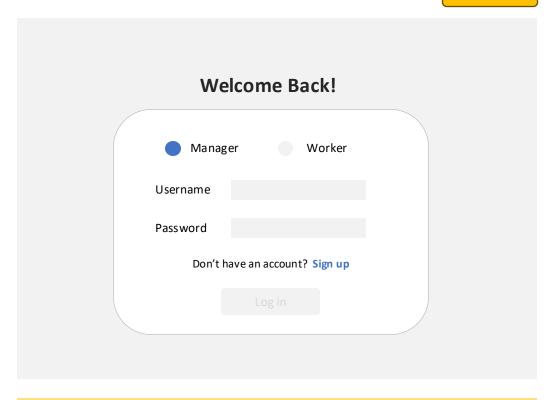
# MCI Project LS1 - Warehouse Packing

Product Demo and Interaction Diagram V2

### Home Page

Default





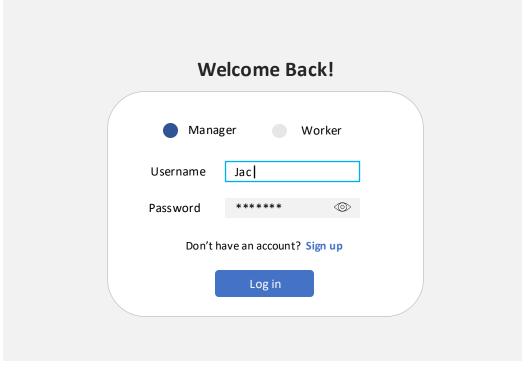
### **Default Login Page (Home Page)**

User Status: Not logged in

- Login button is initially grayed out and not clickable
- Form fields are in inactive state
- "Manager" option is selected by default, user can click to switch to "Worker" option

V2 Added:

Click the 'Sign Up' switch to create an account popup



### **Activated Login Page**

User Status: Not logged in

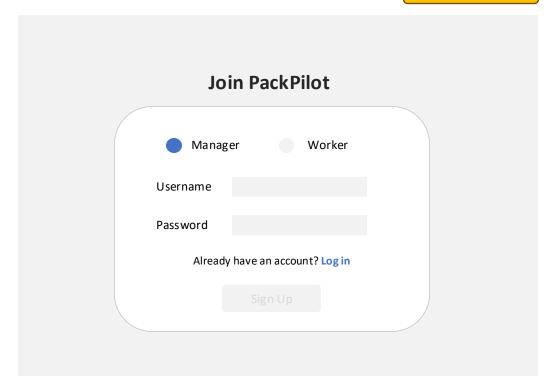
- Login button becomes clickable only when both username and password fields have input
- Password field is hidden by default, with a "Show/Hide" toggle button provided
- $\bullet \quad \text{Input is truncated when it exceeds the field width, preventing further input} \\$

Others:

The definition of Username and Password requirements (length/characters)

# Home Page

Sign up (default)



#### Default Sign up Page

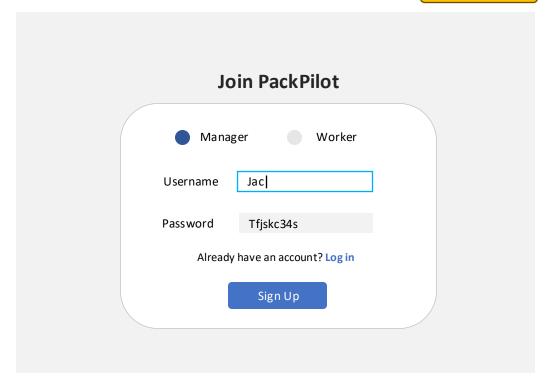
User Status: Not logged in

- SignUp button is initially grayed out and not clickable
- Form fields are in inactive state
- "Manager" option is selected by default, user can click to switch to "Worker" option

V2 Added:

Click the 'Log in' switch back to Log in

Sign up (active)



### Activated Sign up Page

User Status: Not logged in

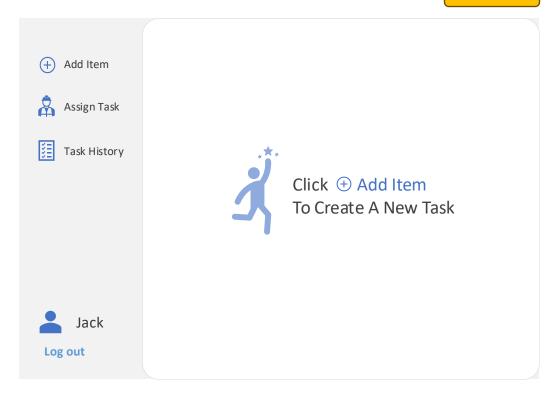
- Sign up becomes clickable only when both username and password fields have input
- Password field is displayed
- $\bullet \quad \text{Input is truncated when it exceeds the field width, preventing further input} \\$

Others:

The definition of Username and Password requirements (length/characters)

### Manager Console Page

Default



### **Default State of Manager Page**

User Status: Manager logged in

The left sidebar is the console area, and the right displays list of added items.

