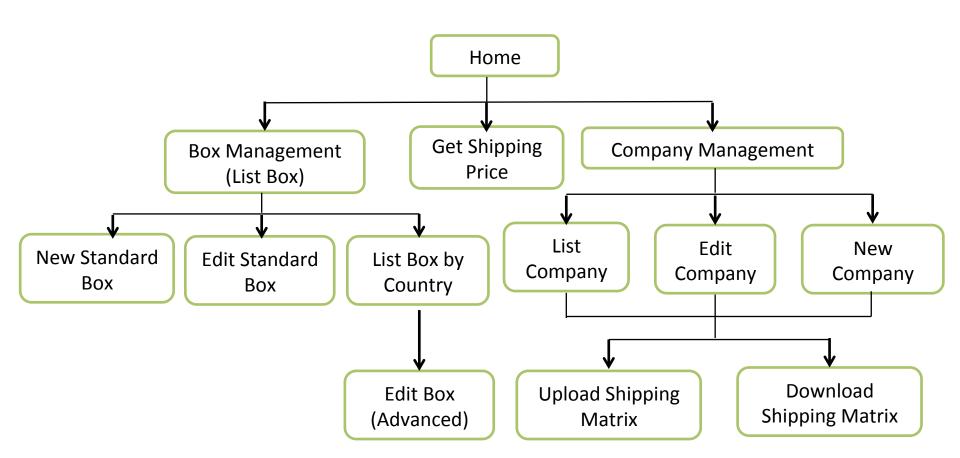
# Shipping Matrix Calculator Interaction Design

Pamono is an e-commerce website selling furniture and decor from offline boutiques in Europe. Internally, for different product, because of different product sizes, product weight, shipping box used, shipping origin and destination, shipping companies with the lowest shipping price was chose to ship the product. This Shipping Matrix Calculator is meant to be used to automatize the process of shipping price calculation and the choice of best shipping company for different products.

For shipping price calculation the most important information is the price of box and the shipping price of different shipping company. Because the user want to manage all the information online, here comes the most complicated part of interaction design: company management and box management.

In this document, we show how the box information and company information are managed in this system.

## Site Map



### **Terms**

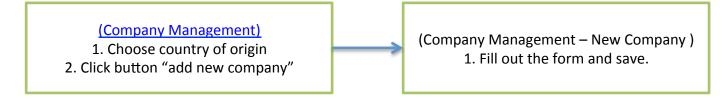
- Box type: Different types of box.
  - Example: Box 1, Box 2, ...
- Company: Company here means shipping company.
- Country of origin: The country where the product is shipped from.
- Country of destination: The country where the product is shipped to.
- Box price: The price of the box itself.
- Shipping price: The price to ship the product from country of origin to country of destination.
- Shipping matrix: Shipping matrix is a 2 dimensional table that records the shipping price for each box type and country of destination pair. A company may have different shipping matrix for different country of origin. But for one country of origin, one company only has one shipping matrix for that origin.

_	Example:		Country 1	Country 2	Coutry 3	Country 4
		Box 1	21.51	21.51	21.51	12.76
		Box 2	21.51	21.51	21.51	12.76
		Box 3	21.51	21.51	21.51	12. 76

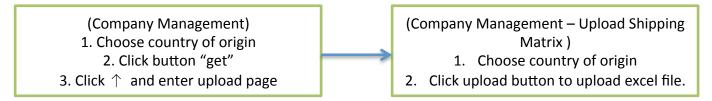
### **Scenarios**

The user start the tool the first time. There is no data in the tool yet. The user has a product excel file at hand, and would like to let the system calculate the cheapest shipping price and the shipping company to choose for each product in the file. The following are the steps the user should go through.

#### 1. Add new company

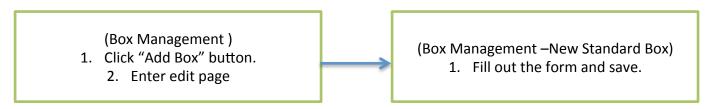


### 2. Upload shipping martix



In this way, add and configure all the companies.

