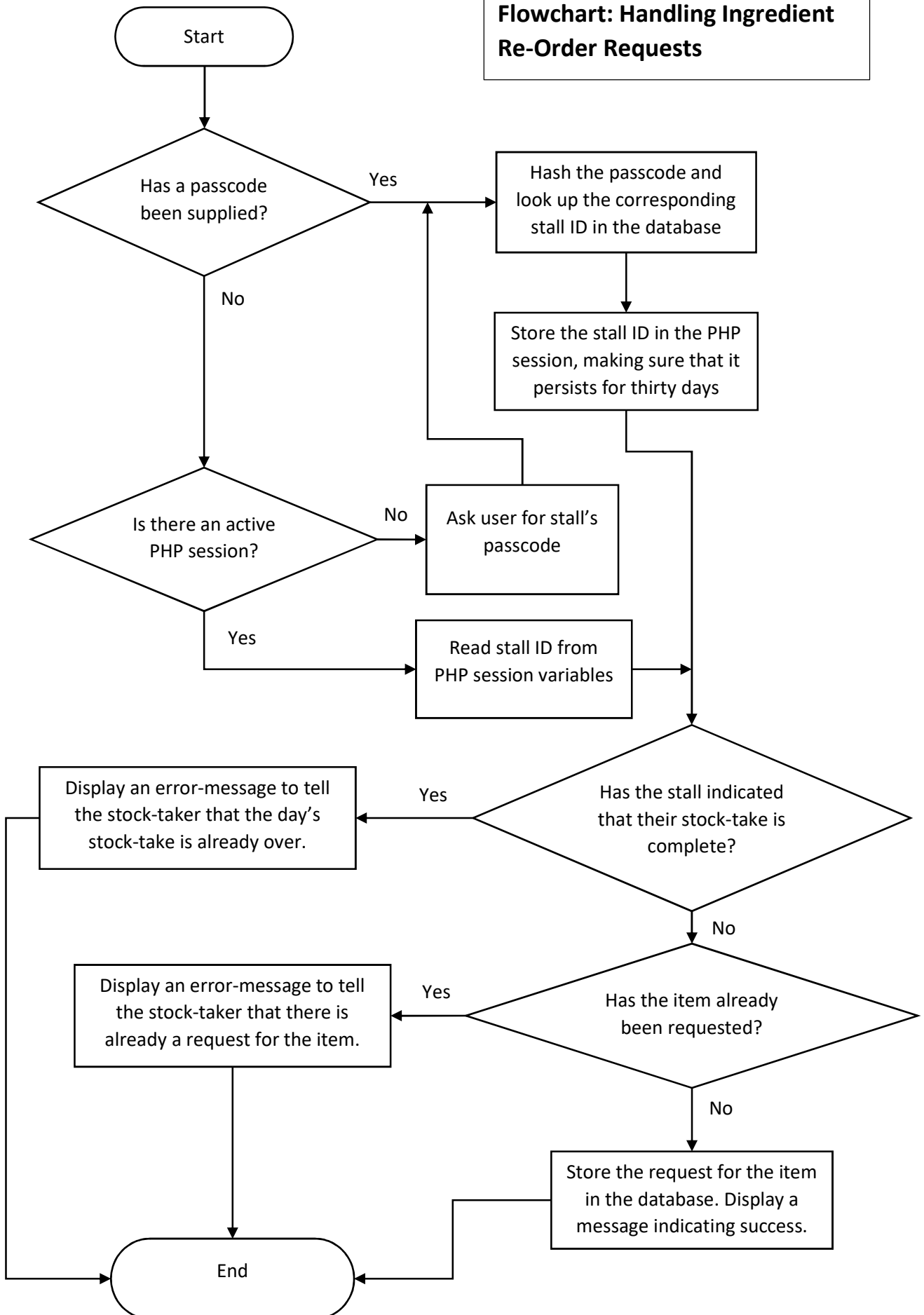