The right side is empty in the following cases:

- Display all the added but not assigned tasks (if no added item, display a default note)
- After manager assigns a task, list will remove all the assigned items (unassigned items will remain) Interactions:
- Click buttons on the left sidebar, trigger operation popups on the current page
- Click "Logout" displays a confirmation popup; after confirm, returns to the home page

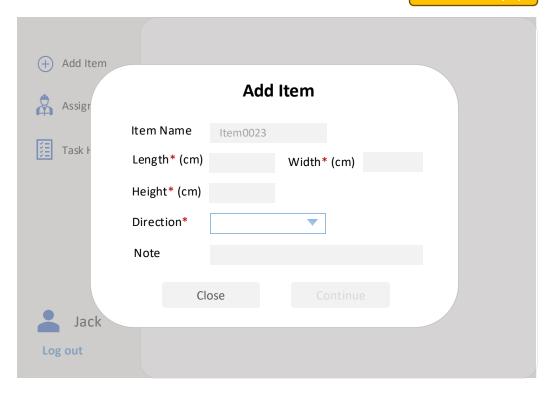
Name Size Direction Add Item X Item0001 10\*200\*300 face up fragile X Item0001 10\*200\*300 face up fragile Assign Task X Item0001 10\*200\*300 fragile fragile testing testin... 🖍 🗙 Item0001 10\*200\*300 Task History X Item0001 100\*2000\*3000 face up / X Item0001 100\*2000\*3000 face up fragile X Item0001 100\*2000\*3000 face up fragile X Item0001 100\*2000\*3000 face up fragile X Item 0001 100\*2000\*3000 face up fragile X Item0001 100\*2000\*3000 face up fragile Jack Log out

### **Active State of Manager Page**

User Status: Manager logged in

- · When a manager adds an item, a new item is added to the list with its detailed info displayed
- Text that exceeds the form width is truncated with ellipsis
- When added items exceed the container, adjustment controls appear to support vertical scrolling
- Backend/frontend needs to limit the max number of items a user can add per task (e.g., 50 items) Interactions:
- · Click edit button brings up the "add item" popup with the item's current parameters pre-filled
- · Click delete button displays a confirmation popup; click confirm removes the item from the list

Add Item Popup



### **Add Item Popup**

User Status: Manager logged in

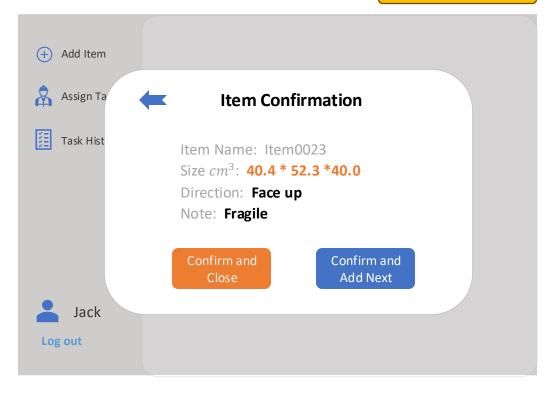
#### Form Description:

- Item Name: Automatically assigned, cannot be modified; Item Size (Required): Manual input
- Item Direction (Required): Selected from dropdown (pre-set by frontend, not customizable)
- Item Note (Optional): User input, limited to a maximum (eg. xx words)

#### Interactions:

- Appears after clicking Add Item on the control panel, closes when Close is clicked
- The default state shows empty inputs, the Continue button is grayed out and disabled
- Continue button becomes active and clickable when all required fields are completed
- After clicking the Continue button, show the Item Confirm popup

**Confirmation Popul** 



#### Add Item -> Confirm Popup

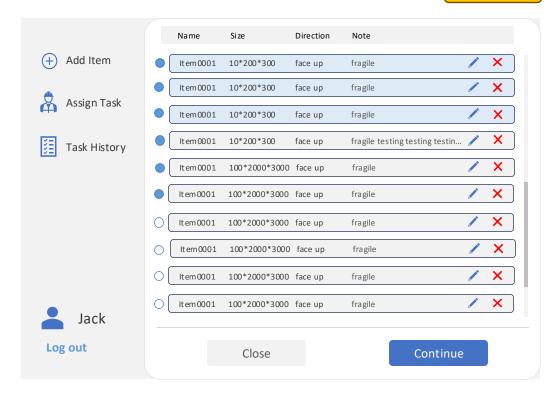
User Status: Manager logged in

Display info of the current added item (display length, width and height as L\*W\*H)

#### Interactions:

- Click the back button on the top left of the popup, back to the previous popup (Add Item), user can edit and update the paras disappear
- · Click Confirm and Close button, current item will insert in to the end of the item list, and the popup
- Click Confirm and Add Next button, current item will insert in to the end of the item list, and show the Add item popup, user can continue add another item

Assign Task



#### Assign Task

User Status: Manager logged in

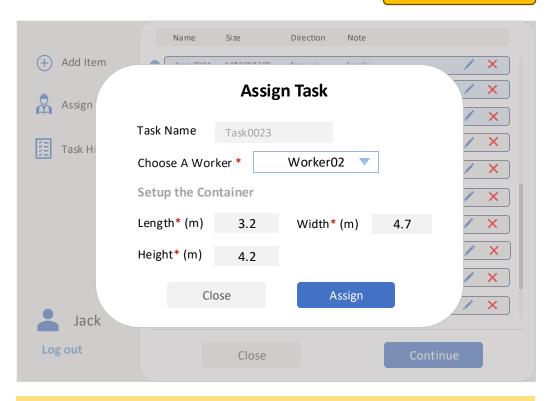
#### Interactions:

