

Chapter Six

TestingPhase

6.1- Introduction

After the implementation is done successfully, now is the time to do system several various critical test and showing it results, and look , does it meets the requirements and operates according to the specification? and also attempts to break the system to show not where it works but where it fails. This is sometimes referred to as stress testing. In this chapter of documentation, normally formalize the testing process by referring to two distinct goals: *Validation, Verification*.

6.2. Validation

In this step of test answers the questions: *Have we built the right system? Does it satisfy the requirements?*, and compare the system's behavior with the original requirements and system specification.

This system (E-Journal) validate three technical:

1-Validation confirms that the needs of an external customer or user of a product, service, or system are met. In this step we show, is to ensure that E-Journal system provide right services to user, so that this testing is processing by display the need of user and services of system, to show corresponding between needed and services(table 6.1).

<i>Services of E-Journal</i>	<i>Needed of users</i>	<i>Did is corresponding?</i>
Submit research online	submit research easily and quickly	yes
Send notification via Email	Notification via Email of any event	yes
Author can suggest Reviewers & Editors online	Freedom selection	yes
Author can decline Reviewers & Editors online	Freedom decline	yes
Editor manager can assign and invite Reviewers & Editors online	Communicate with users at anywhere and any time	yes
Editors & Reviewers can agree or decline invitation online	Freedom agree and decline invitation	yes
Editor manager can grant and revoke permissions to users	controlling of other users	yes

figure 6.1:Validation

- 2-Test two is ensures that every one have his authority for something, in this product, user's permissions separated into Authors, Reviewers and Editors.
- 3-Authors can access to 'Author main menu' page and submit manuscript. Also may have many permissions (Reviewer and/or Editor) granted for him from Editor Manager.
- 4- Reviewer can access to 'Reviewer main menu' page and review manuscript. Also may have many permissions (Author and/or Editor) granted for him from Editor Manager.
- 5- Editor can access to 'Editor main menu' page, also may review manuscript and send it to Reviewer and return the manuscript to Author. Also may have many permissions (Author and/or Reviewer) granted for him from Editor Manager. As it showed, all testing of validation is success which makes the system is built the right product as intended.

6.3- Verification

In this step of test the product is tested if it execute *the user requirements and needs exactly or not and validating of user inputs.*

-pre registration test

The screenshot displays the 'PRE-REGISTRATION PAGE' on the left and a registration form on the right. The form has a title 'Please Enter The Following' and a link 'Insert Special Character'. It contains three input fields: 'First Name*' (empty), 'Last Name*' (empty), and 'E-mail Address*' (containing 'mmm.com'). Red text indicates validation errors: 'Enter the firstname' for the first name, 'Enter the lastname' for the last name, and 'You must enter the a valid Email address!' for the email address. Below the form, a 'WARNING' message states: 'If you think you already have an existing registration of any type (Author,Reviewer, Or Editor) in this system , please. DO NOT register again . This will cause delays or prevent the processing of review or manuscript you submit. If you are unsure if you are already registered, click the 'Forgot Your Password?' button. If you are registering again because you want to change your current information, changes must be made to your existing information clicking the 'Update My Information' link on the menu bar. If you are unsure how to perform these functions, please contact the edit office.' At the bottom of the form are three buttons: 'Cancel', 'Forgot Your Password?', and 'Continue >>'.

figure 6-2: pre registration test

When user enters the first name, last name and Email address the validation will done.

- 1-the user inputs in all text boxes must be fewer than thirty characters.
- 2-the user must fill all text box (the first name, last name and Email address) by appropriate data.
- 3-if the syntax of entered Email address incorrect, the user can not continue to next step.
- 4- if the syntax of entered Email address correct, the system will compare the entered Email with all Emails in database, if the entered Email corresponding of any Email in Database will show message as follow:

PRE-REGISTRATION PAGE

Duplicate Registration

The data you entered indicates that you have already registered for Editorial Manager. Would you like us to send an e-mail to with the Username and Password?

Yes No

figure 6-3: Email corresponding

This message tell user the data that he entered already registered for the system. Would you like us to send an E-Mail with the username and password? If the user click on 'Yes' button the username and password will send to his Email, If the user click on 'No' button, the user will move for the registration page.

5- if the syntax of entered Email address correct, but not found in system Database the user will move into 'Registration' page .

