

# **TASK 72D**

## **Quality Planning**

*SWE30010 - Managing IT Projects*

**Class:** Fri 08:00 DT7.2 - **Tutor:** Pham Thi Kim Dung

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From the quality requirements defined in 71D, here are the detailed plan and checklist items for testing and validation to ensure the “Set up user roles, develop user registration and log-in” backlog item satisfies the requirements.

1. Registration

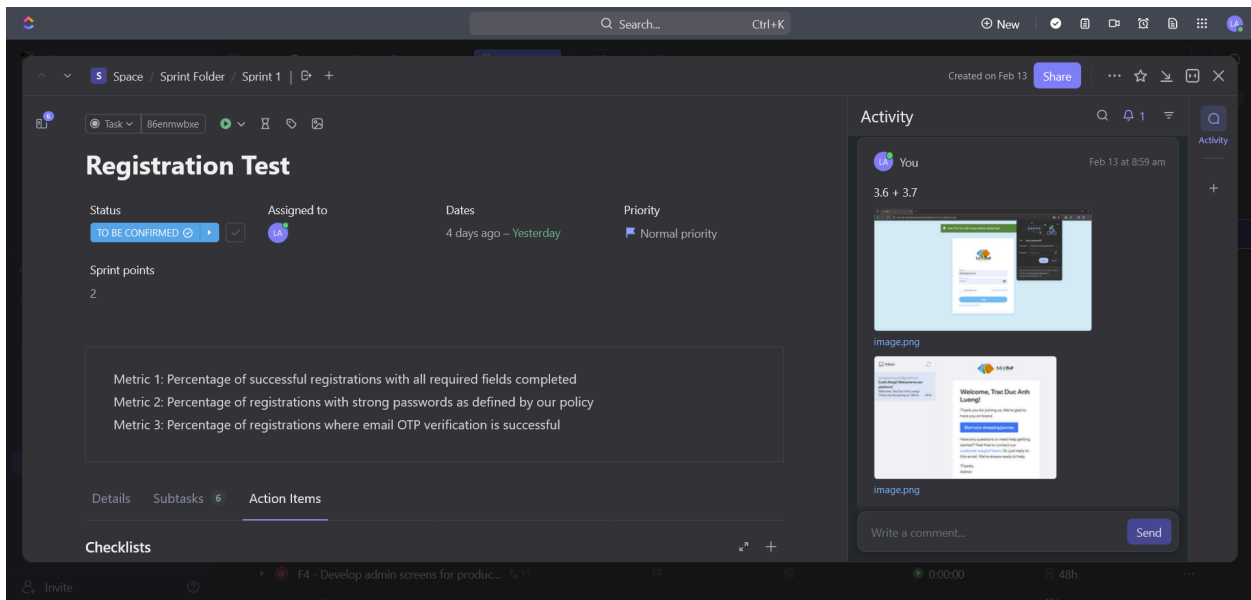


Figure 1: ClickUp evidence for Registration Test

Metric 1: Percentage of successful registrations with all required fields completed (99.5%)

No.	Task	Check the appropriate column	
		Yes	N/A
1	Are the required fields highlighted in red when missing upon clicking “Register”?	<input type="checkbox"/>	<input type="checkbox"/>
2	Warning “Email expected!” appears when the user enters the wrong email format.	<input type="checkbox"/>	<input type="checkbox"/>
3	Warning “Email already exists” appears when the user enters an email address that has already been registered.	<input type="checkbox"/>	<input type="checkbox"/>
4	Warning “Invalid phone number” appears when the user enters the wrong phone number format (Vietnamese phone number).	<input type="checkbox"/>	<input type="checkbox"/>

5	Warning “You have to be 18 or older to register” appears when the user enters a date of birth less than 18 years from today.	<input type="checkbox"/>	<input type="checkbox"/>
6	Warning “Birthdate cannot be in the future” appears when the user enters a date of birth in the future from today.	<input type="checkbox"/>	<input type="checkbox"/>

Metric 2: Percentage of registrations with strong passwords as defined by our policy (95%)

