4 TEST CASE DESIGN

Test_Case_Table_Landscape.docx

Test Case Design: User Registration Validation

No.	Fields	Types of Class	Test Data (Valid/Invalid)	Expected Outcome
1	Full Name	Text	Amanina Selamat	"Registration successful" is shown, and user is redirected to login page.
			Amanina Selamat123	" Please match the requested format " is shown.
2	Contact Number	Text	0123456789	"Registration successful" is shown, and user is redirected to login page.
			123abc	"Please enter a valid phone number (10-15 digits)" is shown.
			01234	"Please enter a valid phone number (10-15 digits)" is shown.
3	Role	Dropdown	Inventory Supervisor	"Registration successful" is shown, and user is redirected to login page.
			[empty]	"Please select an item in the list" is shown.

4	Email	Text	amanina1@gmail.com	"Registration successful" is shown, and user is redirected to login page.
			alexsmith	"Invalid email format. Please enter a valid email address." is shown.
			amanina1@gmail.com (existing)	"Email already exists" is shown.
			amani na@gmail.com	"Invalid email format. Please enter a valid email address." is shown.
5	Password	Text	Pass123!	"Registration successful" is shown, and user is redirected to login page.
			P1!	"Password must be at least 8 characters" is shown.
			pass123!	"Password must meet all the requirements listed. Click blue icon to view requirements." is shown.
			PASS123!	"Password must meet all the requirements listed. Click blue icon to view requirements." is shown.

			Passabc!	"Password must meet all the requirements listed. Click blue icon to view requirements." is shown.
			Pass123a	"Password must meet all the requirements listed. Click blue icon to view requirements." is shown.
			[Click blue icon]	"Password must contain at least 8 characters, 1 uppercase letter, 1 lowercase letter, 1 number, and 1 special character."
			Pass 123!	"Password cannot contain spaces" is shown.
6	Re-enter Password	Text	Pass123!	"Registration successful" is shown, and user is redirected to login page.
			Pass1234	"Passwords do not match" is shown.
7	All Fields	N/A	[All fields blank]	"Please fill out this field" is shown.

Test Case Design: Login Validation

No.	Fields	Types of Class (Valid)	Test Data (Valid/Invalid)	Expected Outcome
1	Username/Email	Text	amanina1@gmail.com	"Login successful" is shown, and user is redirected to the dashboard or home page.
			Alexsmith@gmail.com	"Invalid email or password" is shown.
			[blank]	"Email is required" is shown.
			amani na@gmail.com	"Invalid email or password" is shown.
2	Password	Text (Password)	Pass123!	"Login successful" is shown, and user is redirected to the dashboard or home page.
			wrongpassword	"Invalid email or password" is shown.
			[blank]	"Password is required" is shown.
			Pass 123!	"Invalid email or password" is shown.
3	All Fields	N/A	[All fields blank]	"Please fill out this field" is shown.

Test Case Design: Add Ingredient Validation

No.	Fields	Types of Class (Valid)	Test Data (Valid/Invalid)	Expected Outcome
1	Category	Dropdown	Dry Ingredient	"Data successfully saved" is shown, and ingredient is added to the list.
			[empty]	"Please select an item in the list" is shown.

2	Ingredient Code	Text	ING001	"Data successfully saved" is shown, and ingredient is added to the list.
			ING001 (existing)	"Ingredient code already exists" is shown.
			[blank]	"Please fill out this field" is shown.
			ING 001	"Ingredient code cannot contain spaces" is shown.
			ING@#$	"Please enter a valid ingredient code" is shown.
			[11 characters]	"Ingredient code must not exceed 11 characters" is shown (adjust based on actual max length).
3	Ingredient Name	Text	SUGAR	"Data successfully saved" is shown, and ingredient is added to the list.
			[blank]	"Please fill out this field" is shown.
			SUGAR@#$	"Please enter a valid ingredient name" is shown.
4	Current Quantity	Text (Numeric)	200	"Data successfully saved" is shown, and ingredient is added to the list.
			-89	"Quantity must be a positive number" is shown.
			fourthsk	"Quantity must be a valid number" is shown.
			[blank]	"Please fill out this field" is shown.
5	Measurement	Dropdown	KG	"Data successfully saved" is shown, and ingredient is added to the list.
			KG122431 (manipulated)	"Please select a valid measurement" is shown, or submission fails with an error.
			[blank]	"Please select an item in the list" is shown.