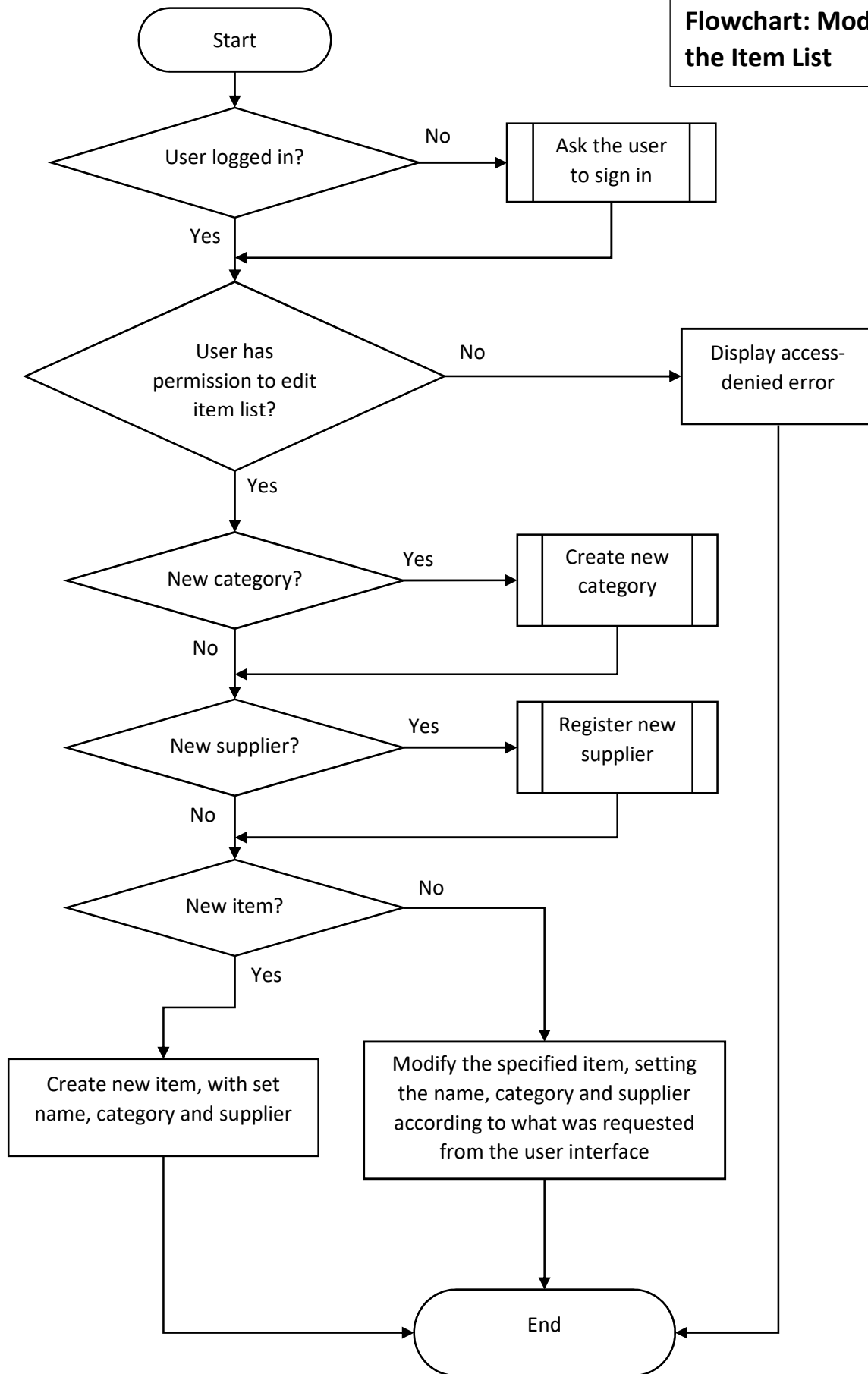


