

# SHIPFAST PROPOSAL



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# EXECUTIVE SUMMARY

## CURRENT SYSTEM

The current system involves having customers email a spreadsheet to Ship Fast LLC, from those spreadsheets a packing slip is created using a merge program in Microsoft Word. The order is then picked up by a picker, a printing label is printed. The order is then boxed and the shipping label is attached. The spreadsheet is updated with the tracking number and emailed back to the customer.

## PLANNED CHANGES

The new system would completely remove the spreadsheet system and make everything completely automated. A customer will have their very own dashboard where they can access their orders and see its status. This is done by connecting their Shopify API. When an order is received on our end a shipping label and packing slip is automatically created with the data stored in the database and printed. From here a picker will get the order and pack it. The order will then be shipped off to its destination.

## VALUE IN CHANGE

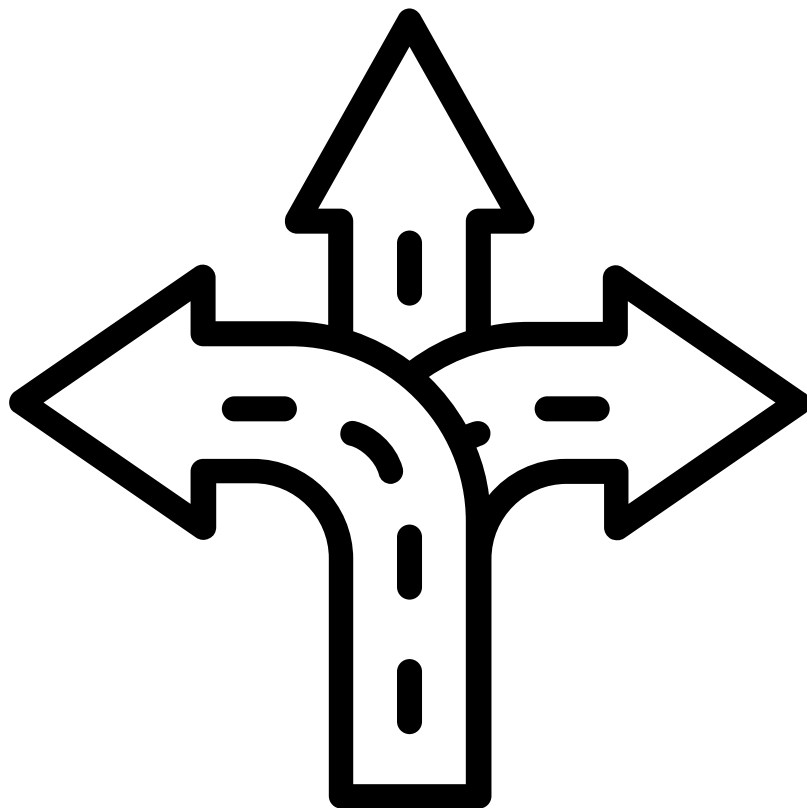
We believe that switching to this system will save you both time and money. Here are some of the expected changes in quantitative form:

- Increase in sales +\$100,000 a year
- Save average of 30 minutes of processing time per order
- Turnaround for customers will be 3x faster

With each of changes comes the proposed price range: \$30,000 - \$40,000

These prices will reflect there complexity of the system that is decided. With a system like this, the value far outweighs the price.

# **SYSTEMS ALTERNATIVES**



# **SYSTEM ALTERNATIVE 1:**

## **Automate Spreadsheets and Packing**

Unlike the fully automated system as previously described, this system will only feature automated spreadsheets and packing slips.

Spreadsheets will be automatically created and updated in response to client orders.

Packing slips will be printed using an automated printer and placed with the order by a picker.

The implementation of this system will be a cheaper alternative to a fully automated system. This system will cost \$15,000 to implement

## **SYSTEM ALTERNATIVE 2:**

### **Automate Spreadsheets**

This system features only automated spreadsheets, the change that will make the biggest impact to the entire process

