# Lab.cafe

# Testing Scenarios

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## Workshop testing scenarios

1. The user pauses the product print and decides to continue.

1.

Action: The user searches for their print.

Result: The octoprint system displays the selected print with an option to pause it.

2.

Action: The user decides to pause the print and presses the "PAUSE" button.

Result: The monitor shows the printer status as "stopped" and provides options for "CONTINUE" to resume and "CANCEL" to cancel the print.

3.

Action: The user wants to continue printing and presses the "CONTINUE" button.

Result: The system resumes printing and changes the printer status to "printing."

4.

Action: The user leaves the monitor without further intervention.

Result: Printing continues uninterrupted until completion. The job finish time is recorded.

1. The user pauses the product print and decides to cancel it.

1.

Action: The user searches for their print job.

Result: The system displays the selected print job with an option to pause it.

2.

Action: The user decides to pause the print and presses the "PAUSE" button.

Result: The monitor shows the printer status as "stopped" and provides options for

"CONTINUE" to resume and "CANCEL" to cancel the print.

3.

Action: The user decides to cancel the print and presses the "CANCEL" button.

Result: The system cancels the product print and locks the printer until the print area is cleared.

4.

Action: The user goes to the printer and removes the cancelled product.

Result: The system unlocks the printer, which is now ready for new prints.

5.

Action: The user starts a new print.

Result: The system creates new print job without any reference to the

cancelled print.

1. The system checks for available printers, but none are found.

1.

Action: The user logs into the system.

Result: The system authenticates the user and proceeds to check for available printers.

2.

Action: The system completes the search for available printers.

Result: The system displays the message "No printers found."

1. The system checks for available printers, and one is found.

1.

Action: The user logs into the system.

Result: The system authenticates the user and proceeds to check for available printers.

2.

Action: The system finds printers and displays the list.

Result: The user selects a printer from the list to start the print job.

3.

Action: The user monitors the status of their print on the system interface.

Result: The system displays the print status, including details such as:

1. Printer name

2. Printing progress percentage

3. Estimated printing time

4. Printing start time

5. User card id

4.

Action: The printer completes the print job.

Result: The system confirms the print is completed successfully and updates the

printer's status to "Operational."

## Door access testing scenarios

1. Access granted for a regular user with a card

1.

Action: The user presents a valid membership card to the module.

Result: The green LED lights up, indicating access is granted.

2.

Action: The user observes the green light and opens the door.

Result: The door opens for 3 seconds.

3.

Action: The user presents the card, and the system processes the request.

Result: The process completes within 1 second of card presentation.

1. Access denied for invalid card (card id is not in the system e.g. due to membership expiration)

1.

Action: The user presents a membership card to the module.

Result: The red LED lights up, indicating access is denied.

2.

Action: The user attempts to open the door.

Result: The door remains locked.

3.

Action: The user presents the card, and the system processes the request.

Result: The process completes within 1 second of card presentation.

1. Access granted when the Otello system is offline

1.

Action: The system simulates an offline state by disconnecting the network.

Result: The system operates in offline mode, unable to communicate with Otello.

2.

Action: The user presents a valid membership card to the module.

Result: The green LED lights up, indicating access is granted.

3.

Action: The user observes the green light and opens the door.

Result: The door opens for 3 seconds.

4.

Action: The system processes the card request without requiring Otello.

Result: The process completes successfully in offline mode.

## Café testing scenarios

1. Valid Membership Card

1.

Action: The LabPOS module scans the membership card tapped on the terminal.

Result: The card data is read successfully.

2.

Action: The module sends a request to the database via an API to validate the membership card.

Result: The system confirms that the card is valid.

3.

Action: The system retrieves the customer’s name and membership details.

Result: The member’s name and active status are fetched.

4.

Action: The module displays the member’s name and membership status on the screen.

Result: The waiter sees the confirmation that the customer is a valid member.

5.

Action: The waiter manually applies membership benefits in the payment system.

Result: The transaction is completed with the appropriate membership benefits applied, and the member's details are saved.

1. Expired Membership

1

Action: The LabPOS module scans the membership card tapped on the terminal.

Result: The card data is read successfully.

2.

Action: The module sends a request to the database via an API to validate the membership card.

Result: The system identifies that the membership has expired.

3.

Action: The system retrieves the customer’s name and expired membership status.

Result: The name is fetched, but the membership status shows expired.

4.

Action: The module displays the message "Membership expired. No benefits applied."

Result: The waiter is notified that the membership is no longer valid.

5.

Action: The waiter completes the payment in the system without applying membership benefits.

Result: The transaction is completed without membership benefits, and the expired status is recorded.

1. Invalid Membership Card

1.

Action: The LabPOS module scans the membership card tapped on the terminal.

Result: The card data is read successfully.

2.

Action: The module sends a request to the database via an API to validate the membership card.

Result: The system cannot find a match for the card in the database.

3.

Action: The system returns an error indicating an invalid card.

Result: The card is flagged as invalid.

4.

Action: The module displays an error message: "Invalid card. Please try again."

Result: The waiter is notified that the card is not valid.

5.

Action: The waiter completes the payment in the system without applying membership benefits.

Result: The transaction is completed without membership benefits.