6	Supplier Detail	Dropdown	SUGAR SUPPLIER SDN BHD	"Data successfully saved" is shown, and ingredient is added to the list.
			[blank]	"Please select an item in the list" is shown.
			InvalidSupplier (manipulated)	"Please select a valid supplier" is shown, or submission fails with an error.
7	Date In	Date (YYYY-MM-DD)	2025-05-18	"Data successfully saved" is shown, and ingredient is added to the list.
			2025-09-32	"Invalid date format. Such day do not exist" is shown.
			05/5/2025	"Invalid date format. Please use YYYY-MM-DD" is shown.
			2025-01-01	"Date In cannot be in the past" is shown (as of May 29, 2025).
			[blank]	"Please fill out this field" is shown.
8	Expiration Date	Date (YYYY-MM-DD)	2026-05-18	"Data successfully saved" is shown, and ingredient is added to the list.
			2025-05-01	"Expiration Date must be after Date In" is shown (Date In: 2025-05-18).
			20/5/2026	"Invalid date format. Please use YYYY-MM-DD" is shown.
			[blank]	"Please fill out this field" is shown.
9	All Fields	N/A	[All fields blank]	"Please fill out this field" is shown for all required fields.

Test Case Design: Add Supplier Validation

No.	Fields	Types of Class (Valid)	Test Data (Valid)	Expected Outcome
1	Code	Text	SUPTEP001	"Data successfully saved" is shown, and supplier is added to the Supplier Management table.
			[blank]	"Please fill out this field" is shown.
			SUPTEP001 (existing)	"Supplier code already exists" is shown.
			SUP TEPO01	"Supplier code cannot contain spaces" is shown.
			SUP@#$	"Please enter a valid supplier code" is shown.
2	Name	Text	TEPUNG BINTANG SDN BHD	"Data successfully saved" is shown, and supplier is added to the Supplier Management table.
			[blank]	"Please fill out this field" is shown.
			TEPUNG @#$	"Please enter a valid supplier name" is shown.
3	Contact	Text (Phone Number)	051234889	"Data successfully saved" is shown, and supplier is added to the Supplier Management table.
			[blank]	"Please fill out this field" is shown.

			123abc	"Please enter a valid phone number" is shown.
			05123	"Please enter a valid phone number (e.g., 10 digits)" is shown (too short).
			0512348890123456	"Please enter a valid phone number (e.g., 10 digits)" is shown (too long).
			05 1234 889	"Please enter a valid phone number (no spaces allowed)" is shown
			051234!@#	"Please enter a valid phone number" is shown.
4	Ingredient	Text	TEPUNG	"Data successfully saved" is shown, and supplier is added to the Supplier Management table.
			[blank]	"Please fill out this field" is shown.
			TEPUNG @#$	"Please enter a valid ingredient" is shown.
5	Price	Text (Numeric)	4.50	"Data successfully saved" is shown, and supplier is added to the Supplier Management table.
			[blank]	"Please fill out this field" is shown.
			abc	"Please enter a valid price (numeric value)" is shown.
			-89	"Price must be a positive number" is shown.
6	Measurement	Dropdown	KG	"Data successfully saved" is shown, and supplier is added to the Supplier Management table.
			[blank]	"Please select an item in the list" is shown.
			KG123 (manipulated)	"Please select a valid measurement" is shown, or submission fails with an error.