No.	Task	Check the appropriate column	
		Yes	N/A
1	Password must contain at least 8 characters.	<input type="checkbox"/>	<input type="checkbox"/>
2	Password must contain at least 1 uppercase character.	<input type="checkbox"/>	<input type="checkbox"/>
3	Password must contain at least 1 lowercase character.	<input type="checkbox"/>	<input type="checkbox"/>
4	Password must contain at least 1 number.	<input type="checkbox"/>	<input type="checkbox"/>
5	Password must contain at least 1 special character.	<input type="checkbox"/>	<input type="checkbox"/>
6	Warning “Password does not meet requirement” appears when one of the above requirements is unmet.	<input type="checkbox"/>	<input type="checkbox"/>
7	The tooltip updates accordingly based on password input changes.	<input type="checkbox"/>	<input type="checkbox"/>

Metric 3: Percentage of registrations where email OTP verification is successful (99.9%)

No.	Task	Check the appropriate column	
		Yes	N/A
1	OTP sends to a valid email.	<input type="checkbox"/>	<input type="checkbox"/>
2	OTP code is a 6-digit number.	<input type="checkbox"/>	<input type="checkbox"/>
3	A popup to enter OTP appears with a 120-second	<input type="checkbox"/>	<input type="checkbox"/>

	countdown.		
4	Entering the wrong OTP code more than 2 times disables the submit button.	<input type="checkbox"/>	<input type="checkbox"/>
5	When the countdown ends, the submit button is disabled, and the “Resend OTP” link appears.	<input type="checkbox"/>	<input type="checkbox"/>
6	Entering the correct OTP on the 1st try before the countdown ends creates a user account.	<input type="checkbox"/>	<input type="checkbox"/>
7	Entering the correct OTP on the 2nd try before the countdown ends creates a user account.	<input type="checkbox"/>	<input type="checkbox"/>

## 2. Login

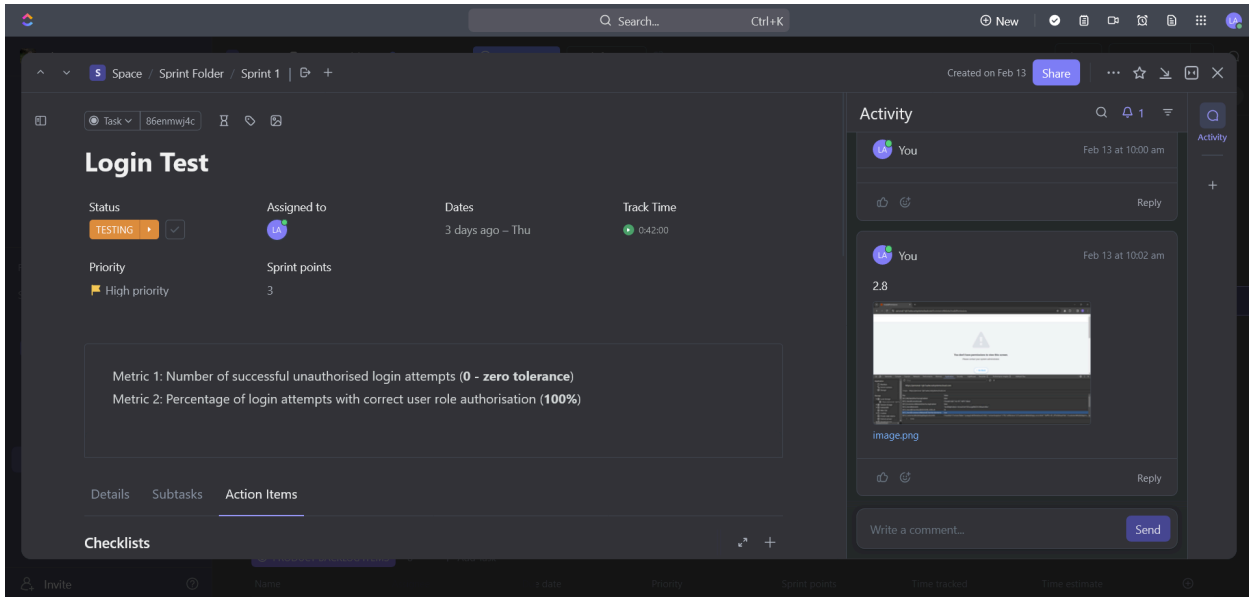


Figure 2: ClickUp evidence for Login Test

Metric 1: Number of successful unauthorised login attempts (**0 - zero tolerance**)

No.	Task	Check the appropriate column	
		Yes	N/A
1	Fail to log in with incorrect email.	<input type="checkbox"/>	<input type="checkbox"/>