Flowchart: Handling Ingredient Re-Order Requests



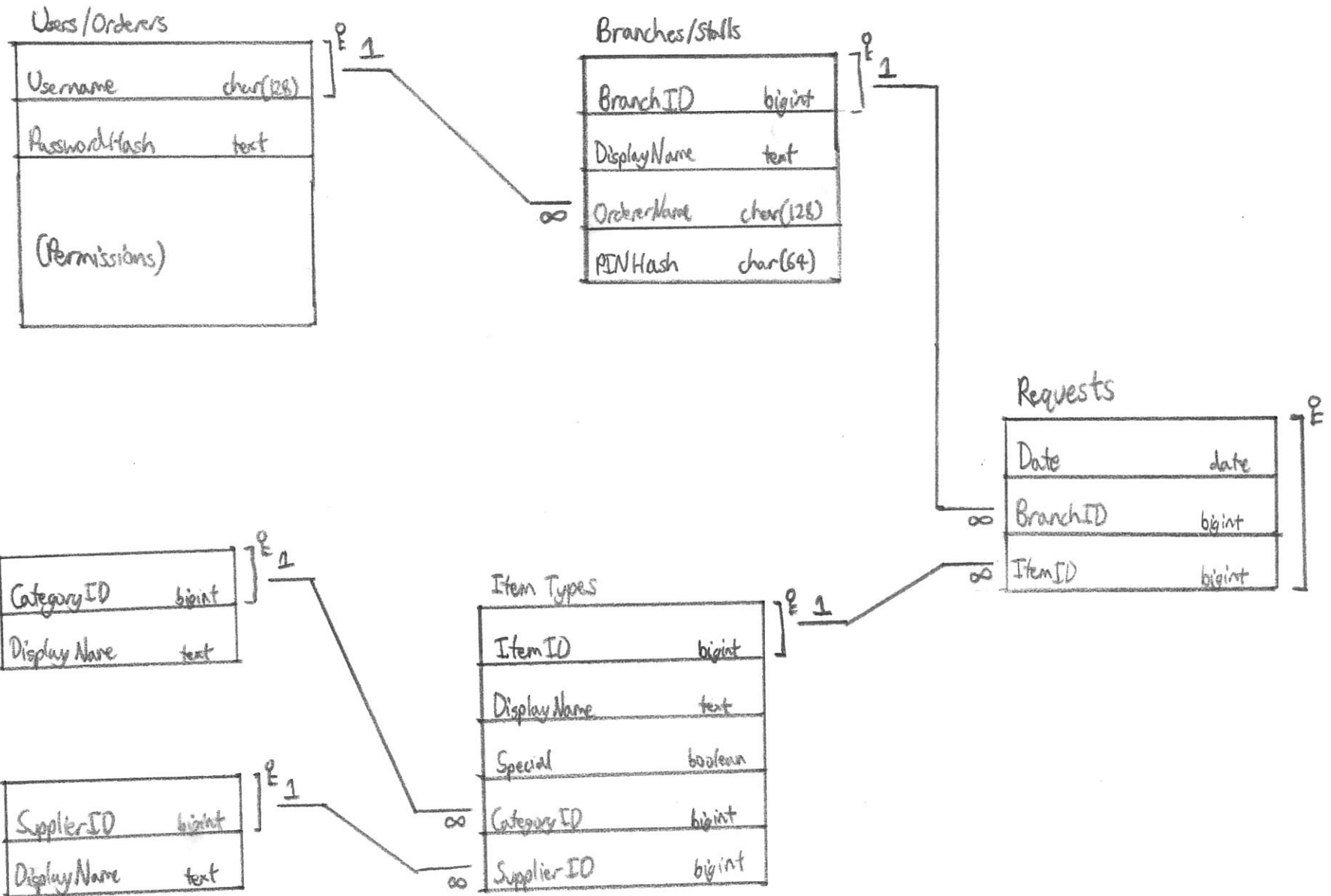
Flowchart: Modifying the Item List



Order-Report Page

- 1) If the user is not logged in, redirect to the login page.
- 2) Check whether the logged-in user (viewer) is permitted to access the page. If they are not, only show an access-denied message on the screen.
- 3) Query the database for the list of stall locations that the user places orders for, as well as whether they have started and/or finished a stock-take that day.
 - a) A stall is considered to have started a stock-take if there is at least one request in the database from today, from that stall
 - b) A stall is considered to have finished a stock-take if there is a stock-take-complete request in the database from today, from that stall
- 4) Query the database for the list of categories, storing them in an associative array that maps category IDs to names.
- 5) Query the database for the list of suppliers, storing them in a similar way to the categories.
- 6) If the user is permitted to view the order reports that would be seen by other users, query the database for users that the current user is permitted to access.
- 7) Display the list of users in a drop-down menu, if the user is permitted to view other users' reports.
- 8) For each stall in the list of stall locations,
 - a) Query the database for the number of requests that they have made that day.
 - b) If there are no requests from the stall, display a red stock-take-not-started notice.
- 9) For each stall in the list of stall locations,
 - a) Query the database for whether they have completed a stock-take that day.
 - b) If the stall has made requests, but they have not completed the stock-take, display a yellow stock-take-not-complete notice.
- 10) If the user has not selected a method of categorisation:
 - a) Query the database for stall requests such that:
 - i) The request is from one of the stalls that the current user (or the user they selected in the Step 7 drop-down menu) manages
 - ii) The request is from today
 - iii) The request is for an item, rather than for starting/ending a stock-take
 - b) For each request, output a row for the table, containing:
 - i) The stall name
 - ii) The item-category name
 - iii) The supplier name
 - iv) A description of the item
- 11) Otherwise, the user has selected a categorization method:
 - a) Create a list of stalls, item-categories or suppliers, depending on how the user has decided to categorise the data
 - b) For each element of the created list:
 - i) Query the database for stall requests such that:
 - (1) The requirements in step 10) a) are met
 - (2) The stall/item-category/supplier (depending on user's categorisation) is the same as the current element of the list
 - ii) If any requests match, output a header-row containing the stall name/item-category name/supplier name
 - iii) For each request, output a row for the table, containing:
 - (1) The stall name, if it does not appear in the heading
 - (2) The item-category name, if it does not appear in the heading
 - (3) The supplier name, if it does not appear in the heading
 - (4) A description of the item

