

Requirements For Register Form Functionality

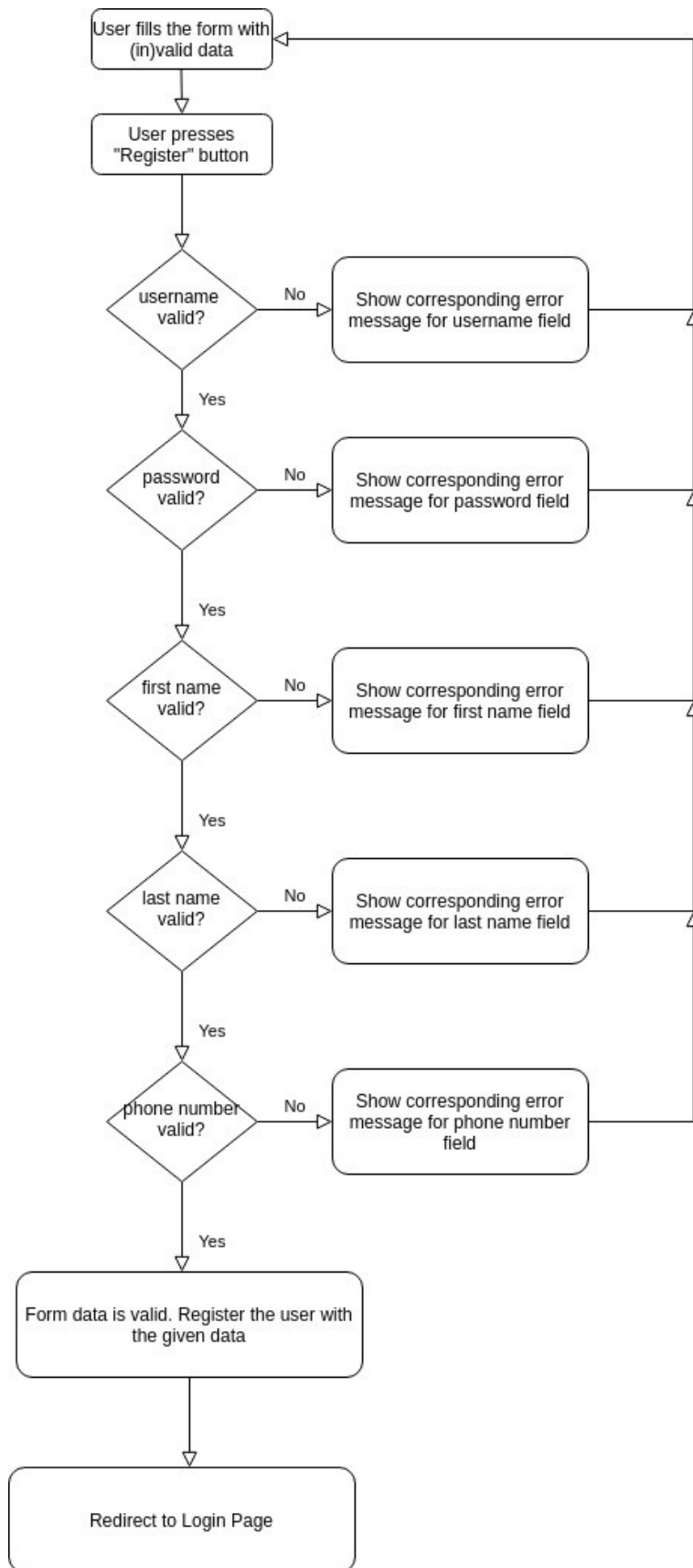


Figure 1 – In case of errors, registration form gives 1 error at a time from top to bottom

As shown in **Figure 1**, the design of the registration form has chosen a lean approach; Instead of showing all the errors at once, it shows the errors 1 error at a time from top to bottom. So, each time user corrects the error and presses “Register” button, then the form shows the next error and so on until there are no more errors in the form data. Then registration must succeed and user must be redirected to login page.