- Registration process testing

In this page, the user must fill all text boxes that red star before it as first name, last name, preferred name and Email address, also the *syntax of entered Email address must be correct*, and the primary phone and secondary phone must be numeric and must be greater than five numbers and less than fifteen numbers, and the fax number must be numeric and length greater than five numbers, see **Figure 5-3** in chapter five.

After that click on the 'Next' button the user will move into the next page , in this page ,the system check Institution ,City and country if it entered or no , if it entered the system allow for the user to move for next page , if the text box not filled the user not move to the next page , Zip or postal code must be numeric and it must begin with two zeros e.g.009677 and must be greater than or equal five numbers, See **Figure 5-4** in chapter five.

In 'select personal classification' page, the user can not select super classification but must select sub classification, also can not selecting same sub classification, see **Figure 5- 6** in chapter five. Also when the user moving into the next page, must be entering the preferred name, otherwise the user can not moving into the next page, see figure 6-4.

REGISTRATION PAGE

Choose A User Name

The User Name Choose Must be Unique within the system if the one you choose is already in use, you will be asked for another .

Enter Preferred User Name * Please Enter The Preferred User Name

Once you have filled in the required Information ,click the button below.

Continue

figure 6-4: Registration process testing

After that when user entered the preferred name the system will corresponding the entered preferred name with all preferred names in system Database, if entered preferred name corresponding for any preferred name of system Database, the system will display message tell the user your preferred name found in this system, see figure 6-5 .

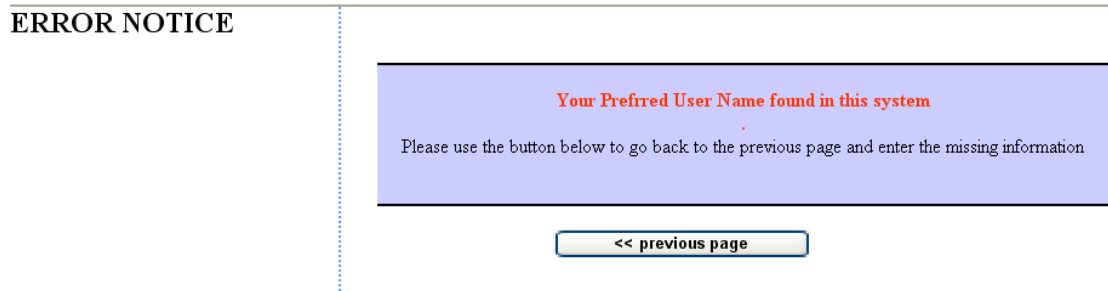


figure 6-5.duplicate preferred name

The user must be click on 'Previous page' button to go back for the previous page to change his preferred name. After all registration process the system will send user name and password to his Email.

-Log in testing

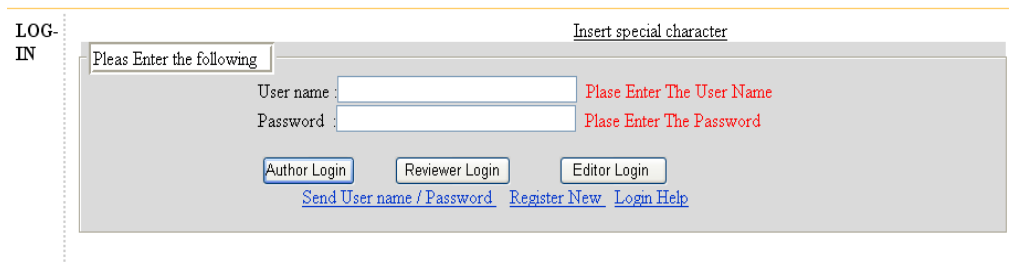


figure 6-6. Log in testing

- The user must fill user name and password text boxes.
- the maximum size of user name and password are thirty character.
- if the entered user name and/or password invalid, the system not allowing for the user to log in.
- if the user name and password entered correctly, and if the user choosing 'Reviewer Login' button, and he has not this role the 'Reviewer Login' button will disabled, also if the user choosing 'Editor Login' button, and he has not this role the 'Editor Login' button will disabled.
- if the user name and password entered correctly, and the user clicking on any button and he his this role the system will allow for this user to login.

-Submit manuscript testing

The first step of this test is the article type, if user choosing 'None' the system not allow for the user to moving into next step, see **Figure 5. 13** in chapter five.

The second step of submit manuscript is the entering full title and short title, in this step the user must enter the full title on less, see figure 6-7.

