information is correctly formatted, the application allows the data to be submitted to the server and (usually) saved in a database; if the information isn't correctly formatted, it gives the user an error message explaining what needs to be corrected, and lets them try again.

**why do we insist on validating our forms? main reasons as follows**

We want to get the right data, in the right format. Our applications won't work properly if our users' data is stored in the wrong format, is incorrect, or is omitted altogether. We want to protect our users' data. Forcing our users to enter secure passwords makes it easier to protect their account information.