#### 3. Add new box type



## Scenarios (cont.)

4. Configure box state and price under different country of origin.

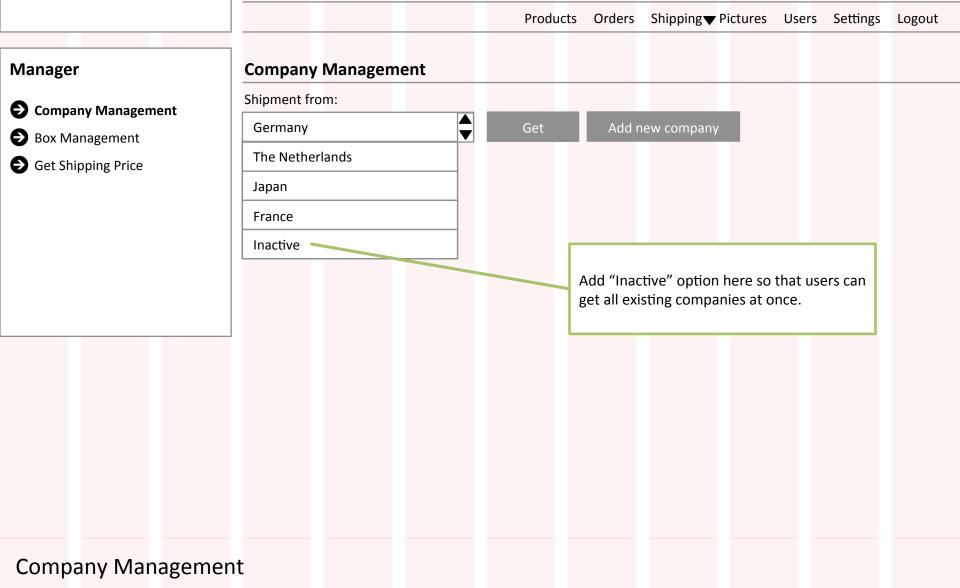


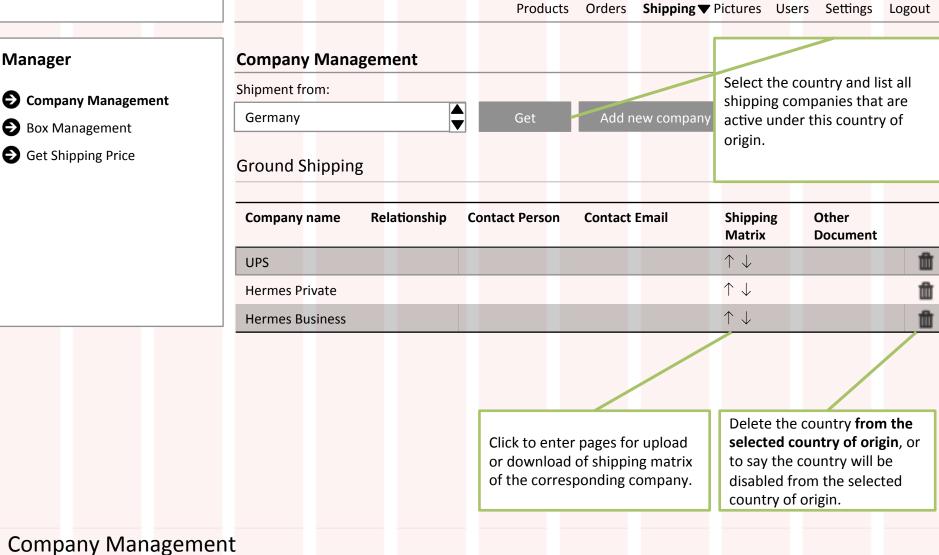
In this way, add and configure all the boxes.

