Lab.cafe

Testing Scenarios

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1. Workshop testing scenarios

A. The user approaches the active printing of their product.

1. Action: The user goes to the main monitor and views all printers.

Result: The system displays a list of all available printers, including their statuses.

2. Action: The user scrolls through the list of printers and finds the printer that is printing their product.

Result: The monitor displays the status "Printing" for the selected printer. Along with this, information about the current print is shown:

- Print name
- Printing progress percentage
- Estimated printing time
- Printing start time

3. Action: The user waits 2 minutes and observes if the status updates.

Result: The system updates information at regular intervals and displays the printer's new status.

4. Action: The user decides to leave the monitor without intervention.

Result: The system continues to update information regularly, and printing proceeds without interruption.

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

1. Action: The user goes to the main monitor and searches for their print.

Result: The 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. The system simultaneously halts the printer's operation.

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.

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

1. Action: The user goes to the main monitor and searches for their print.

Result: The 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. The system simultaneously halts the printer's operation.

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

Result: The system requests confirmation for the cancellation with a "YES" button or cancels the request with a "NO" button.

4. Action: The user confirms the cancellation by pressing "YES."

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

5. 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.

6. Action: The user starts a new print.

Result: The system continues with the new print without any reference to the cancelled print.

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

1. Action: The user taps their card to log in to 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 determines that no printers are available and displays the message "No printers found."

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

1. Action: The user taps their card to log in to the system.

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

2. Action: The system finds one or more available printers and displays the list on the monitor.

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. Print name
2. Printing progress percentage
3. Estimated printing time

4. Printing start time

4. Action: The printer completes the print job.

Result: The system confirms the print is completed successfully and updates the printer's status to "Idle."

F. The user presents an invalid card.

1. Action: The user taps their card to log in to the system.

Result: The system verifies the card's validity.

2. Action: The system determines the card is invalid.

Result: The system displays the message "Failed" and denies access.

2. Door access testing scenarios

A. Access granted for a regular user with a MAKER-type card

1. Action: The user presents a valid MAKER-type 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.

B. Access denied for a HOBBY-type card on an invalid day

1. Action: The user presents a valid HOBBY-type membership card to the module on a day other than Wednesday (e.g., Friday).

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.

C. 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 MAKER-type 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 communication with Otello.

Result: The process completes successfully in offline mode.

3. Café testing scenarios

A. 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.

B. 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.

C. 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.