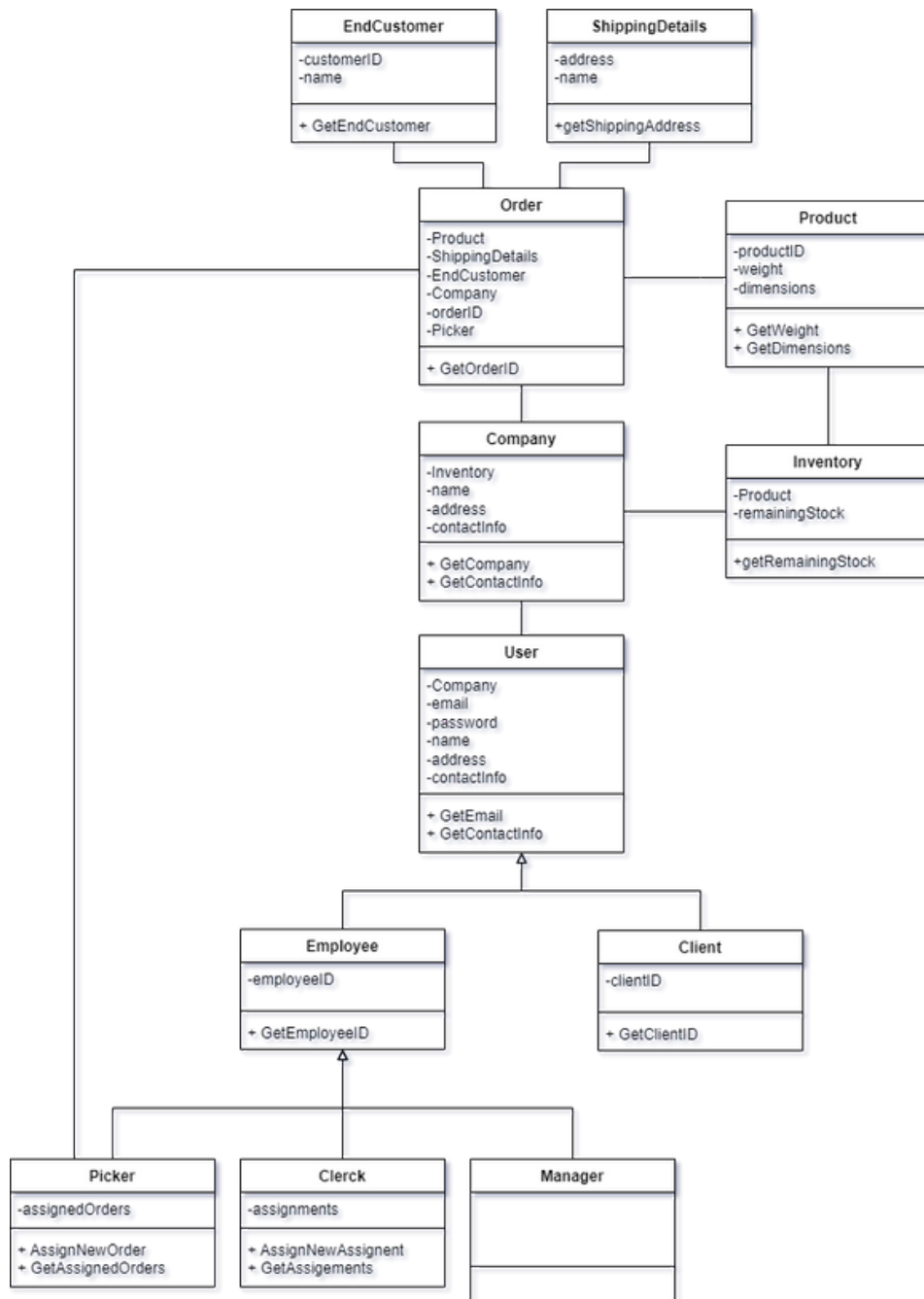
Spreadsheets will be automatically created and updated in response to client orders.