5. Get shipping price of products.

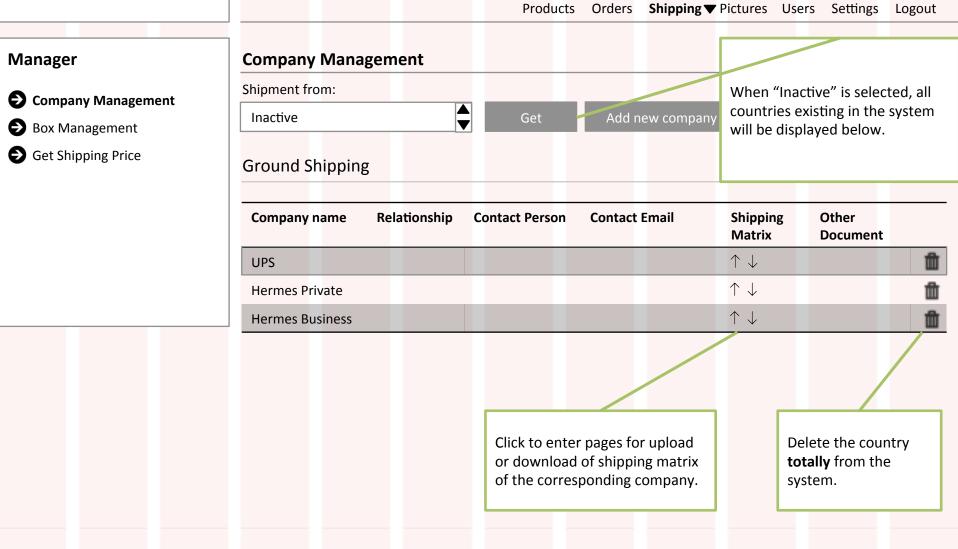
(Get Shipping Price)

1. Click button "Upload", select and upload the product excel with required format.

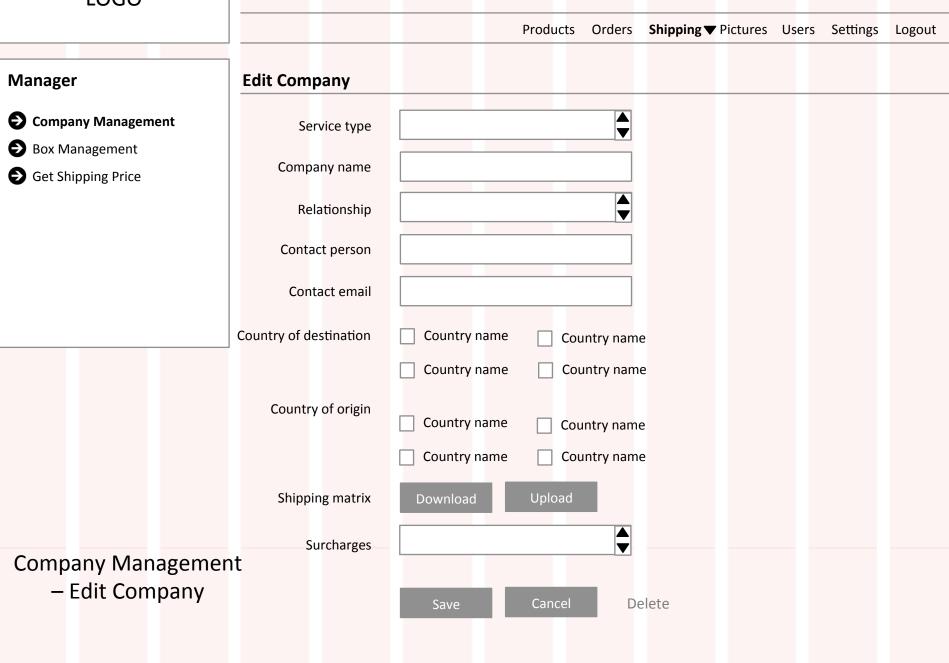




List Company (by origin)



Company ManagementList Company (all)



		Products Orders <b>Shipping</b> ▼ Pictures Users Settings Logout
Manager	New Company	
Company Management     Box Management	Service type	
Get Shipping Price	Company name	
	Relationship	
	Contact person	
	Contact email	
	Country of destination	Country name Country name
		Country name Country name
	Country of origin	Country name Country name
		Country name Country name
	Shipping matrix	Download Upload
	Surcharges	
Company Managemer	nt	
<ul><li>New Company</li></ul>		Save Cancel