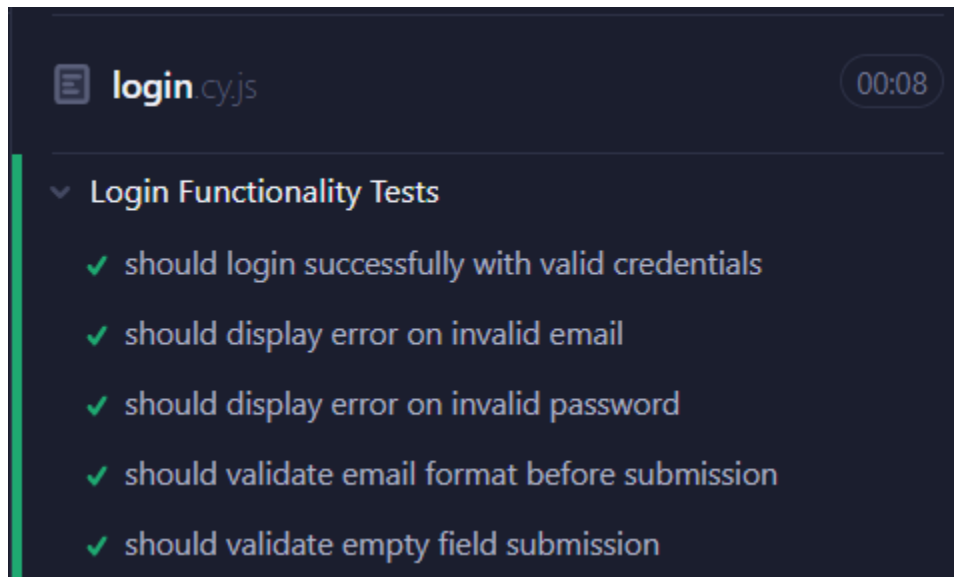| 7	Performance	Dropdown	★★	"Data successfully saved" is shown, and supplier is added to the Supplier Management table.
			[blank]	"Please select an item in the list" is shown.
8	All Fields	N/A	[All fields blank]	"Please fill out this field" is shown for all required fields.

5   TEST CASES

1. LOGIN

Module Name	User login	Test Case Description	Test the functionalities of user login section in the system
Tester Name	Nisaa	Date Tested	30-May-2025
Reviewed By	Nisaa	Prerequisites:	Access to Chrome Browser
Test Priority	Medium	Postrequites:	
Version	1.0	Test Type	Automated

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/ Fail
RSB_L1 (Login)	Successful Login	1. Navigate to login page. 2. Enter valid email 3. Enter valid password 4.Click submit button	**Email:** amanina1@gmail. com **Pass:** Pass123!	User redirect to the perspective role dashboard.	User redirected to perspective role dashboard	Pass
RSB_L2 (Login)	Invalid Email	1. Navigate to login page. 2. Enter **valid email** 3. Enter invalid password 4.Click submit button	**Email:** Alexsmith@gmail. com **Pass:** Pass123!	Show error message "Invalid Email/ password"	Error message "Invalid Email/ password "shown	Pass
RSB_L3 (Login)	Invalid Email	1. Navigate to login page. 2. Enter **valid email** 3. Enter invalid password 4.Click submit button	**Email:** Alexsmith@gmail. com **Pass:** Pass123!	Show error message "Invalid Email/ password"	Error message "Invalid Email/ password "shown	Pass
RSB_L4 (Login)	Invalid email format	1. Navigate to login page. 2. Enter **invalid email** 3. Enter **invalid password** 4.Click submit button	**Email:** amanina1@gmail. com **Pass:** wrongpassword	Show error message "Invalid Email/ password"	Error message "Invalid Email/ password "shown	Pass

RSB_L5 (Login)	Empty fields	1. Navigate to login page. 2. Left email and password field **blanks** 4.Click submit button	**Email:** [blank] **Pass:** [blank]	Show error message "Please fill out this field"	Error message "Please fill out this field" is shown.	Pass

Automated Testing Result

2. REGISTER

Module Name	User Registration	Test Case Description	Test the functionalities of registration section in the system
Tester Name	Nisaa	Date Tested	30-May-2025
Reviewed By	Nisaa	Prerequisites:	Access to Chrome Browser

Test Priority	High		Postrequites:	
Version	1.0		Test Type	Automated

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/ Fail
RSB_R1	Successful register	1. Navigate to register page. 2. Enter valid name 3. Enter valid contact 4. Select role 5. Enter valid email 6. Enter valid password 7. Enter valid confirmation password 8.Click Register button	**Name:** Amanina Selamat **Contact:** 0123456789 **Role:** Inventory Supervisor **Email:** amanina1@gmail.com **Pass:** Pass123! **Cpass:** Pass123!	Succes registers and user redirect to the Login page.	Succes registers and user redirect to the Login page.	Pass
RSB_R2	Invalid Fullname	1. Navigate to register page. 2. Enter **invalid name**	**Name:** Amanina Selamat 123 **Contact:** 0123456789	Show error message "Please match the requested format."	Input data saved.	Fail