By simply automating spreadsheets the efficiency of shipfast will increase 150%

This system will cost \$5,000 to implement

# Appendicies

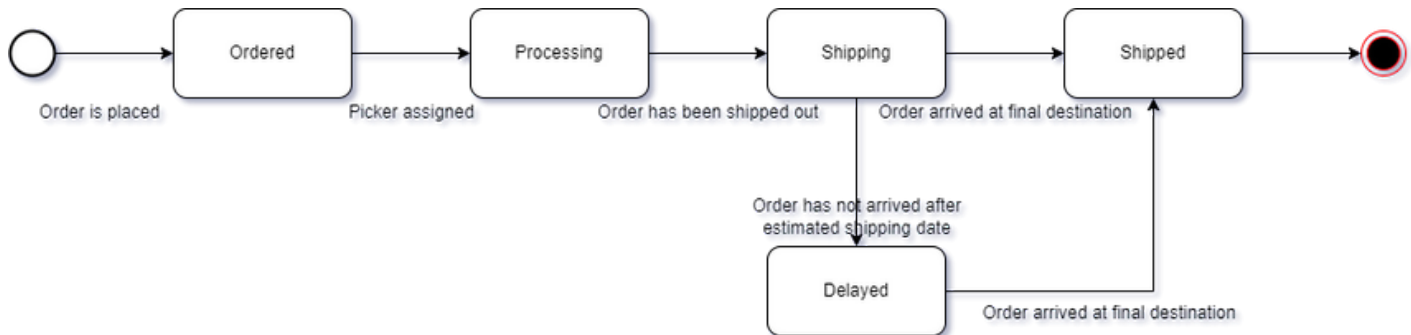