- Appears select button of each item after clicking Assign Task on the control panel
- After selecting a certain item, the item appears selected state (coloured)

#### Item list:

- The default state, all items are unselected, Continue button is inactive
- When items are selected, Continue becomes clickable.
- Click Continue button, the Assign Task popup appears

Assign Task Popup



#### Assign Task Popup

User Status: Manager logged in

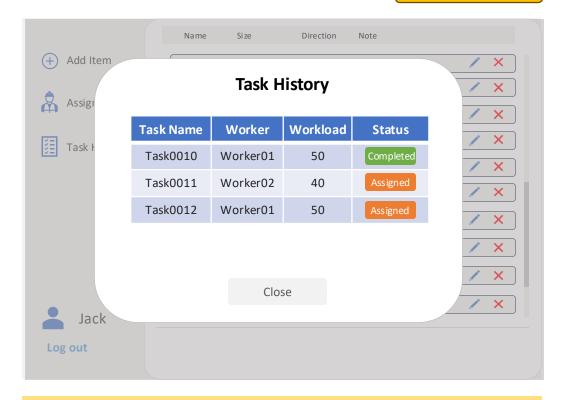
#### Form Description:

- Task Name: Automatically assigned, cannot be modified
- · Choose a Worker (Required): Selected from dropdown (data comes from backend worker list)
- Container Size (Required): Manual input, displays warehouse dimensions of previous settings

#### interactions:

- The default state shows empty inputs, the Assign button is grayed out and disabled
- · Assign button becomes active and clickable when all required fields are completed
- After clicking Assign button, the popup closes and all assigned items are removed from the item list indicating the task setup is complete

Task History Popup



### **Task History Popup**

User Status: Manager logged in

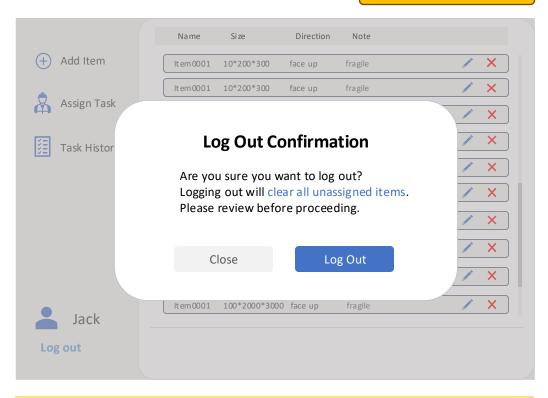
#### Interactions:

- Appears select button of each item after clicking Assign Task on the control panel
- After selecting a certain item, the item appears selected state (coloured)

#### Item list:

- The default state, all items are unselected, Continue button is inactive
- When items are selected, Continue becomes clickable.
- Click Continue button, the Assign Task popup appears