2	Fail to log in with correct email and incorrect password.	<input type="checkbox"/>	<input type="checkbox"/>
3	Error message “Invalid username or password” appears in no. 1 & 2 scenarios.	<input type="checkbox"/>	<input type="checkbox"/>
4	Login successfully with correct username and correct password.	<input type="checkbox"/>	<input type="checkbox"/>

Metric 2: Percentage of login attempts with correct user role authorisation (**100%**)

No.	Task	Check the appropriate column	
		Yes	N/A
1	POST request from <i>ActionDoLogin</i> using Admin credentials returns a response containing rolesInfo of Admin.	<input type="checkbox"/>	<input type="checkbox"/>
2	POST request from <i>ActionDoLogin</i> using Customer credentials returns a response containing rolesInfo of Customer.	<input type="checkbox"/>	<input type="checkbox"/>
3	Upon logging in, the Admin user is re-directed to the Admin Dashboard.	<input type="checkbox"/>	<input type="checkbox"/>
4	Upon logging in, the Customer user is re-directed to the Home page.	<input type="checkbox"/>	<input type="checkbox"/>
5	Customer’s browser local storage has <i>\$OS_Users\$EcommerceWebsite\$ClientVars\$IsAdmin</i> key set to <i>false</i> .	<input type="checkbox"/>	<input type="checkbox"/>
6	Admin’s browser local storage has <i>\$OS_Users\$EcommerceWebsite\$ClientVars\$IsAdmin</i> key set to <i>true</i> .	<input type="checkbox"/>	<input type="checkbox"/>
7	Customer accessing Admin’s screens through URL is re-directed to the InvalidPermissions screen.	<input type="checkbox"/>	<input type="checkbox"/>
8	Admin accessing Customer’s screens through URL is re-directed to the InvalidPermissions screen.	<input type="checkbox"/>	<input type="checkbox"/>

### 3. Logging

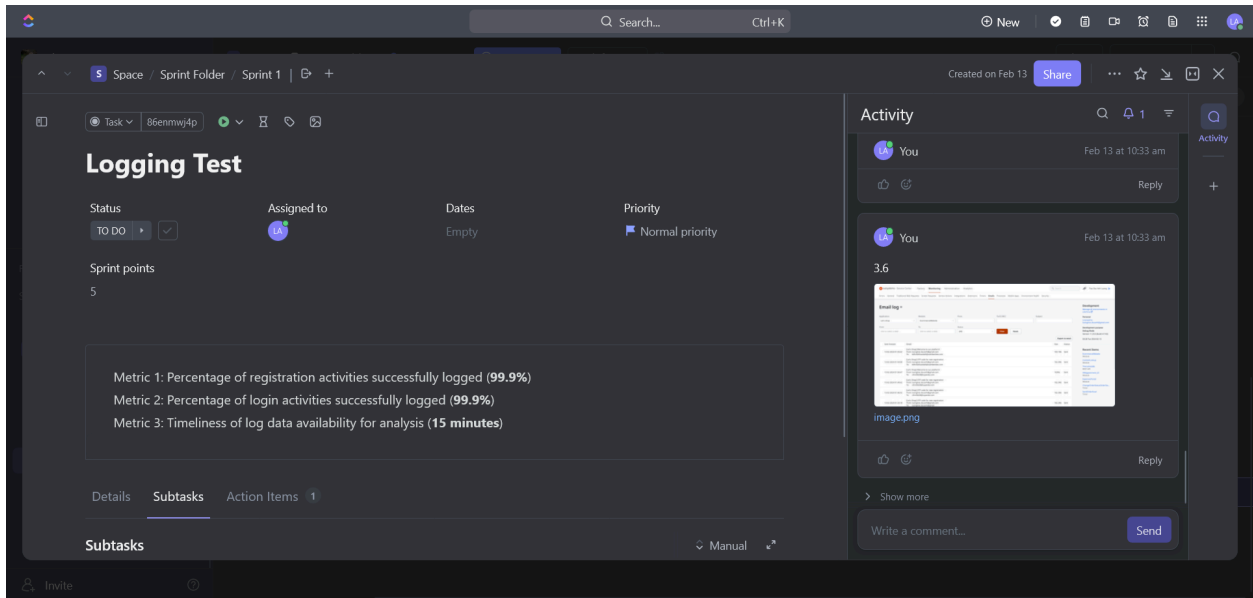


Figure 3: ClickUp evidence for Logging Test

Metric 1: Percentage of registration activities successfully logged (99.9%)