# CLASS DIAGRAM



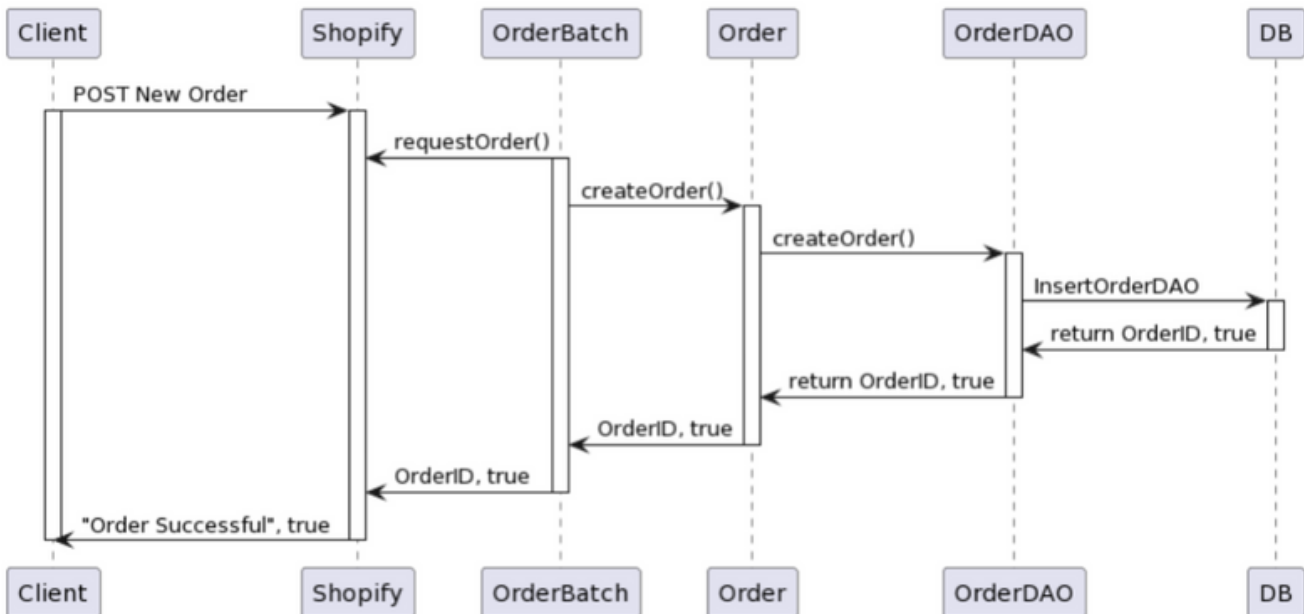


# BEHAVIORAL MODELS

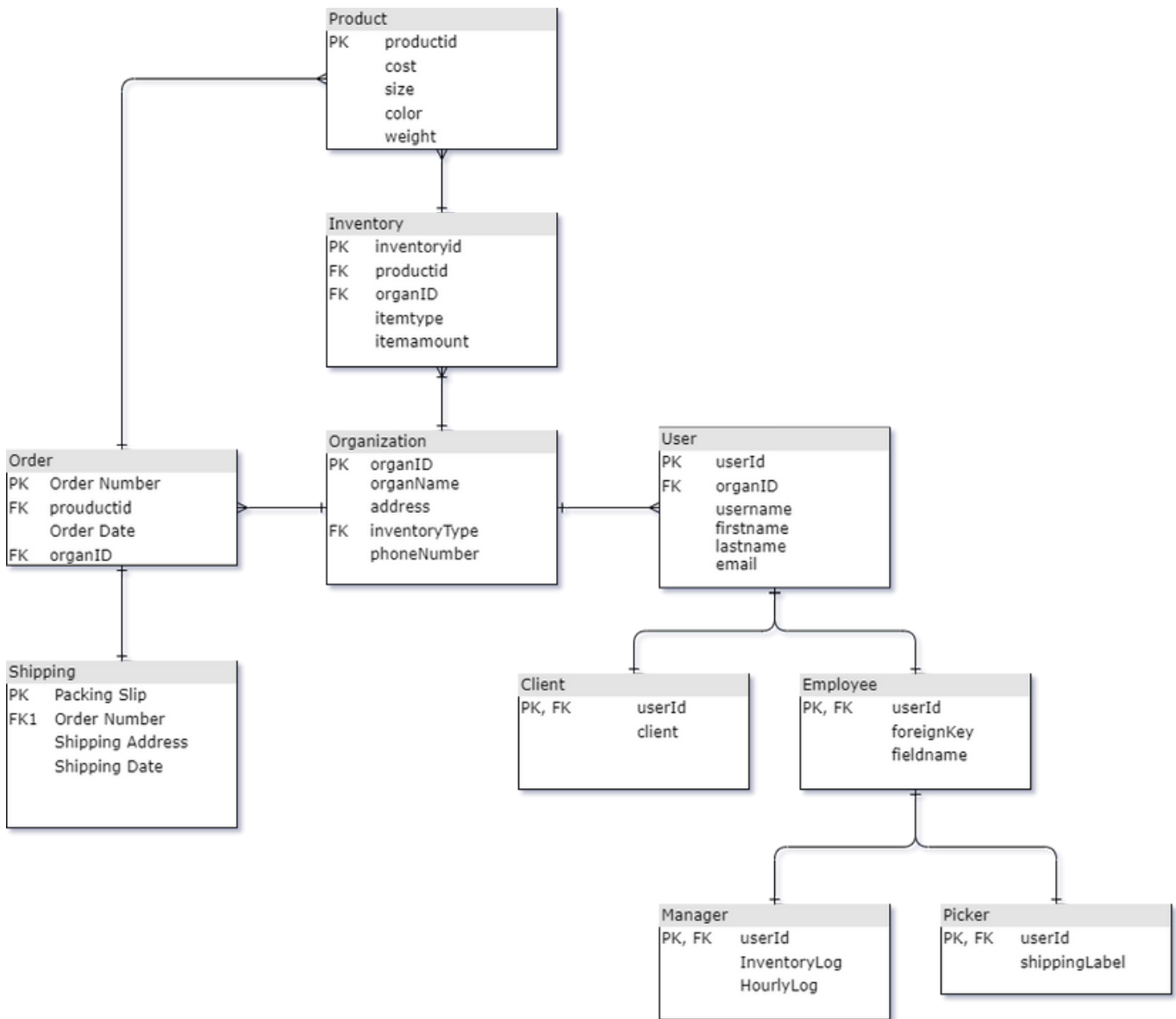
## State Machine Diagram



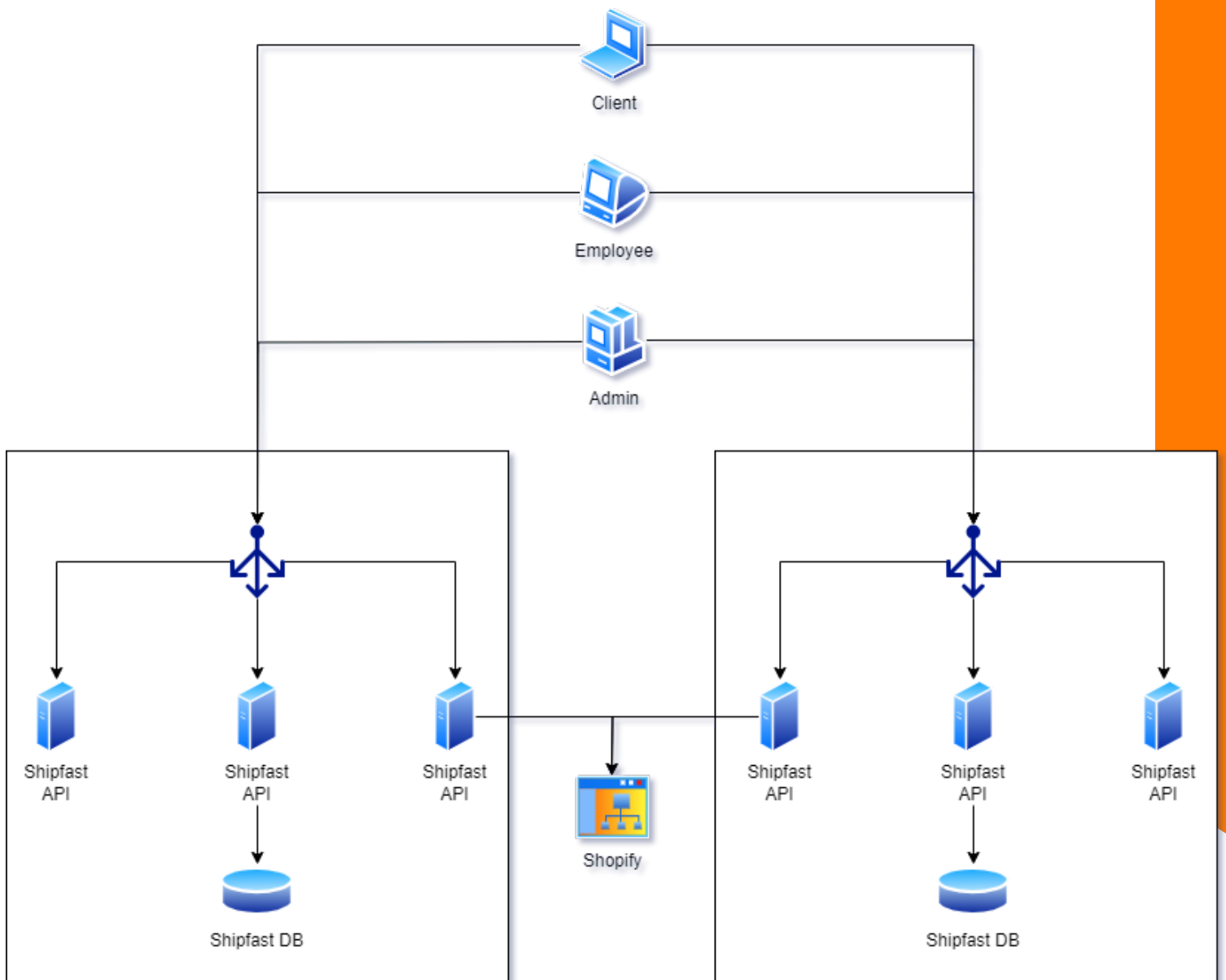