Manager **Upload Shipping Matrix** Company Management Shipment from Germany **Box Management** Shipment from **Get Shipping Price** Upload File Because each company may be active in several country of origin and thus need to upload several different shipping matrix for those origins, a separate page is designed for this purpose. **Company Management**  Upload Shipping Matrix

Products Orders

**Shipping** ▼ Pictures Users Settings

Logout

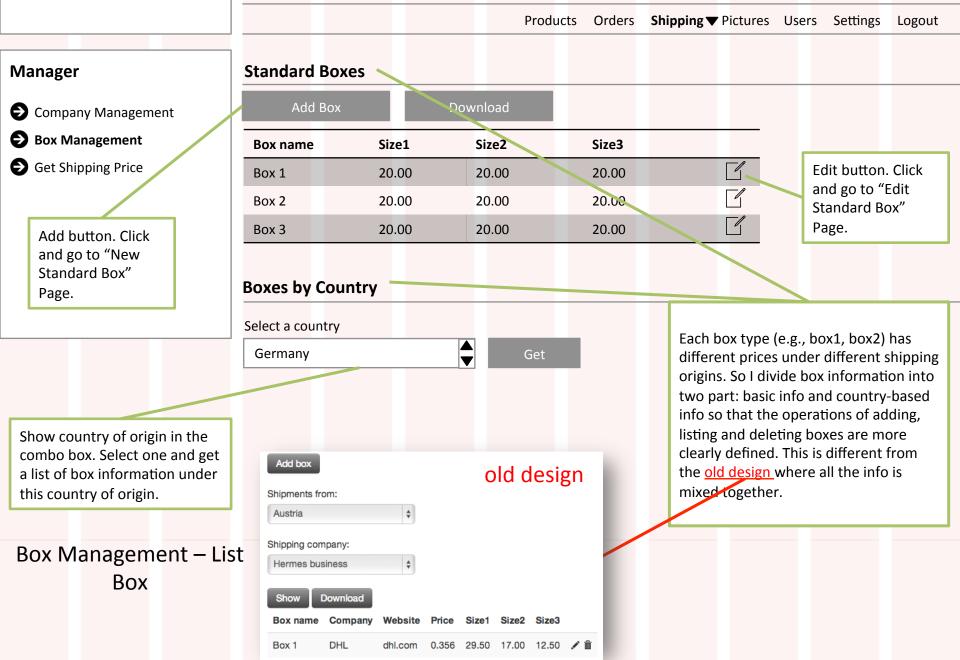
Manager **Download Shipping Matrix** Company Management Shipment from Germany Box Management Shipment from **Get Shipping Price** Download File Because each company may be active in several country of origin and thus need to dowload several different shipping matrix of those origins, a separate page is designed for this purpose. **Company Management** - Download Shipping Matrix

Products Orders

**Shipping** ▼ Pictures Users Settings

Logout





				Products	Orders	<b>Shipping</b> ▼ Pictures	Users	Settings	Logout
Manager	Edit Standa	ard Bo	x						
Company Management	Box na	ame							
Box Management		l							
Get Shipping Price	S	ize1							
	S	ize2							
	S	ize3							
			Save	Cancel					
		ا	Delete from the	system		Click to delet			
Box Management –									