No.	Task	Check the appropriate column	
		Yes	N/A
1	Register using action <i>GetOtpsByEmail</i> is logged to the Screen Requests tab on OutSystems Service Center.	<input type="checkbox"/>	<input type="checkbox"/>

Metric 2: Percentage of login activities successfully logged (99.9%)

No.	Task	Check the appropriate column	
		Yes	N/A
1	Failed logins are logged to the Error tab on OutSystems Service Center.	<input type="checkbox"/>	<input type="checkbox"/>
2	Successful logins are logged to the Screen Requests tab on OutSystems Service Center.	<input type="checkbox"/>	<input type="checkbox"/>

Metric 3: Timeliness of log data availability for analysis (**15 minutes**)

No.	Task	Check the appropriate column	
		Yes	N/A
1	Error log ready within 3 minutes	<input type="checkbox"/>	<input type="checkbox"/>
2	General log ready within 3 minutes	<input type="checkbox"/>	<input type="checkbox"/>
3	Screen requests log ready within 2 minutes	<input type="checkbox"/>	<input type="checkbox"/>
4	Extension log ready within 3 minutes	<input type="checkbox"/>	<input type="checkbox"/>
5	Timer log ready within 2 minutes	<input type="checkbox"/>	<input type="checkbox"/>
6	Email log ready within 2 minutes	<input type="checkbox"/>	<input type="checkbox"/>

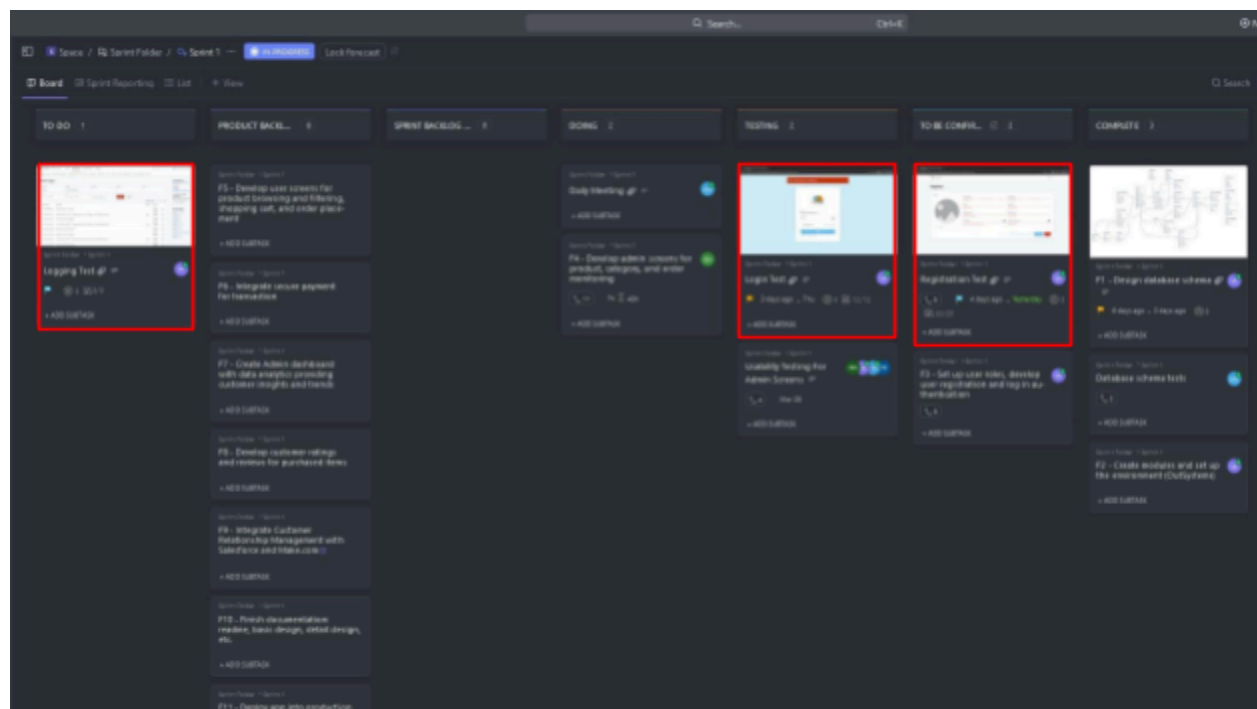


Figure 4: ClickUp task board for all 3 testing tasks