## Sequence Diagram



# DATABASE TABLE

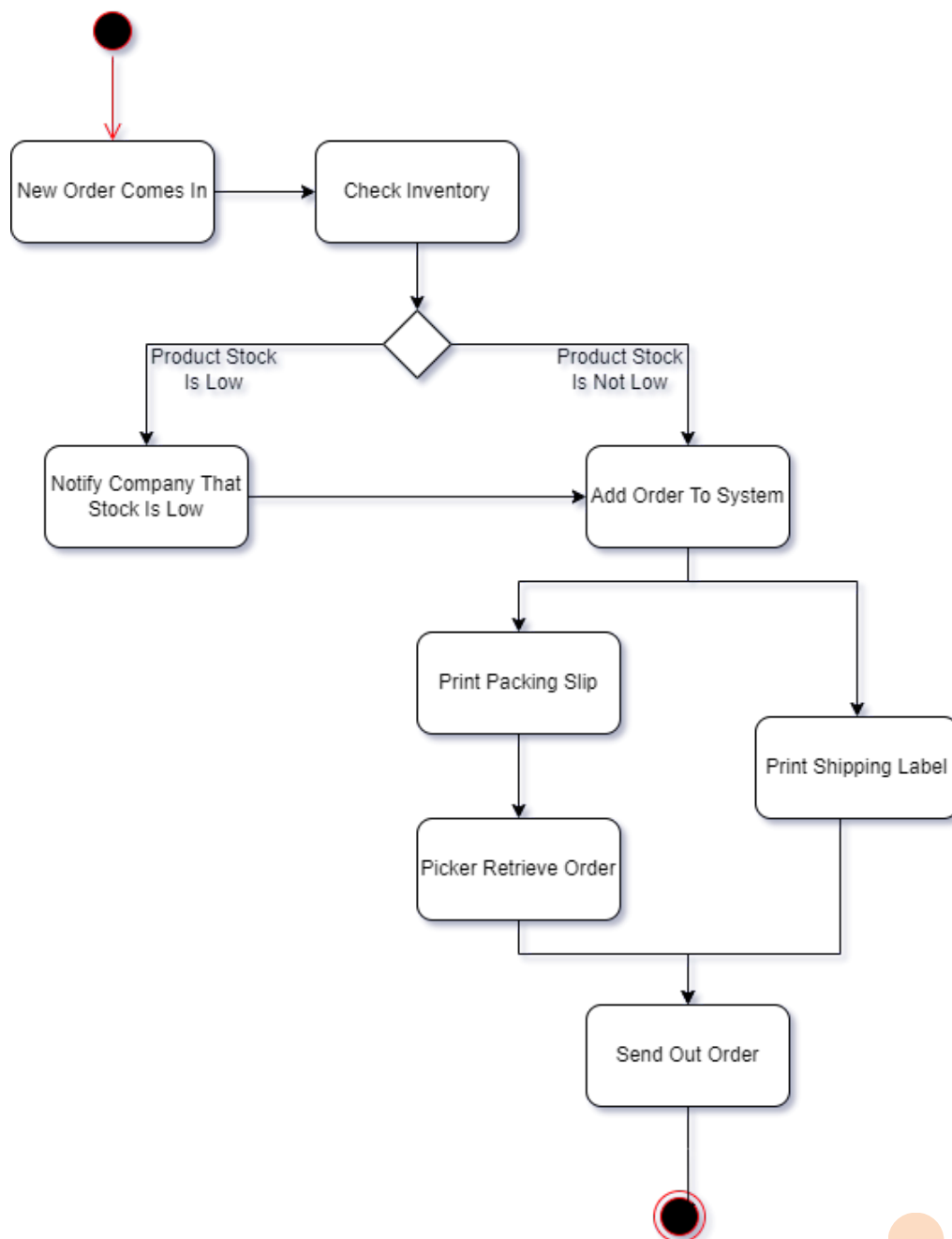


# DEPLOYMENT DIAGRAM

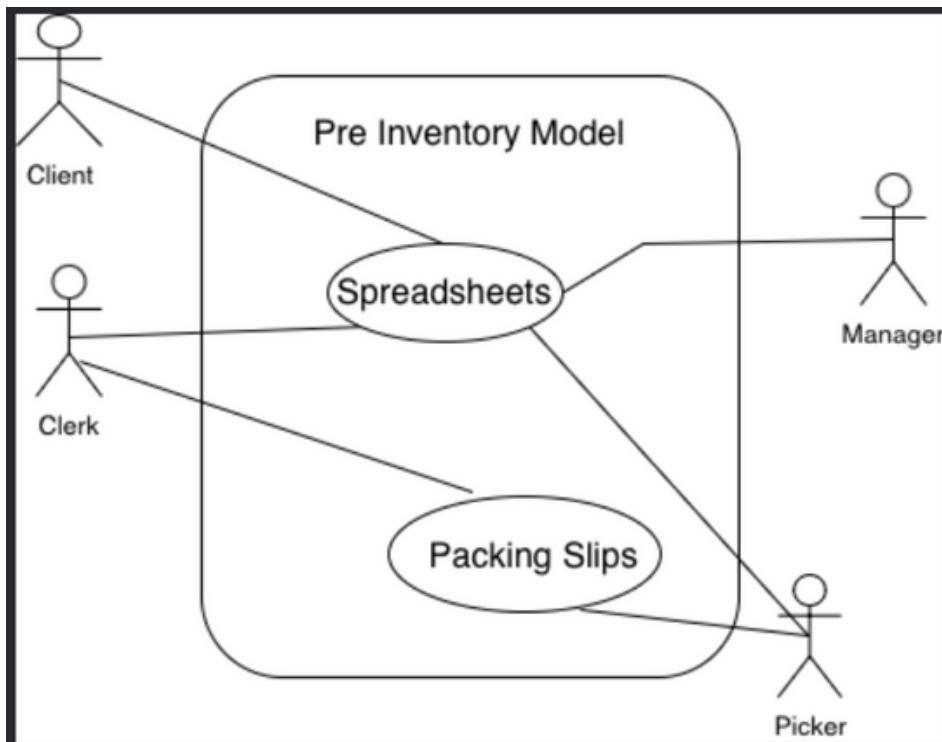
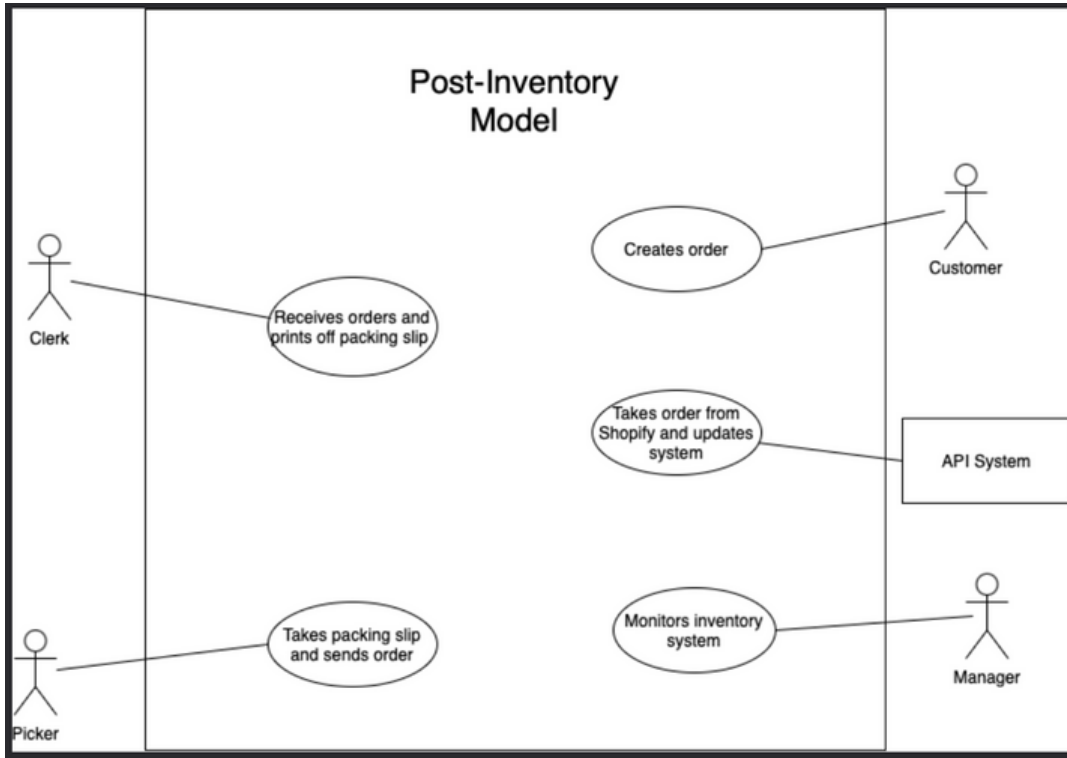