		3. Enter valid contact 4. Select role 5. Enter valid email 6. Enter valid password 7. Enter valid confirmation password 8.Click Register button	**Role:** Inventory Supervisor **Email:** amanina1@gmail.com **Pass:** Pass123! **Cpass:** Pass123!			
RSB_R3	Invalid Contact	1. Navigate to register page. 2. Enter valid name 3. Enter **invalid contact** 4. Select role 5. Enter valid email 6. Enter valid password 7. Enter valid confirmation password 8.Click Register button	**Name:** Amanina Selamat **Contact:** 123abc **Role:** Inventory Supervisor **Email:** amanina1@gmail.com **Pass:** Pass123! **Cpass:** Pass123!	Show error message "Please match the requested format."	Error message "Please match the requested format." shown	Pass

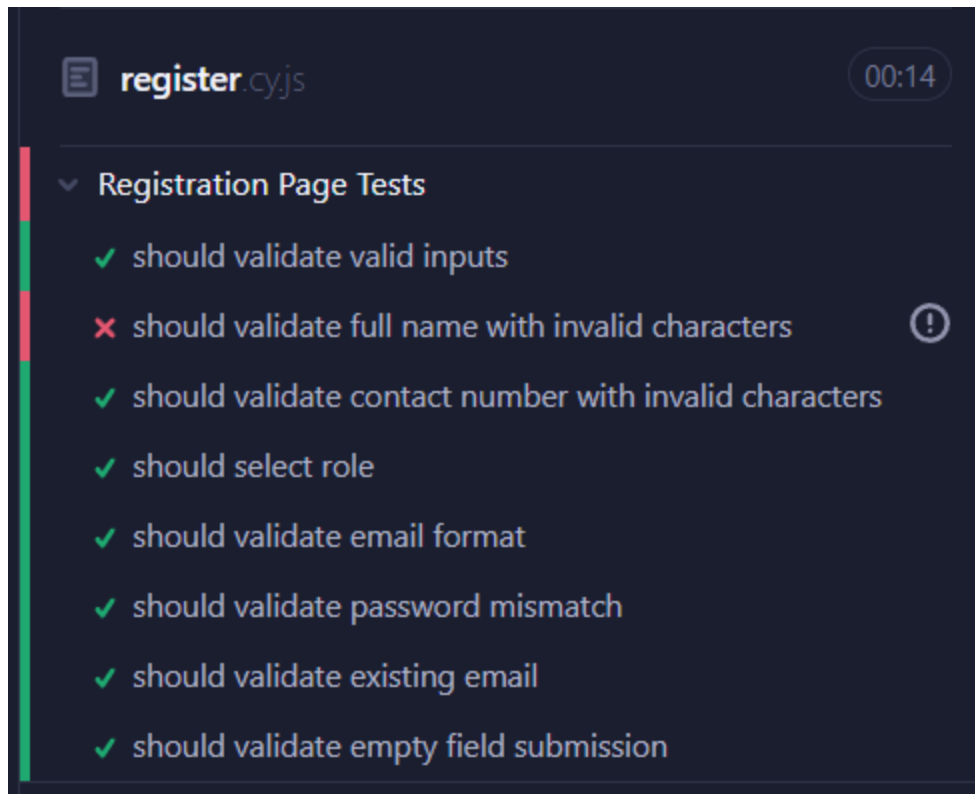|						
RSB_R4	Invalid/ empty Role	1. Navigate to register page. 2. Enter valid name 3. Enter valid contact 4. Select empty role 5. Enter valid email 6. Enter valid password 7. Enter valid confirmation password 8.Click Register button	**Name:** Amanina Selamat **Contact:** 0123456789 **Role:** [empty] **Email:** amanina1@gmail.com **Pass:** Pass123! **Cpass:** Pass123!	Show error massage "Please select an item in the list"	Error message "Please select an item in the list" shown	Pass
RSB_R5	Invalid Email	1. Navigate to register page. 2. Enter valid name 3. Enter valis contact 4. Enter **invalid email** 5. Enter valid password	**Name:** Amanina Selamat **Contact:** 0123456789 **Role:** Inventory Supervisor **Email:** alexsmith	Show error message "Invalid email format. Please enter a valid email address."	Error message "Invalid email format. Please enter a valid email address." shown.	Pass