Products Orders Shipping ▼ Pictures Users Settings Logout

### Manager

- Company Management
- **Box Management**
- Get Shipping Price

#### [Country Name]

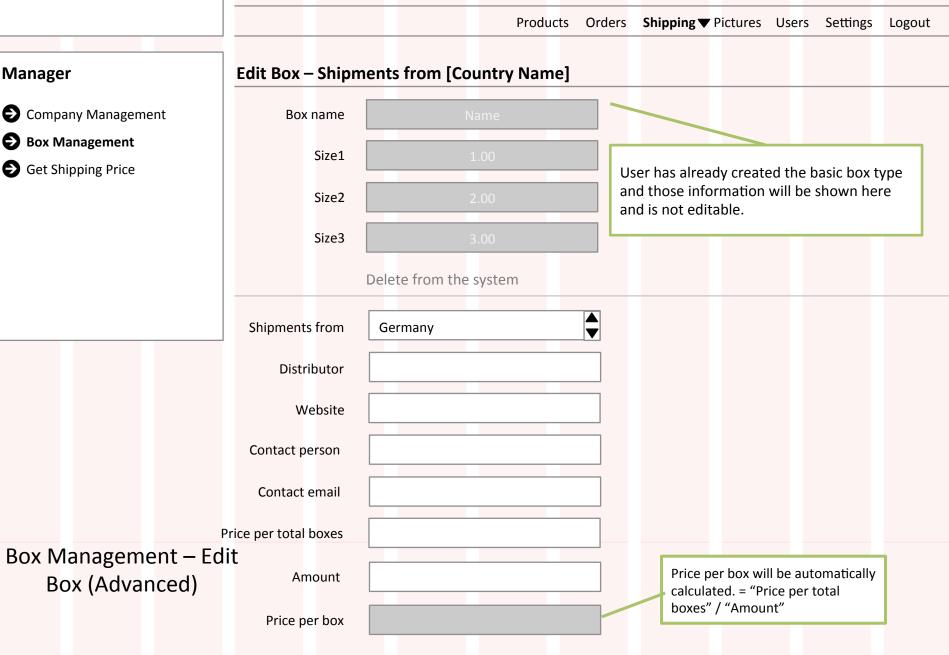
Box Name	Size1	Size2	Size3	Active Distributor Website Box Price
Box 1				Yes
Box 2				No
Box 3				No

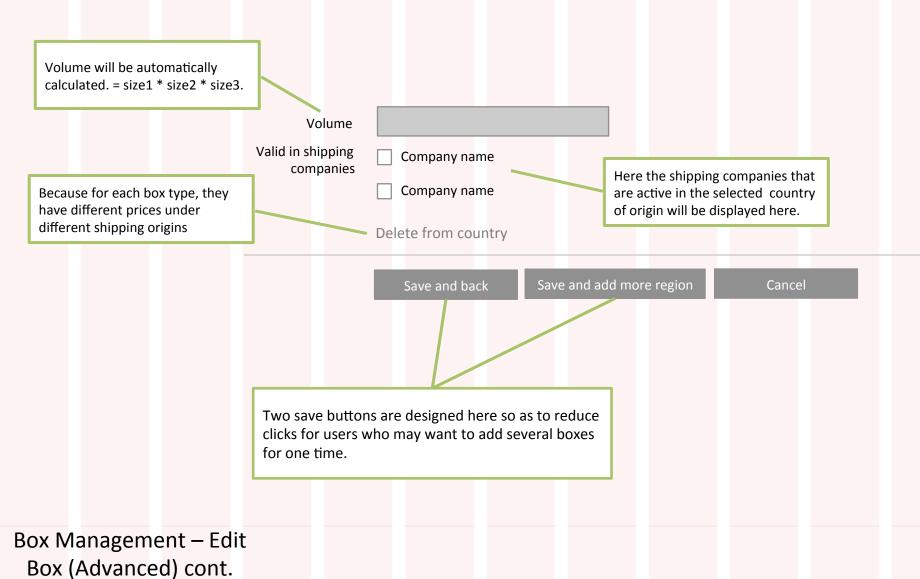
Display all available box types in the system in this table. Click each row to enter edit page to disable or enable the box type for the selected country of origin.

Shows whether or not the box type is active in the current country or origin.

Company Management

Box by Country





Products Orders **Shipping** ▼ Pictures Users Settings Logout **Get Shipping Price** Manager Upload product information and get caculated shipping price Company Management Box Management Get Shipping Price After uploading all necessary box information and company information, the user can upload a product excel file and the system will process it at backend and return a result file with calculated shipping price for each product. **Get Shipping Price**