Log out Confirm Popup



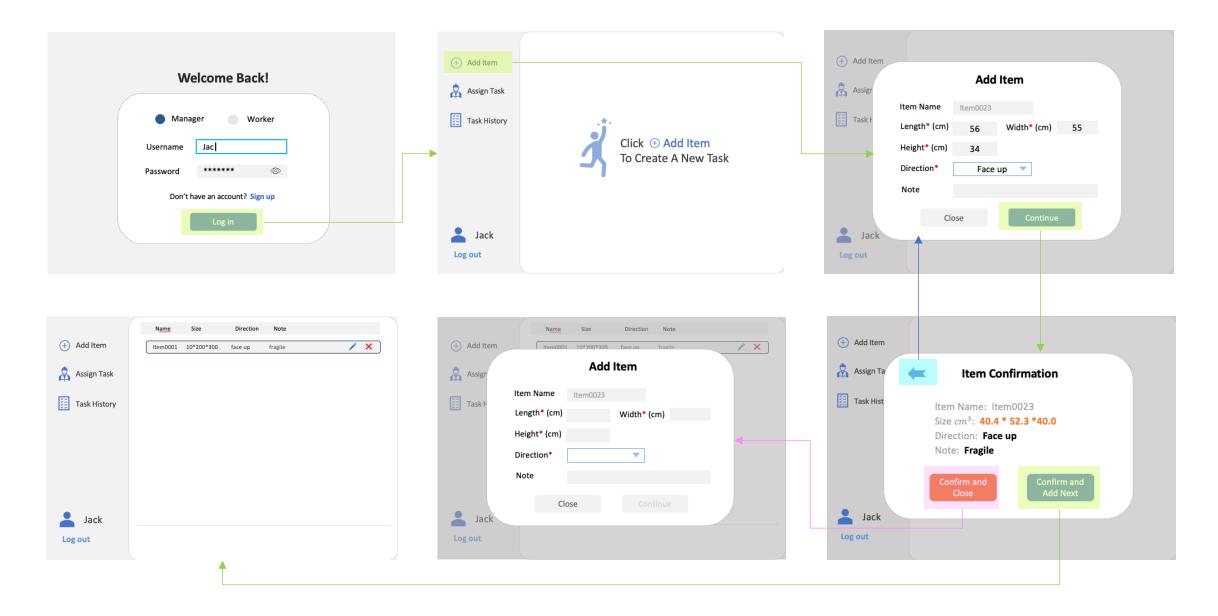
### **Logout Confirmation Popup**

**User Status**: Manager logged in Shows prompt message

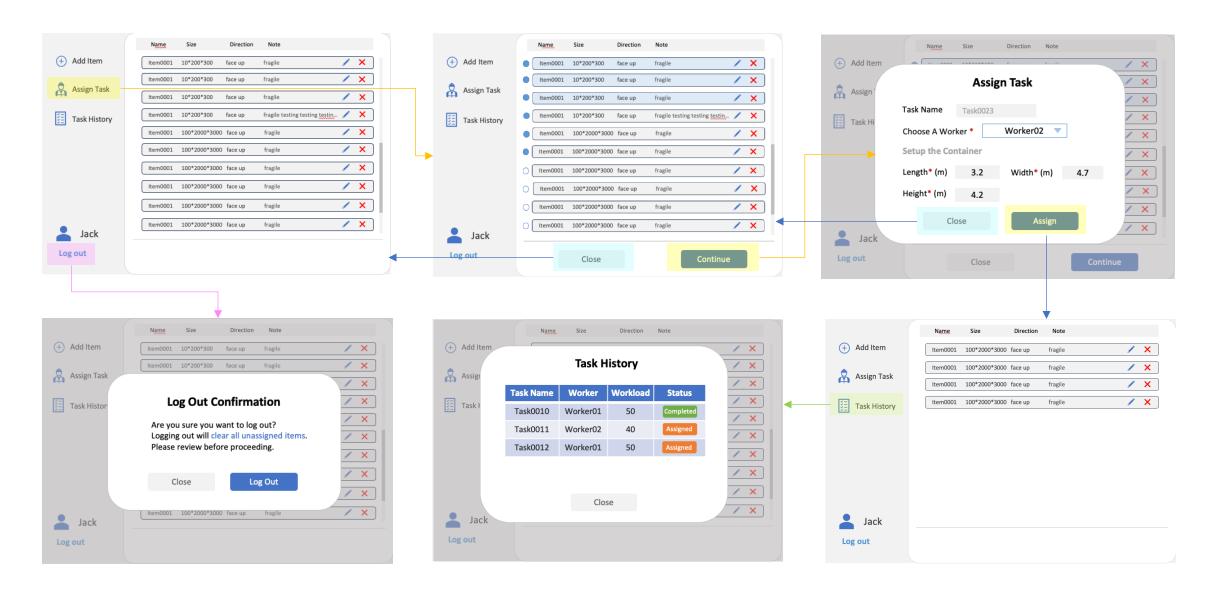
#### Interactions:

- After clicking Log out, exits the Manager account and return to the homepage (login page);
   currently entered items (unassigned) are automatically cleared
- After clicking Close button, the popup is closed

# Manager Console Page – Interactions Diagram



## Manager Console Page – Interactions Diagram



### Worker Console Page

>>> Next Item

((Click >>> Next Item

To Start A New Task

Nothing to do ...

### **Default State of Worker Page**

User Status: Worker logged in

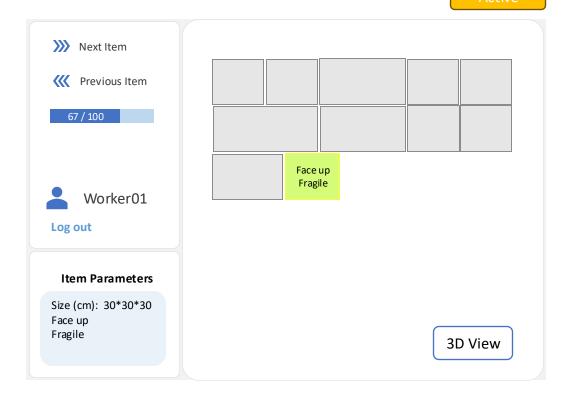
**Three sections:** operation panel on the upper left, current placement item info on the lower left, and placement view on the right.

When the worker logged, check if the worker has assigned tasks:

- if has at least one task, right panel shows click next to start task and the progress bar displays 0/0
- If has no task, right panel shows you don't have tasks, and the progress bar displays 0/0

#### Interactions:

- Click Next: displays current item info, right view shows default is 2D, click button to switch to 3D
- Click Previous: displays previous item info. If no previous item exists, will toast prompt user
- Click Log out: displays logout confirmation popup, after confirming returns to the home page