# FUNCTIONAL MODELS

## Order Activity Diagram



# FUNCTIONAL MODELS



# JIRA STORIES

**[G2S2024-1] Login Page Created: 05/Feb/24 Updated: 05/Feb/24**

**Status: To Do**  
**Project: GROUP-2-S2024**

**Component/s: None**  
**Affects Version/s: None**  
**Fix Version/s: None**

**Type: Story Priority: High**  
**Reporter: Sydney**  
**Assignee: Unassigned**  
**Resolution: Unresolved Votes: 0**  
**Labels: None**  
**Remaining Estimate: Not Specified**  
**Time Spent: Not Specified**  
**Original Estimate: Not Specified**

## **Description**

**As a client I want to login to my account to see shipping details.**

## **Acceptance criteria:**

**username field**  
**password**  
**homepage**  
**login button**  
**sign up button**  
**forgot password**  
**forgot username**  
**captcha**  
**load in less than one second**  
**username as email**

# JIRA STORIES

**[G2S2024-14] Item Organization Created: 28/Feb/24 Updated: 28/Feb/24**

**Status: To Do  
Project: GROUP-2-S2024**

**Component/s: None  
Affects Version/s: None  
Fix Version/s: None**

**Type: Story Priority: Medium  
Reporter: Rin Houghton  
Assignee: Unassigned  
Resolution: Unresolved Votes: 0  
Labels: None  
Remaining Estimate: Not Specified  
Time Spent: Not Specified  
Original Estimate: Not Specified**

## **Description**

**As a picker, I need to have the items that I am picking organized in the order that I will compile them. This will optimize my time in the Warehouse.**

### **Acceptance Criteria:**

- 1) The items are organized by a bay area to maximize efficiency**
- 2) It is clear where each item is located by the item description**
- 3) The items are listed in the order that will allow them to be collected the most efficiently**

# JIRA STORIES

**[G2S2024-15] Client Account Information Page Created: 28/Feb/24  
Updated: 28/Feb/24**

**Status: To Do  
Project: GROUP-2-S2024**

**Component/s: None  
Affects Version/s: None  
Fix Version/s: None**

**Type: Story Priority: Medium  
Reporter: Sydney  
Assignee: Unassigned  
Resolution: Unresolved Votes: 0  
Labels: None  
Remaining Estimate: Not Specified  
Time Spent: Not Specified  
Original Estimate: Not Specified**

## **Description**

**As a client, I need to be able to see my account information such as: order costs, account balance, current order status, expected arrival date, and order item and quantity.**

### **Acceptance Criteria:**

- 1. Order costs**
- 2. Account balance**
- 3. Order status**
- 4. Expected arrival date**
- 5. Order item**
- 6. Order quantity**
- 7. Automatic updates**
- 8. Change password**
- 9. Page loads in less than one second**



# JIRA STORIES

**[G2S2024-13] System Information(Manager) Created:  
28/Feb/24 Updated: 28/Feb/24**

**Status: To Do  
Project: GROUP-2-S2024**

**Component/s: None  
Affects Version/s: None  
Fix Version/s: None**

**Type: Story Priority: Medium  
Reporter: Drake  
Assignee: Unassigned  
Resolution: Unresolved Votes: 0  
Labels: None  
Remaining Estimate: Not Specified  
Time Spent: Not Specified  
Original Estimate: Not Specified**

## **Description**

**As a manager I need a page where I can look at the information of our system for keeping track of current orders and employees so I can be on a real time knowing basis.**

## **Acceptance Criteria**

- 1- Employee data**
- 2- Customers and their data**
- 3- Current active orders**
- 4- Manager is the only one who has access**

# JIRA STORIES

**[G2S2024-2] Integration Created: 05/Feb/24 Updated: 28/Feb/24**

**Status: To Do  
Project: GROUP-2-S2024**

**Component/s: None  
Affects Version/s: None  
Fix Version/s: None**

**Type: Story Priority: Medium  
Reporter: Ford Draper  
Assignee: Unassigned  
Resolution: Unresolved Votes: 0  
Labels: None  
Remaining Estimate: Not Specified  
Time Spent: Not Specified  
Original Estimate: Not Specified**

## **Description**

**As a user I need to be able to connect my site to the customers ecommerce API on their site so that their order details go directly from them to me so that same day shipping can be achieved.**

## **Acceptance Requirements**

- 1) The Order Information is transferred from the API to the database**
- 2) The Order Information is transferred without error**
- 3) The Order Information is transferred at least every hour.**

# JIRA STORIES

**[G2S2024-6] Shipping Analytics Page Created: 05/Feb/24 Updated: 28/Feb/24**

**Status: To Do  
Project: GROUP-2-S2024**

**Component/s: None  
Affects Version/s: None  
Fix Version/s: None**

**Type: Story Priority: Medium  
Reporter: Drake  
Assignee: Unassigned  
Resolution: Unresolved Votes: 0  
Labels: None  
Remaining Estimate: Not Specified  
Time Spent: Not Specified  
Original Estimate: Not Specified**

## **Description**

**As the owner, I need to be able to see what is shipped most commonly by the retailers and the average shipping time. This will help us to work more efficiently in the warehouse.**

## **Acceptance Requirements:**

- Section with most ordered item per Retailer**
- Average shipping length sorted by item**
- Average shipping length sorted by destination state**