		6. Enter valid confirmation password 7.Click Register button	**Pass:** Pass123! **Cpass:** Pass123!			
RSB_R6	Invalid Password	1. Navigate to register page. 2. Enter valid name 3. Enter valid contact 4. Select role 5. Enter valid email 6. Enter **invalid password** 7. Enter valid confirmation password 8.Click Register button	**Name:** Amanina Selamat **Contact:** 0123456789 **Role:** Inventory Supervisor **Email:** amanina1@gmail.com **Pass:** Passabc! **Cpass:** Pass123!	Show error message "Invalid password format."	Error message "Invalid password format"	Pass
RSB_R7	Password Mismatch	1. Navigate to register page. 2. Enter valid name 3. Enter valid contact	**Name:** Amanina Selamat **Contact:** 0123456789 **Role:**	Register button disable	Register button disable	Pass

		4. Select role 5. Enter valid email 6. Enter valid password 7. Enter **invalid confirmation password** 8.Click Register button	Inventory Supervisor **Email:** amanina1@gmail.com **Pass:** Pass123! **Cpass:** Pass123			
RSB_R8	Register with existing email	1. Navigate to register page. 2. Enter valid name 3. Enter valis contact 4. Enter **existing email** 5. Enter valid password 6. Enter valid confirmation password 7.Click Register button	**Name:** Amanina Selamat **Contact:** 0123456789 **Role:** Inventory Supervisor **Email:** amanina1@gmail.com **Pass:** Pass123! **Cpass:** Pass123!	Show message "Email already exists"	Message "Email already exists" is shown	Pass

| RSB_R9 | Empty fields | 1. Navigate to register page. 2. Click Register button | **Name:** [blank] **Contact:** [blank] **Role:** [blank] **Email:** [blank] **Pass:** [blank] **Cpass:** [blank] | Show message "Please fill out this field" | Message "Please fill out this field" is shown | Pass |

Automated Testing Result

register.cy.js   00:14

Registration Page Tests

✓ should validate valid inputs

✗ should validate full name with invalid characters   ⓘ

✓ should validate contact number with invalid characters

✓ should select role

✓ should validate email format

✓ should validate password mismatch

✓ should validate existing email

✓ should validate empty field submission

3. PASSWORD STRENGTH

Module Name	Password strength	Test Case Description	Test the functionalities of password strength detection
Tester Name	Nisaa	Date Tested	30-May-2025

Reviewed By	Nisaa	Prerequisites:	Access to Chrome Browser
Test Priority	High	Postrequites:	
Version	1.0	Test Type	Automated

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/ Fail
RSB_P1	Weak password	1. Navigate to register 2. Enter password	**Pass:** P1!	"Weak" is shown	"Weak" is shown	Pass
RSB_P2	Medium password	1.Navigate to register 2. enter password	**Pass:** Pass123a	"Medium" is shown	"Medium" is shown	Pass
RSB_P3	Strong password	1.Navigate to register 2. enter password	**Pass:** Pass123!	"Strong" is shown	"Strong" is shown	Pass
RSB_P4	Invalid password (invalid use of special character)	1.Navigate to register 2. enter password	**Pass:** Pass123|a	Password requirement notice will be shown	Password requirement notice was shown	Pass

Automated Testing Result

password.cy.js   00:04

Password Strength Validation

✓ should show "Weak" for passwords with less than 6 characters

✓ should show "Medium" for passwords with less than 6 characters

✓ should show "Strong" for passwords with less than 6 characters

✓ should show password requirements when info icon is clicked

✓ should prevent submission with weak password

4. ADD NEW INGREDIENTS

Module Name	Add new ingredients	Test Case Description	Test the functionalities of adding new ingredients
Tester Name	Nisaa	Date Tested	30-May-2025
Reviewed By	Nisaa	Prerequisites:	Success login
Test Priority	High	Postrequites:	
Version	1.0	Test Type	Automated

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/ Fail
RSB_I1	Valid input	1.Success login 2. navigate to add new ingredients 3. enter valid code 4. enter valid name 5. enter valid quantity 6. enter valid measurement 7. enter valid date in 8. enter valid expired date 9. click save	**Code:** TEPUL004 **Name:** TEPUNG PULUT **Quantity:** 100 **Measurement:** KG **Date in:** 2025-09-09 **Expired date:**	Show success message "Data Successfully saved"	Show success message "Data Successfully saved"	Pass