### **Active State of Worker Page**

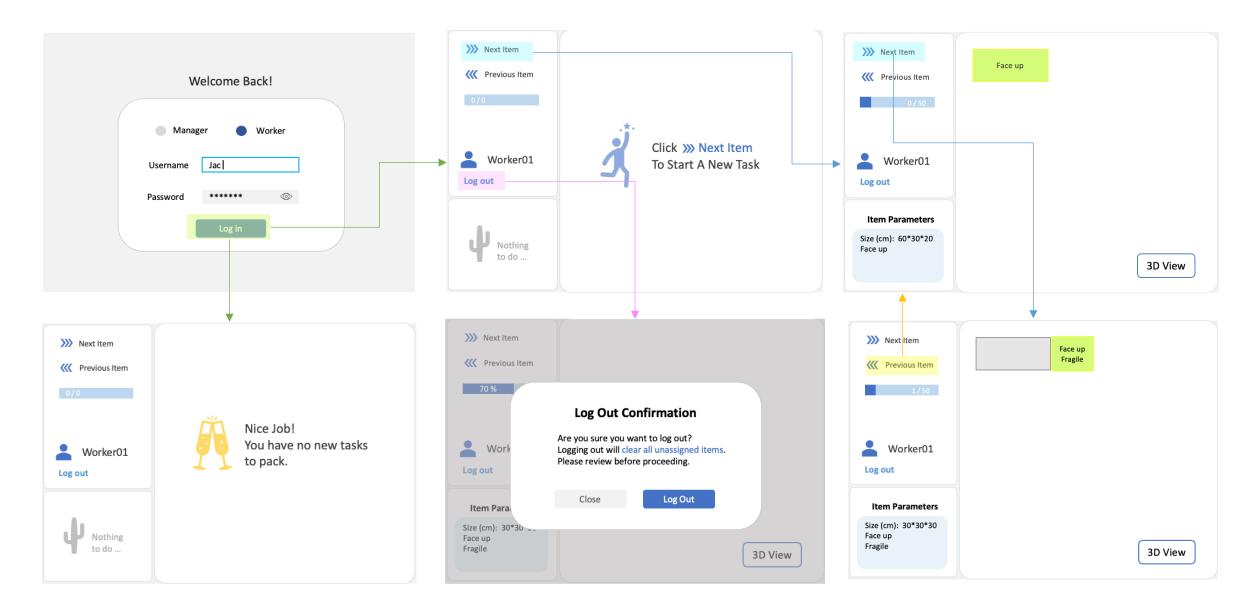
User Status: Worker logged in

The progress bar changes according to the completion status of the current task; The display section highlights the current item (with item info shown) and greyed all previous item

#### If all tasks are completed and the worker clicks Next:

- item information returns to the default state
- toast prompts that the current task is completed
- progress bar resets to 0/0
- check if the worker has assigned tasks:
  - If so, the right panel shows click to start a new task
  - If not, the right panel shows you don't have tasks

# Worker Console Page – Interactions Diagram

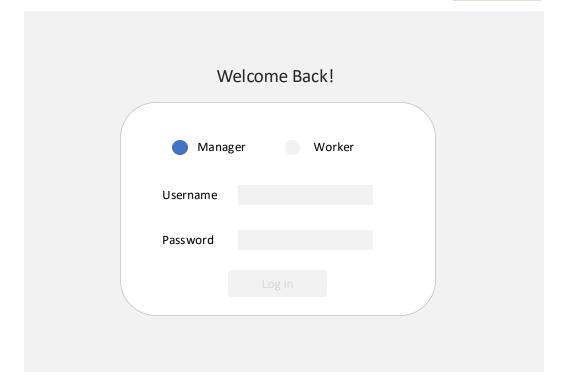


# MCI Project LS1 - Warehouse Packing

Product Demo and Interaction Diagram V1

## Home Page

Default

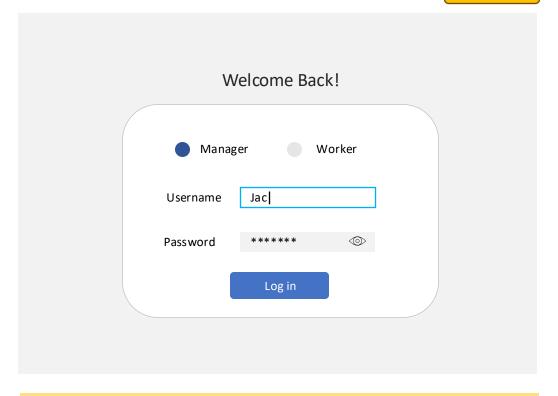


### **Default Login Page (Home Page)**

User Status: Not logged in

- Login button is initially grayed out and not clickable
- Form fields are in inactive state
- "Manager" option is selected by default, user can click to switch to "Worker" option

Active



### **Activated Login Page**

User Status: Not logged in

- Login button becomes clickable only when both username and password fields have input
- Password field is hidden by default, with a "Show/Hide" toggle button provided
- $\bullet \quad \text{Input is truncated when it exceeds the field width, preventing further input} \\$

Others:

The definition of Username and Password requirements (length/characters)

### Manager Console Page

Click 

Add Item

To Create A New Task



### **Default State of Manager Page**

User Status: Manager logged in

(+) Add Item

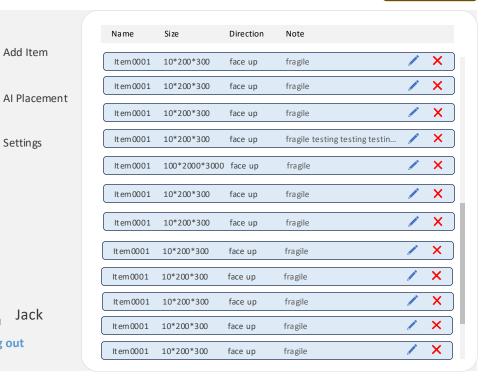
Settings

Log out

Al Placement

The left sidebar is console area, the right displays list of added items (empty by default). The right side is empty in the following cases:

- Default state after manager login
- After a manager assigns a task, the list is cleared and returns to the default state Interactions:
- Click buttons on the left sidebar, triggers operation popups on the current page
- Click "Logout" displays a confirmation popup; after confirm, returns to the home page



### **Active State of Manager Page**

User Status: Manager logged in

Add Item

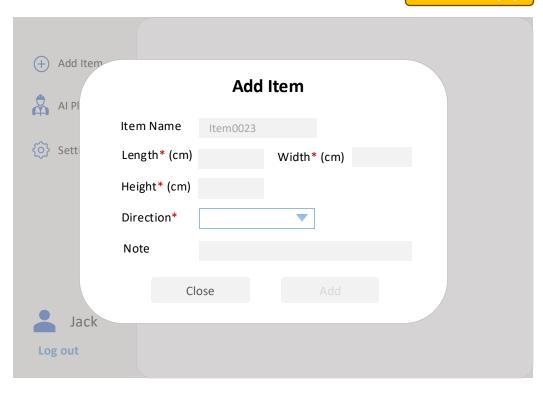
Settings

Jack

Log out

- When a manager adds an item, a new item is added to the list with its detailed info displayed
- Text that exceeds the form width is truncated with ellipsis
- When added items exceed the container, adjustment controls appear to support vertical scrolling
- Backend/frontend needs to limit the max number of items a user can add per task (e.g., 50 items) Interactions:
- · Click edit button brings up the "add item" popup with the item's current parameters pre-filled
- · Click delete button displays a confirmation popup; click confirm removes the item from the list

Add Item Popup



### **Add Item Popup**

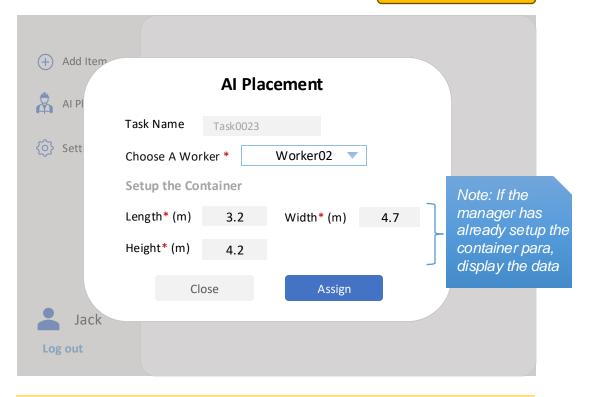
User Status: Manager logged in Form Description:

- Item Name: Automatically assigned, cannot be modified; Item Size (Required): Manual input
- Item Direction (Required): Selected from dropdown (pre-set by frontend, not customizable)
- Item Note (Optional): User input, limited to a maximum (eg. xx words)

#### Interactions:

- Appears after clicking Add Item on the control panel, closes when Close is clicked
- The default state shows empty inputs, Add button is grayed out and disabled
- Add button becomes active and clickable when all required fields are completed
- After clicking Add button, a new item is added to the item list. Popup remains open and resets to initial state (allowing user to continue adding items)

Al Placement Popup



#### **Al Placement Popup**

**User Status**: Manager logged in

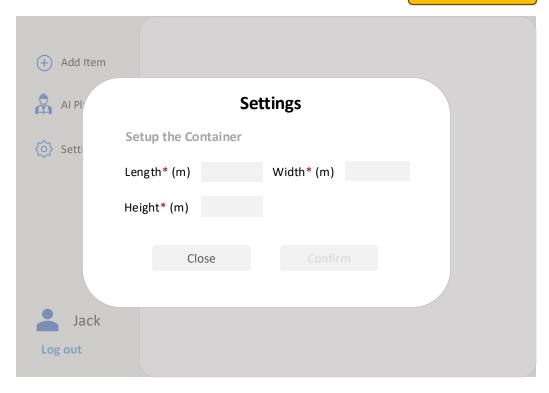
#### Form Description:

- Task Name: Automatically assigned, cannot be modified
- Choose a Worker (Required): Selected from dropdown (data comes from backend worker list)
- Container Size (Required): Manual input, displays warehouse dimensions if previously setup

### Appears after clicking Al Placement on the control panel, closes when Close is clicked

- The default state shows empty inputs, Assign button is grayed out and disabled
- Assign button becomes active and clickable when all required fields are completed
- After clicking Assign button, the popup closes and the item list on the right is cleared, indicating the task setup is complete

Add Item Popup



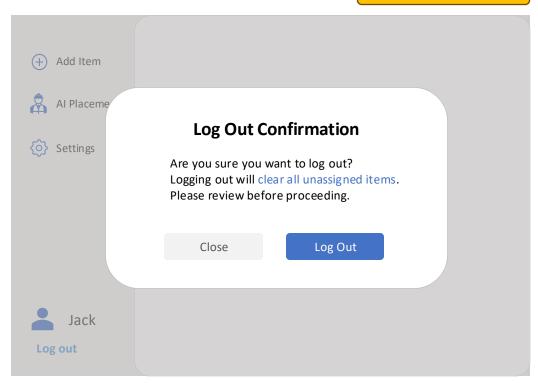
#### **Settings Popup**

User Status: Manager logged in

Form Description:

- Container Size (Required): Manual input, displays warehouse dimensions if previously setup **Interactions:**
- Appears after clicking Settings on the control panel, closes when Close is clicked
- The default state shows empty inputs, Confirm button is grayed out and disabled
- Confirm button becomes active and clickable when all required fields are completed
- After clicking Confirm button, the popup closes

Log out Confirm Popup



### **Logout Confirmation Popup**

**User Status**: Manager logged in Shows prompt message

#### Interactions:

- After clicking Log out, exits the Manager account and return to the homepage (login page);
   currently entered items (unassigned) are automatically cleared
- After clicking Close button, the popup is closed

# Manager Console Page – Interactions Diagram



## Worker Console Page

>>> Next Item

Worker01
Log out

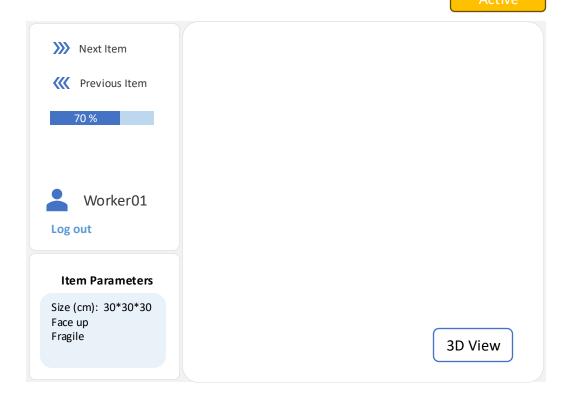
Click >>> Next Item
To Start A New Task

### **Default State of Worker Page**

User Status: Worker logged in

**Three sections:** operation panel on the upper left, current placement item info on the lower left, and placement view on the right. After user login, item info and view are empty, progress bar displays 0% **Interactions:** 

- Click Next Item: displays current item information, right view shows placement layer, default is 2D, click button to switch to 3D
- Click Previous Item: displays previous item information, if no previous item exists, no response upon clicking, toast prompts user that there is no previous item
- Click Log out: displays logout confirmation popup, after confirming returns to the home page



### **Active State of Worker Page**

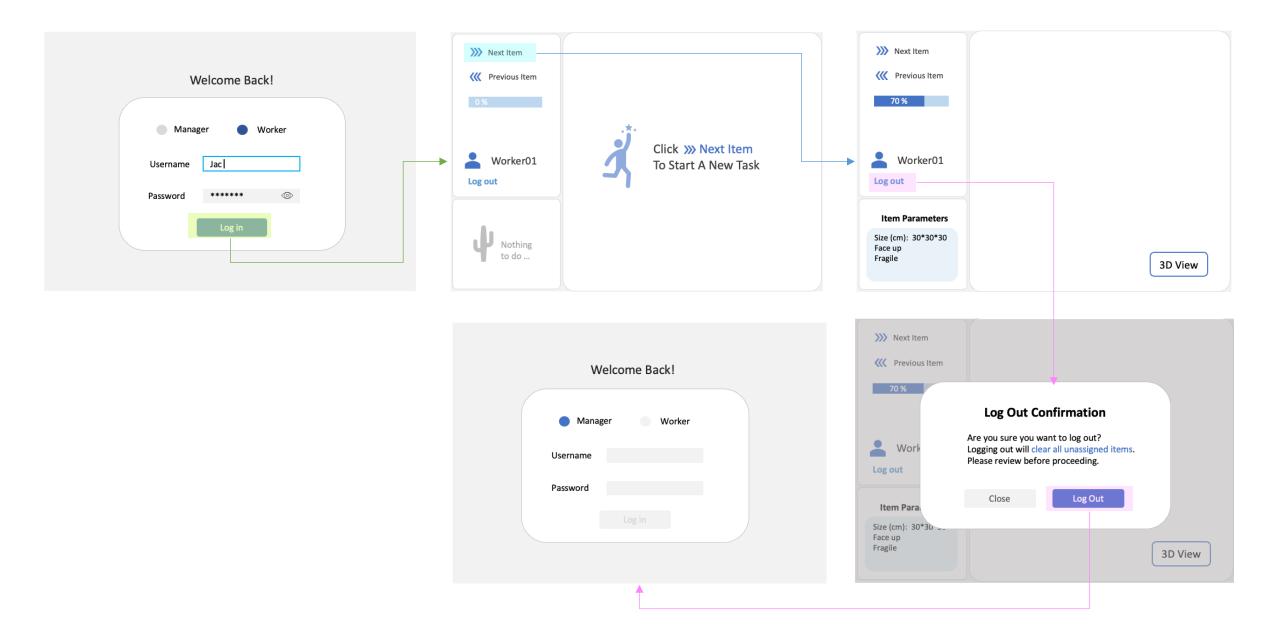
User Status: Manager logged in

The progress bar changes according to the completion status of the current task

If all tasks are completed and user clicks Next:

- item information returns to the default state
- toast prompts that task is completed
- progress bar resets to 0%
- The right placement view returns to the default state

# Worker Console Page – Interactions Diagram



# Initial demo

• Only for dividing requirements

### Page 1 home page

### Main feature:

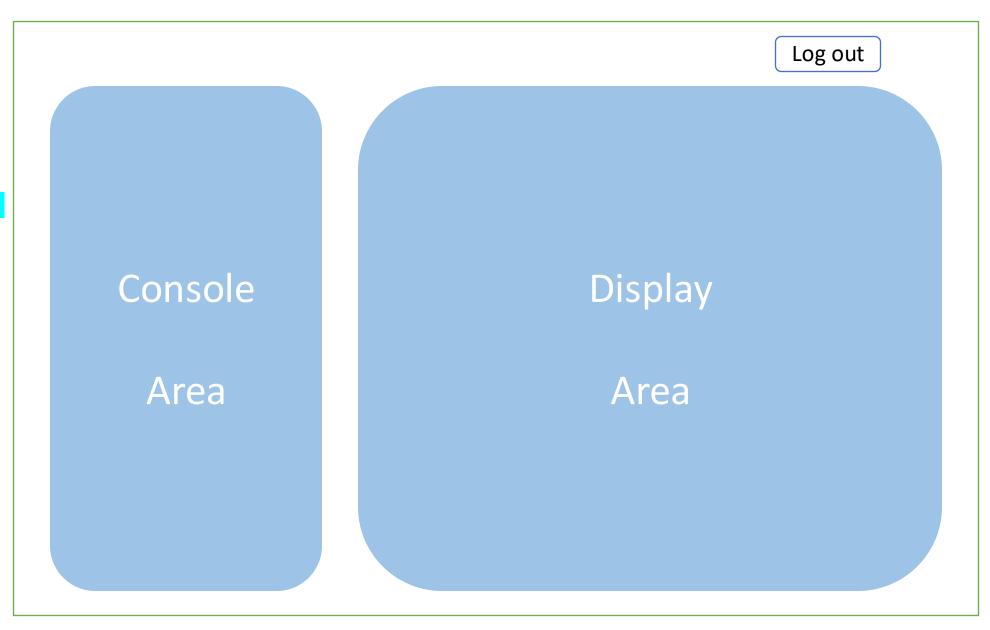
• Log in



Page 2 Manger Page

### Main feature:

- Console: add item, assign task, system setting
- Display: show the selected items, manage items (eg. delete, edit)
- Log out



Page 2 Manger Page

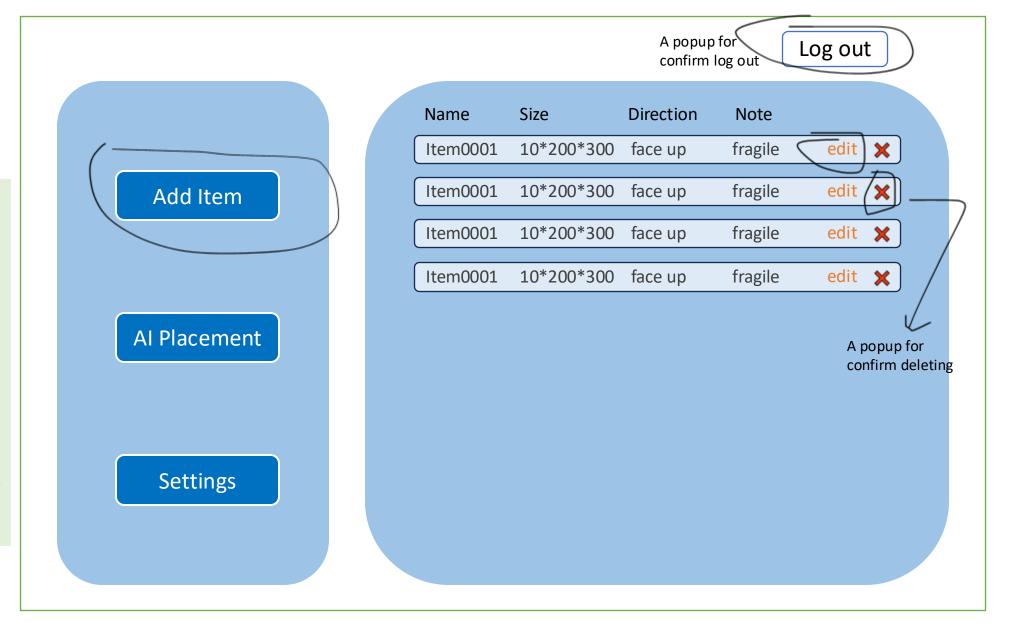
### Demo example

### Interactions:

Click Add/Edit: A popup window appears (create a new item or modify paras of an existing item)

Click AI Placement: A popup window appears (assign this task to a worker and submit it for AI placement)

Click Settings: A popup window appears (allowing you to configure system parameters)



Page 3 Worker Page

### Main feature:

- Console: next item, previous item
- Item: show the information of current item
- Current progress

Display: default shows the top view of current layer – 2D (click the button switch to 3D view)

Log out