# JIRA STORIES

**[G2S2024-4] Order Database Created: 05/Feb/24 Updated: 05/Feb/24**

**Status: To Do  
Project: GROUP-2-S2024**

**Component/s: None  
Affects Version/s: None  
Fix Version/s: None**

**Type: Story Priority: Medium  
Reporter: Pierce  
Assignee: Unassigned  
Resolution: Unresolved Votes: 0  
Labels: None  
Remaining Estimate: Not Specified  
Time Spent: Not Specified  
Original Estimate: Not Specified**

## **Description**

**As a shipping company, I need to have all pending orders in a database.**

**I need all the order details and date.**

**I need it to be able to sort and ship out the orders we receive.**

### **Acceptance Criteria:**

- Information necessary for each order**
  - Needs to be secure**
- Needs to be accessible through our API and take in the data from our Batch Process (linked to our customer's Shopify)**
  - Needs to be fast enough when accessing**

# JIRA STORIES

**[G2S2024-3] Inventory Page Created: 05/Feb/24 Updated: 05/Feb/24**

**Status: To Do  
Project: GROUP-2-S2024**

**Component/s: None  
Affects Version/s: None  
Fix Version/s: None**

**Type: Story Priority: Medium  
Reporter: Sydney  
Assignee: Unassigned  
Resolution: Unresolved Votes: 0  
Labels: None  
Remaining Estimate: Not Specified  
Time Spent: Not Specified  
Original Estimate: Not Specified**

## **Description**

**As a manager, I need a page in the website that will display inventory for both individual clients and overall.**

## **Acceptance criteria:**

**Displays inventory for each client  
Displays inventory overall  
Automatically tracks inventory with each purchase  
Backs up inventory data to database  
See individual orders from clients**

# **JIRA STORIES**

**[G2S2024-12] Package Slip Created: 05/Feb/24  
Updated: 05/Feb/24**

**Status: To Do  
Project: GROUP-2-S2024**

**Component/s: None  
Affects Version/s: None  
Fix Version/s: None**

**Type: Story Priority: Medium  
Reporter: Sydney  
Assignee: Unassigned  
Resolution: Unresolved Votes: 0  
Labels: None  
Remaining Estimate: Not Specified  
Time Spent: Not Specified  
Original Estimate: Not Specified**

## **Description**

**As a picker, I need a package slip to be created that will allow me to know what items I need to pickup.**

## **Acceptance Requirements:**

**Print a package slip  
Package slip has each item and item area  
Automatically printed when order info is gained**

# JIRA STORIES

**[G2S2024-11] Database Backup Created: 05/Feb/24 Updated: 05/Feb/24**

**Status: To Do  
Project: GROUP-2-S2024**

**Component/s: None  
Affects Version/s: None  
Fix Version/s: None**

**Type: Story Priority: Medium  
Reporter: Pierce  
Assignee: Unassigned  
Resolution: Unresolved Votes: 0  
Labels: None  
Remaining Estimate: Not Specified  
Time Spent: Not Specified  
Original Estimate: Not Specified**

## **Description**

**As a shipping company we need a backup of my database.  
I need to be able to restore data in case of outages.  
This is required so that order data is not lost.**

## **Acceptance Criteria:**

- Data must be backed up for at least three days (assuming orders are shipped same-day)**
- Database restore tested semi-annually**

# JIRA STORIES

**[G2S2024-10] Inventory Security Created: 05/Feb/24 Updated: 05/Feb/24**

**Status: To Do  
Project: GROUP-2-S2024**

**Component/s: None  
Affects Version/s: None  
Fix Version/s: None**

**Type: Story Priority: Medium  
Reporter: Ford Draper  
Assignee: Unassigned  
Resolution: Unresolved Votes: 0  
Labels: None  
Remaining Estimate: Not Specified  
Time Spent: Not Specified  
Original Estimate: Not Specified**

## **Description**

**As the company owner I would like to have better security for my inventory.  
I would not like clerks to be able to edit details for the inventory and like it to be done automatically.**

## **Acceptance Criteria:**

**Owner Admin Priviledges.  
Boolean value for an order. [EmployeeID] picked up this order and shipped it.  
Change [OrderID] to shipped when shipped and update status in database.**



# JIRA STORIES

**[G2S2024-9] Employee Tracking Created: 05/Feb/24  
Updated: 05/Feb/24**

**Status: To Do  
Project: GROUP-2-S2024**

**Component/s: None  
Affects Version/s: None  
Fix Version/s: None**

**Type: Story Priority: Medium  
Reporter: Drake  
Assignee: Unassigned  
Resolution: Unresolved Votes: 0  
Labels: None  
Remaining Estimate: Not Specified  
Time Spent: Not Specified  
Original Estimate: Not Specified**

## **Description**

**As a manager**

**I need to develop a system that keeps track of the work that my employees complete so I can better monitor my company.**

## **Acceptance Criteria**

- 1. Store this information in a database**
- 2. Associate each employees processes with an employee id**
- 3. A measuring system for employee work completed**

# **JIRA STORIES**

**[G2S2024-8] Automatic Inventory Updating Created:  
05/Feb/24 Updated: 05/Feb/24**

**Status: To Do  
Project: GROUP-2-S2024**

**Component/s: None  
Affects Version/s: None  
Fix Version/s: None**

**Type: Story Priority: Medium  
Reporter: Sydney  
Assignee: Unassigned  
Resolution: Unresolved Votes: 0  
Labels: None  
Remaining Estimate: Not Specified  
Time Spent: Not Specified  
Original Estimate: Not Specified**

## **Description**

**As a manager, I need the inventory to be automatically updated whenever I get an order so I can track my inventory.**

## **Acceptance Criteria**

**Updates inventory when an item is marked by picker  
Alert Manager when inventory is low  
Track price of inventory  
Translate this information to the inventory page.**