			2025-10-09			
RSB_I2	Invalid Code	1.Success login 2. navigate to add new ingredients 3. Enter **invalid code** 4. enter valid name 5. enter valid quantity 6. enter valid measurement 7. enter valid date in 8. enter valid expired date 9. click save	**Code:** ING 001 **Name:** TEPUNG PULUT **Quantity:** 100 **Measuremen t:** KG **Date in:** 2025-09-09 **Expired date:** 2025-10-09	Show message "Ingredient code cannot contain spaces"	Show success message "Data Successfully saved"	Fail
RSB_I3	Invalid quantity	1.Success login 2. navigate to add new ingredients 3. enter valid code 4. enter valid name 5. enter **invalid quantity**	**Code:** TEPUL004 **Name:** TEPUNG PULUT **Quantity:** 100kg **Measuremen t:**	Show success message "Data Successfully saved" and the inserted data has removed other than numerical character	Show success message "Data Successfully saved" and the inserted data has removed other than numerical character	Pass

		6. enter valid measurement 7. enter valid date in 8. enter valid expired date 9. click save	KG **Date in:** 2025-09-09 **Expired date:** 2025-10-09			
RSB_I4	Invalid measurement	1.Success login 2. navigate to add new ingredients 3. enter valid code 4. enter valid name 5. enter valid quantity 6. enter **invalid measurement** 7. enter valid date in 8. enter valid expired date 9. click save	**Code:** TEPUL004 **Name:** TEPUNG PULUT **Quantity:** 100 **Measurement:** KG@123 **Date in:** 2025-09-09 **Expired date:** 2025-10-09	Error message "Please select a valid measurement" is shown	Show success message "Data Successfully saved"	Fail
RSB_I5	Invalid date in	1.Success login 2. navigate to add new ingredients	**Code:** TEPUL004 **Name:**	Show success message "Invalid date format. Such	Show success message "Data Successfully saved"	Fail

		3. enter valid code 4. enter valid name 5. enter valid quantity 6. enter valid measurement 7. enter **invalid date in** 8. enter valid expired date 9. click save	TEPUNG PULUT **Quantity:** 100 **Measurement:** KG **Date in:** 2025-09-32 **Expired date:** 2025-10-09	day do not exist"		
RSB_I6	Invalid expired date	1.Success login 2. navigate to add new ingredients 3. enter valid code 4. enter valid name 5. enter valid quantity 6. enter valid measurement 7. enter invalid date in 8. enter **invalid expired date**	**Code:** TEPUL004 **Name:** TEPUNG PULUT **Quantity:** 100 **Measurement:** KG **Date in:** 2025-09-32	Show success message "Invalid date format. Such day do not exist."	Show success message "Data Successfully saved"	Fail

		9. click save	**Expired date:** 2025-10-32			
RSB_I7	Empty fields	1.Success login 2. navigate to add new ingredients 3. click save	**Code:** [blank] **Name:** [blank] **Quantity:** [blank] **Measurement:** [blank] **Date in:** [blank] **Expired date:** [blank]	Show message "Please fill out this field"	Message "Please fill out this field" is shown	Pass

Automated Testing Result

new_ingredients.cy.js   00:30

∨ Add Ingredients Functionality Tests

  ✔ should allow adding new ingredients

  ✘ Should validate ingredient code format   ⊘

  ✔ should validate quantity with invalid characters

  ✘ should validate measurement with invalid characters   ⊘

  ✘ should validate date in with wrong date format   ⊘

  ✘ should validate date in with wrong date format   ⊘

  ✔ should validate empty field submission

5. ADD NEW SUPPLIER

Module Name	Add new supplier	Test Case Description	Test the functionalities of adding new supplier
Tester Name	Nisaa	Date Tested	30-May-2025
Reviewed By	Nisaa	Prerequisites:	Success login
Test Priority	Medium	Postrequites:	
Version	1.0	Test Type	Automated

1.