Database Diagram - My Nomads Inventory System



My Noma's Inventory System

Generate Barcodes
Order Report

Only shown if logged in

Account

Sign In

Only show if not logged in

Sign Out (username)
Change Password

Only show if logged in

Item Database

Edit Items
Edit Categories
Edit Suppliers
Remove Item
Remove Category
Remove Supplier

Only shown if user has permission

Stalls

Add/Edit Stalls
Remove Stall

Only show if user has permission

Order Report

Not shown if there are no notices

Notices

[Stall Name] has not performed a stock-take today.

[Stall Name] is performing a stock-take.

Red border, light-red background

Yellow border, light-yellow background

Orders

Selected option is shaded darker

Grouping: ☐ None ☒ By stall ☐ By category ☐ By supplier

If a grouping is selected, the corresponding column should not be shown.

Stall	Category	Supplier	Item
[Group Heading] - Bold text, shows name of stall/category/supplier			
Stall 1	Dry Foods	Supplier 1	Penne Pasta (500g pkt)
		⋮	
[Group Heading 2]			
Stall 2	Bread	Supplier 2	Sandwich Loaf (x8 pkt)
		⋮	

Sign In

Sign In

[Notice]

Username

Password

☒ Remember

Sign In

Red background

Displayed when there is an error
'Incorrect password', 'Sign in is required', etc.

Displays "Username" when not filled in

Displays "Password" when not filled in
should not show password, but dots instead:

.....

Logs in and redirects to homepage

Add/Edit Item

[Item Selector] ▼ - Drop-down menu to select item to edit (or a new item)

Name: [Item Name] - Text-box to type new name of item

Category: [Category Selector] ▼ - Drop-down menu to select item's category

Category Name: [New category name] - Text-box to type new name of category (if adding/rename)

Supplier: [Supplier selector] ▼ - Drop-down menu to select item's supplier

Supplier Name: [New supplier name] - Text-box to type new name of supplier (if adding/rename)

[Submit] - Sends changes to server

Edit Stalls

Add/Edit Stall

[Stall Selector] ▼ - Select stall to edit (or [New Stall])

Name: [Stall Name]

Manager: [User Selector] ▼ - Select who is responsible for ordering for the stall (whose order report it appears on)

PIN: [Stall PIN] - Optionally change the PIN for the stall

[Confirm PIN] - PIN should not be changed, if confirm PIN is different

Strength: [Weak] [Strong] [Very Strong] - Password strength measurement

[Submit]

Remove [Item | Category | Supplier | Stall]

[Selector]

- Dropdown menu:
Select element
to remove

Remove

Notes for Selections in Drop-down Menus

- Whenever an item/ingredient needs to be selected with a drop-down menu, the items should be grouped by their Category.
- Whenever a stall needs to be selected with a drop-down menu, the stalls should be grouped by the user which processes their order requests (their Order Name).

Barcode Generation

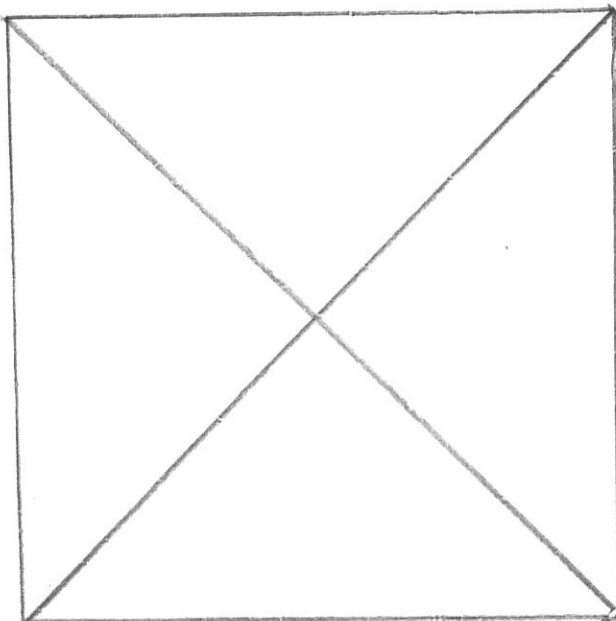
[Item Selection]