Submission

[Frequently Asked Questions](#)

[Select Artical Type](#)

-> [Enter Title](#)

[Add/Edit/Remove Author](#)

[Select Section/Category](#)

[Submit Abstract](#)

[Enter Keywords](#)

[Selection Classifications](#)

[Additional information](#)

[Enter Comments](#)

[Suggest Reviewers](#)

[Oppose Reviewers](#)

[Request Editor](#)

[Select regionof origin](#)

[Attach files](#)

[Insert Special Character](#)

Please Enter The Full Title Of your Submission

Entering a Full Title is required for Submission .

Enter the Title of your manuscript .you cannot submit a manuscript without a title .

Full Title

Short Title

please enter the full title on less

[Previous](#) [Next](#)

figure 6-7.Test full title

- add author testing

the user must fill all text boxes that red star before it as first name, last name, preferred name and Email address, also the *syntax of entered Email address must be correct*, see figure 5-15 in chapter five.

The corresponding Author must be registered in the system, if the user would add corresponding Author the system will display message asking user, would you change corresponding Author, see figure 6-8.

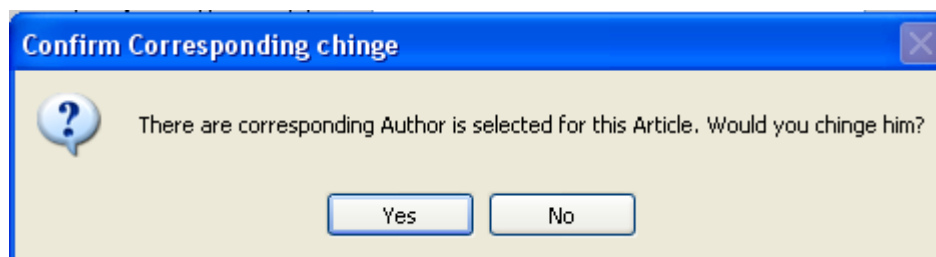


figure 6-8 .Test corresponding Author

if he clicking on 'yes' button, the system will search for it, if he registered in the system or not, if he registered in the system, the system will add this author as corresponding Author for this manuscript, if this corresponding author not registered in the system, the system not add this author as corresponding Author and display message tell the Author who selected not registered in this Journal, see figure 6-9.

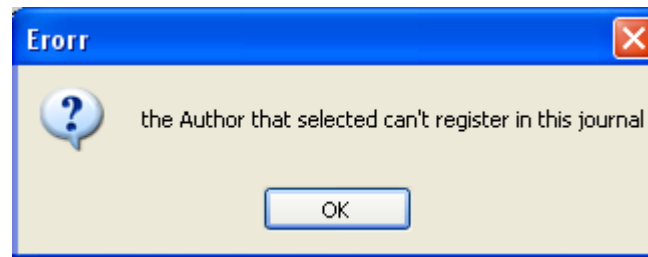


figure 6-9. Test registration corresponding Author

The system will automatically add this user as corresponding Author.

-Abstract testing

In this step of submit submission test , the user must be fill the abstract text box , if the user not fill the abstract text box can not continue into next step,

see **Figure 5-17** in chapter five.

-keyword testing

In this step of submit submission test , the user must be fill the keyword text box , if the user not fill the keyword text box can not continue into next step,

see **Figure 5-18** in chapter five.

-Comment testing

In this step of submit submission test , the user must be fill the comment text box , if the user not fill the comment text box can not continue into next step,

see **Figure 5-22** in chapter five.

-suggest reviewer testing

In this step of submit submission test , when user would suggest reviewer, the user must fill all text boxes that red star before it as first name, last name and Email address, also the *syntax of entered Email address must be correct*, see figure 5-23 in chapter five. Also same process above, will applied for oppose Reviewer, see figure 5-24 in chapter five.

-Region of Origin testing

In this step of submit submission test, if user choosing 'None' the system not allow for the user to moving into next step, see **Figure 5- 26** in chapter five.

-attach files testing

In this step, the user must attach one file on less, and fill description text box for this file, the user must click on '**attach file**' button to upload this file, also the system will check size of this file, if large file size the system not accept this file see **figure 6-10**.

figure 6-10. Test description attach file

all previous input validation will done in the client side not in server , because ASP.NET language support this techniques, so that we preferred this language from other languages.

6.4 Results of the testing

All previous steps of test, executed successfully.