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/ Fail
RSB_S1	Valid input	1.Success login 2. navigate to add new supplier 3. enter valid code 4. enter valid name 5. enter valid contact 6. enter valid price 7. enter valid ingredient 8. enter valid measurement 9. click save	**Code:** SUP003 **Name:** SUPPLIER ABC **Contact:** 0123456789 **Price:** 1000 **Ingredient:** Tepung **Measurement:** KG	Show success message "Data Successfully saved"	Show success message "Data Successfully saved"	Pass

RSB_S2	Invalid Code (existing)	1.Success login 2. navigate to add new supplier 3. enter **already existing** code 4. enter valid name 5. enter valid contact 6. enter valid price 7. enter valid ingredient 8. enter valid measurement 9. click save	**Code:** SUP004 (existing) **Name:** SUPPLIER 123 **Contact:** 0123456789 **Price:** 1000 **Ingredient:** Tepung **Measurement:** KG	Show message "Supplier code already exists"	Show message "Supplier code already exists"	Pass
RSB_S3	Invalid Name	1.Success login 2. navigate to add new supplier 3. enter valid code 4. enter **invalid name** 5. enter valid contact 6. enter valid price 7. enter valid ingredient	**Code:** SUP003 **Name:** TEPUNG@#$ **Contact:** 0123456789 **Price:** 1000 **Ingredient:** Tepung **Measurement:**	Show message "Please enter a valid supplier name"	Input saved	Fail

		8. enter valid measurement 9. click save	KG			
RSB_S4	Invalid Contact	1.Success login 2. navigate to add new supplier 3. enter valid code 4. enter valid name 5. enter **invalid contact** 6. enter valid price 7. enter valid ingredient 8. enter valid measurement 9. click save	**Code:** SUP003 **Name:** SUPPLIER ABC **Contact:** 0123456789abc **Price:** 1000 **Ingredient:** Tepung **Measurement:** KG	Show error message "Contact must be numeric"	Show error message "Contact must be numeric"	Pass
RSB_S5	Invalid/ Empty Ingredient	1.Success login 2. navigate to add new supplier 3. enter valid code 4. enter valid name 5. enter valid contact 6. enter valid price	**Code:** SUP003 **Name:** SUPPLIER ABC **Contact:** 0123456789 **Price:** 1000	Show message "Please fill out this field"	Message "Please fill out this field" is shown	Pass

		7. enter valid measurement 8. click save	**Ingredient:** [blank] **Measurement:** KG			
RSB_S6	Invalid Price	1.Success login 2. navigate to add new supplier 3. enter valid code 4. enter valid name 5. enter valid contact 6. enter **invalid price** 7. enter valid ingredient 8. enter valid measurement 9. click save	**Code:** SUP003 **Name:** SUPPLIER ABC **Contact:** 0123456789 **Price:** -89 **Ingredient:** Tepung **Measurement:** KG	Show error message "Price must be a positive number"	Input saved	Fail

| RSB_S7 | Invalid Measurement | 1.Success login
2. navigate to add new supplier
3. enter valid code
4. enter valid name
5. enter invalid contact
6. enter valid price
7. enter valid ingredient
8. enter **invalid measurement**
9. click save | **Code:**
SUP003

Name:
SUPPLIER ABC

Contact:
0123456789

Price:
1000

Ingredient:
Tepung

Measurement:
KG@123 | Show message "Please select a valid measurement" | Input saved | Fail |

| RSB_S8 | Empty Input | 1.Success login
2. navigate to add new supplier
3. enter empty code
4. enter empty name
5. enter empty contact
6. enter empty price
7. enter empty ingredient
8. enter empty measurement
9. click save | **Code:**
Empty

Name:
Empty

Contact:
Empty

Price:
Empty

Ingredient:
Empty

Measurement:
Empty | Show message "Please fill in the fields.t" | Show message "Please fill in the fields.t" | Pass |

Automated Testing Result


```
📄 supplier.cy.js                                      ( 00:20 )

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∨ Add supplier Functionality Tests

    ✓ Test valid characters

    ✗ should validate code with invalid name                    ⊘

    ✓ should validate code with existing code

    ✓ should validate code with empty ingredient

    ✓ should validate contact with invalid contact

    ✗ should validate price with invalid price                  ⊘

    ✗ should validate measurement with invalid measurement      ⊘

    ✓ should validate measurement with empty inputs
```