- Dropdown menu:
Selects which item will
be requested when the barcode
is scanned (or Begin/End
Stock-Take)

Generate

Select an item and press the Generate button to create a QR code.

Click on the QR code to download it.



- QR code image
- 300x300 px
- Redirect to page that places an order request for the selected item (when scanned)
- Clicking the image will allow the user to download it

- Only display this message when no item has been selected yet.

- Only display the message and QR code if an item has been selected.

Testing Table

Description	Steps to Test	Correct Behaviour	Actual Behaviour
Management Sign-in Correct credentials	Use homepage/navbar to navigate to admin sign-in page Type in credentials for testing user Submit credentials (Press Enter key or Sign In button) Navigate to reports page	"Sign Out" link replaces "Sign In" link Browser redirects to homepage Access is granted to reports page	As expected
Management Sign-in Repeated logins	Navigate to admin sign-in page Close browser window after verifying	Sign-in page displays a warning that a user is already logged in, and presents two options: log out / return to homepage.	As expected
Management Sign-in Unregistered username	Navigate to admin sign-in page Type in a known-incorrect username and password Submit credentials (Press Enter key or Sign In button) Attempt to navigate to reports page with navbar Attempt to navigate to reports page by direct link	Browser redirects to sign-in page with "invalid login details" notice Reports-page link should be absent from navbar No access granted to reports page, instead redirects to sign-in page with "please log in to access" notice	As expected
Management Sign-in Incorrect password	Navigate to admin sign-in page Type in test user's username and an incorrect password Submit credentials (Press Enter key or Sign In button) Attempt to navigate to reports page with navbar Attempt to navigate to reports page by direct link	Response must be the same as above Note: Potential attackers must not be able to differentiate between 'incorrect username' and 'incorrect password'	As expected

Management Sign-in Signing out	Log in as testing user Click "Sign Out" link Attempt to navigate to reports page	"Sign In" link replaces "Sign Out" link after signing out Browser redirects to homepage No access granted to reports page	As expected
Order Report Inspections not done	Log in as testing user Navigate to reports page	On the reports page, a red "store has not performed an inspection today" notice should be displayed for every test-store managed by the testing user	As expected
Inspections Log-in on first item - Incorrect	Open item-ordering page in new browser window Type incorrect password into login page Close browser window	The item-ordering page should redirect to an inspector login page Browser should redirect back to inspector login page, with "invalid password" notice	As expected
Inspections Log-in on first item - Correct	Open item-ordering page in new browser window Type correct password for one of the test-stores into login page Close browser window	The item-ordering page should redirect to an inspector login page Browser should redirect to a content-less, green page that places an order for the item in the database	As expected
Order Report Pending inspections	Log in as testing user Navigate to reports page	On the reports page, a yellow "inspection pending" notice should be displayed for the test-store chosen in the previous test The exact order made should not be visible	The order is visible
Inspections Repeated scan	Open item-ordering page for the same item in a new browser window Close browser window after verifying	An error message with a red background should be displayed, alerting the user that the requested item has already been ordered for that store today	As expected

Inspections Ordering subsequent items	Open item-ordering page for a different item in a new browser window Close browser window after verifying	Browser should display a content-less, green page that places an order for the item in the database	The page contains a success message rather than nothing
Inspections Signalling end of inspection	Open item-ordering page for the special "end-of-inspection" item in a new browser window Close browser window after verifying	Browser should display a green page that records the end-of-inspection request in the database	The page contains a success message rather than nothing
Order Report Completed inspection	Log in as testing user Navigate to reports page	On the reports page, no notices should be displayed about the test-store that the Inspections tests were tried with (although there may be notices for other test-stores) The items that were ordered during the tests should be displayed in a table	As expected
Edit Category Blank Name	Log in as testing user with item-editing permissions Open edit-categories page Select [New Category] and type no name Press the Submit button	Browser should require the Name field to be filled in If the "required" attribute of the Name field is removed, the request should still be rejected by the server, with an error message	As expected
Edit Category New Category	Open edit-categories page Select [New Category] and enter the name "Test Category" Press the Submit button	The request should succeed with a success message, and "Test Category" should be added to the list of selectable categories	As expected
Edit Category Rename Category	Open edit-categories page Select "Test Category" Replace the name with "Test Category 2" Press the Submit button	The Name box should be automatically filled with the name "Test Category" The request should succeed, and "Test Category 2" should appear instead of "Test Category" in the list.	As expected