# **JIRA STORIES**

**[G2S2024-7] Shipping Integration Created: 05/Feb/24  
Updated: 05/Feb/24**

**Status: To Do  
Project: GROUP-2-S2024**

**Component/s: None  
Affects Version/s: None  
Fix Version/s: None**

**Type: Story Priority: Medium  
Reporter: Ford Draper  
Assignee: Unassigned  
Resolution: Unresolved Votes: 0  
Labels: None  
Remaining Estimate: Not Specified  
Time Spent: Not Specified  
Original Estimate: Not Specified**

## **Description**

**As the user I want to be able to ship through other means besides just UPS and be able to print the labels for it in house. This would be done by getting the details for shipping from the API and feeding that into an API from shipstation and printing the shipping label based on that.**

## **Acceptance Criteria:**

**Automatic feeding of shipping data to our API  
Feeding of data from the API to Shipstation  
Feed the data from Shipstation to our special printer that can print shipping labels.**

# **JIRA STORIES**

**[G2S2024-5] Order Tracking Page Created: 05/Feb/24  
Updated: 05/Feb/24**

**Status: To Do  
Project: GROUP-2-S2024**

**Component/s: None  
Affects Version/s: None  
Fix Version/s: None**

**Type: Story Priority: Medium  
Reporter: Sydney  
Assignee: Unassigned  
Resolution: Unresolved Votes: 0  
Labels: None  
Remaining Estimate: Not Specified  
Time Spent: Not Specified  
Original Estimate: Not Specified**

## **Description**

**As a client, I need a page that will show me the order information for my orders so that I can relay that information to my clients without waiting for a spreadsheet.**

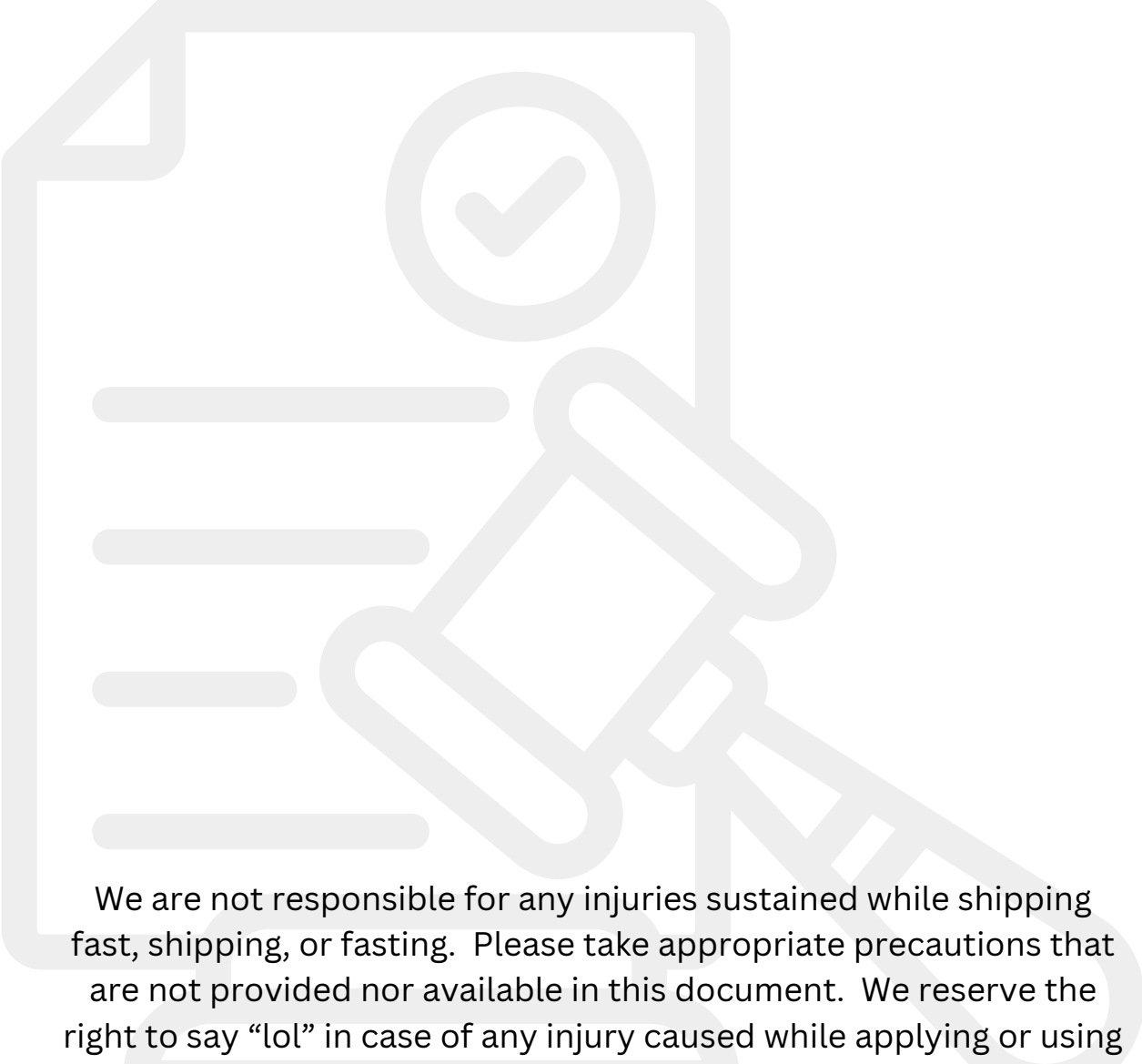
## **Acceptance requirements:**

**Automated  
Instant relay between shipping info and page  
Order stage available**

# WIREFRAMES



# LEGAL



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