- 1) All 5 fields are mandatory.
- 2) If any of the fields are missing, then "Please fill out this field." error message is shown. Note that **Figure 1** still applies (i.e. if many fields have errors, then only the topmost one's error is shown)
- 3) All 5 fields are verified against their respective requirements:
 - a) Username field's rules:

Requirement ID / Tag	Description	Status
REQ-REG-FORM-USERNAME-1	Referring to Fig-1, among other fields, username field has the first priority when it comes to showing error	FAIL
REQ-REG-FORM-USERNAME-2	Minimum 8 characters	FAIL
REQ-REG-FORM-USERNAME-3	Alpha numeric characters and non-alpha numeric characters and their mix are allowed	PASS
REQ-REG-FORM-USERNAME-4	Space character is not allowed	FAIL

- b) Password field's rules

Requirement ID / Tag	Description	Status
REQ-REG-FORM-PASSWORD-1	Referring to Fig-1, among other fields, password field has the second priority when it comes to showing error	FAIL
REQ-REG-FORM-PASSWORD-2	Minimum 8 characters	FAIL
REQ-REG-FORM-PASSWORD-3	Must include at least one character from the sets [a-z], [A-Z], [0-9] and [!?.]	FAIL

Imagine there is a person with full name: Helena Margaretha Holm Cuzdan.
Note that Margaretha is the 2.nd first name and Cuzdan is the 2.nd last name.

Imagine there is a person with full name: Ha Xi (a valid Vietnamese full name)

- c) First Name field's rules:

Requirement ID / Tag	Description	Status
REQ-REG-FORM-FIRST-NAME-1	Referring to Fig-1, among other fields, first name field has the third priority when it comes to showing error	FAIL
REQ-REG-FORM-FIRST-NAME-2	Minimum 2 characters for each word (e.g. Ha Xi but not H X, or Ha but not H)	FAIL

REQ-REG-FORM-FIRST-NAME-3	Must contain letters from the set [a-zA-Z] for each word	PASS
REQ-REG-FORM-FIRST-NAME-5	Cannot contain numbers	FAIL
REQ-REG-FORM-FIRST-NAME-6	Cannot contain non-alphanumeric characters	FAIL
REQ-REG-FORM-FIRST-NAME-7	Can contain two first names, which must be separated with a single space (e.g. 'Holm Cuzdan' but not 'Holm Cuzdan')	FAIL

d) Last Name

Requirement ID	Description	Status
REQ-REG-FORM-LAST-NAME-1	Referring to Fig-1, among other fields, last name field has the fourth priority when it comes to showing error	FAIL
REQ-REG-FORM-LAST-NAME-2	Each word must be at least 2 letters (e.g. Ha Xi but not H X, or Ha but not H)	FAIL
REQ-REG-FORM-LAST-NAME-3	Must contain letters from the set [a-zA-Z] for each word	PASS
REQ-REG-FORM-LAST-NAME-5	Cannot contain numbers	FAIL
REQ-REG-FORM-LAST-NAME-6	Cannot contain non-alphanumeric characters	FAIL
REQ-REG-FORM-LAST-NAME-7	A single space must separate the last names, if there are 2 last names (e.g. 'Holm Cuzdan' but not 'Holm Cuzdan')	FAIL

e) Phone number

This is a mobile phone number from any country, not a fixed line. Referring to https://en.wikipedia.org/wiki/List_of_mobile_telephone_prefixes_by_country

Requirement ID/Tag	Description	Status
REQ-REG-FORM-PHONE-NUMBER-1	May contain a single '+' character as the first character and the rest must be numbers	FAIL
REQ-REG-FORM-PHONE-NUMBER-2	If REQ-REG-FORM-PHONE-NUMBER-1 is not met, then it must contain only numbers	PASS
REQ-REG-FORM-PHONE-NUMBER-3	Must not contain alphabetic characters [a-zA-Z]	FAIL
REQ-REG-FORM-PHONE-NUMBER-4	Must not contain non-alphanumeric characters	FAIL
REQ-REG-FORM-PHONE-NUMBER-5	Must not contain space(s)	FAIL
REQ-REG-FORM-PHONE-NUMBER-6	Referring to Fig-1, among other fields, phone number field has the last priority when it comes to showing error	FAIL

IMPORTANT! Each requirement for all the fields may have multiple test cases. Requirement Ids are used as tags in automated test cases.