Edit Category Blank Rename	Select "Test Category 2" Blank the category name text-box Press the Submit button	Test Category 2 should be present and unchanged	As expected
Remove Category No Selection	Open remove-categories page Press the Remove button	The request should fail, asking the user to select a category.	As expected
Remove Category Category Selected	Select "Test Category 2" Press the Remove button	The request should succeed, and "Test Category 2" should no longer be in the list of selectable categories.	As expected
Edit Item New Item, New Category, New Supplier	Open edit-items page Select "[New Item]", "[New Category]", "[New Supplier]" For the names, enter "Test Item", "Test Category", "Test Supplier" Press the Submit button	The request should succeed with a success message Test Category should have been created Test Supplier should have been created Test Item should have been created, in category Test Category, supplied by Test Supplier	As expected
Edit Item New Item, Existing Category, Existing Supplier	Select "[New Item]", "Test Category", "Test Supplier" For the item name, enter "Test Item 2" Press the Submit button	The request should succeed with a success message Test Category should still exist Test Supplier should still exist Test Item 2 should have been created, in category Test Category, supplied by Test Supplier	As expected
Edit Item Rename Item	Select "Test Item" Change the item name to "Test Item Renamed" Press the Submit button	The request should succeed with a success message Test Item should be replaced with Test Item Renamed, still in category Test Category and supplied by Test Supplier	As expected

Edit Item Move to New Category	Select "Test Item 2" Change the category to "[New Category]" and set the category name to "Test Category 2" Press Submit	The request should succeed Test Category 2 should have been created Test Item 2 should be moved from Test Category to Test Category 2	As expected
Edit item Move to Existing Category	Select "Test Item 2" Change the category to "Test Category" Press Submit	The request should succeed Test Item 2 should be moved from Test Category 2 to Test Category Test Category 2 should be either empty or invisible in the item-selection menu	As expected
Edit Item Blank Rename	Select a test-item Blank the item name text-box Press Submit	All items should be unchanged	As expected
Remove Item Normal Operation	Navigate to "Remove Item" page Select a test item Press the Remove button	Test Item should no longer be present No other items should have been changed	As expected
Remove Item No Selection	Navigate to "Remove Stall" page Press the Remove button, without selecting anything	An error message should be displayed, asking the user to select an item No items should have been removed or modified	As expected
Edit Stall New Stall	Navigate to "Add/Edit Stall" page Select "[New Stall]", enter the name "Test Stall" and the PIN "teststall1" Press submit button	A new stall called "Test Stall" should appear in the stall-selection drop-down	As expected

Edit Stall Rename Stall	Select "Test Stall" Change the name to "Test Stall 2" Press the submit button	"Test Stall" should be replaced with "Test Stall 2" in the selection menu	As expected
Inspections New Stall	Navigate to inspector-login page Enter the PIN "teststall1"	A success message should be displayed, saying that Test Stall 2 has started a stock-take	As expected
Remove Stall Normal Operation	Navigate to "Add/Edit Stall" page Select "[New Stall]", enter the name "Delete Test Stall" and the PIN "deletestall2" Presss the submit button Navigate to "Remove Stall" page Select "Delete Test Stall" Press the Remove button	Both requests should succeed No new stalls should be present, and no existing stalls should have been changed	As expected
Remove Stall No Stall Selected	Navigate to "Remove Stall" page Press the Remove button, without selecting anything	An error message should be displayed, asking the user to select a stall. No stalls should have been changed	As expected
Remove Stall Stall In Use	Navigate to "Remove Stall" page Select "Test Stall 2" Press the Remove button	An error message should be displayed, telling the user that the stall cannot be deleted.	As expected
Generate Barcode	Navigate to "Generate Barcode" page Select a test item Scan the resulting QR code with a mobile device On the device, type "teststall1" for the PIN code	The QR code should direct the device's browser to the inspector-login page. After entering the PIN code, the browser should display a success message.	As expected