





PROJECT DOCUMENTATION

System Integration and Architecture





GROUP 7

Leader:

Nicko Geronaga

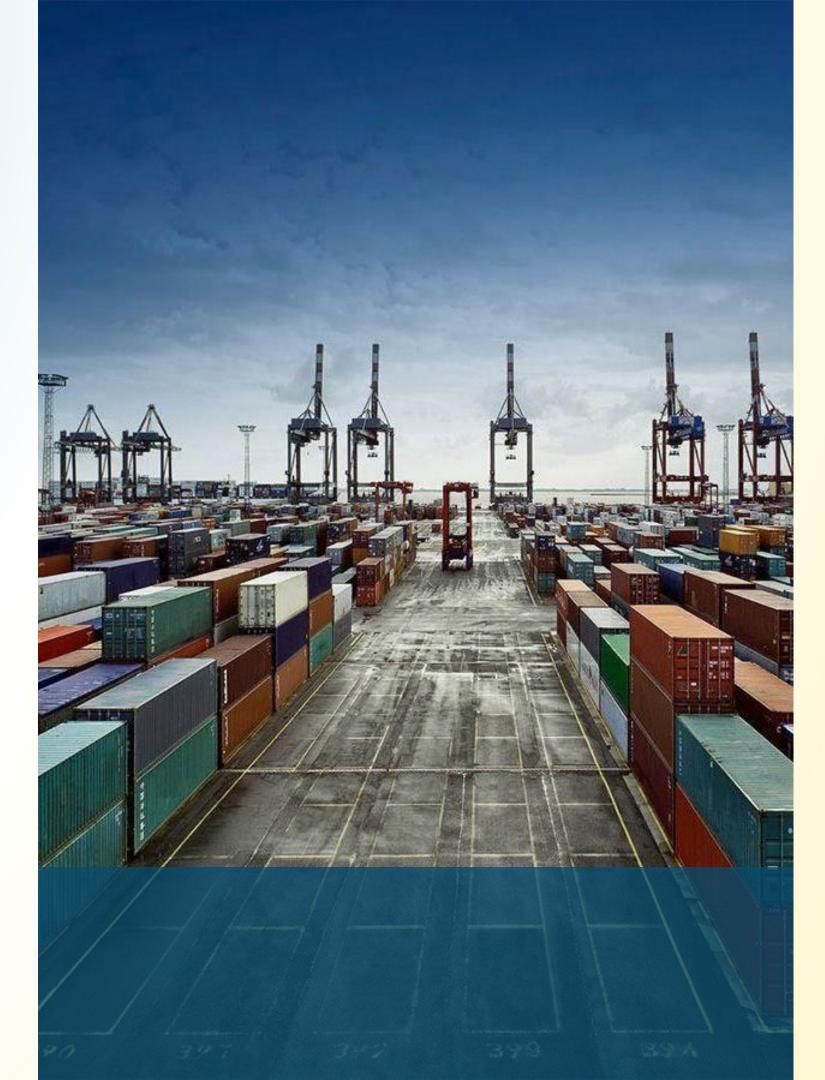
Members:

- Raymond Cunanan
- Lorrea Ann Hugo
- John Mari Dinglasan
- Keneth Odgien



(3) ROLLS LOGISTICS

- Roll Logistics is an online platform that involves transportation services, shipping companies, and logistics providers that move any kind of item around the world.
- This platform can be very helpful to group of people such as businessmen, people who work in shipping and logistic companies.









OBJECTIVES



- The objective of this project is to create an accessible website for transporting and shipping any kind of items around the world.
- This online platform helps people around the world to ship their items into their desired locations.
- Moreover, this website can significantly benefit businesses to import and export their products in various countries. Therefore, transporting goods and products can contribute to the economic growth of a country.







USE CASE DOCUMENTATION

System Integration and Architecture





USE CASE 1: SIGN-UP

Actor

User

Use Case Goal

 To register an account in Rolls Logistic in order to book online, manage and pay for shipments, and access a suite of products and services designed to simplify your supply chain.

Precondition

If user does not have an account yet.



Basic Flow

The user will fill-up the following:

- Username
- Password
- Current Address
- First Name
- Last Name
- Phone Number
- Email

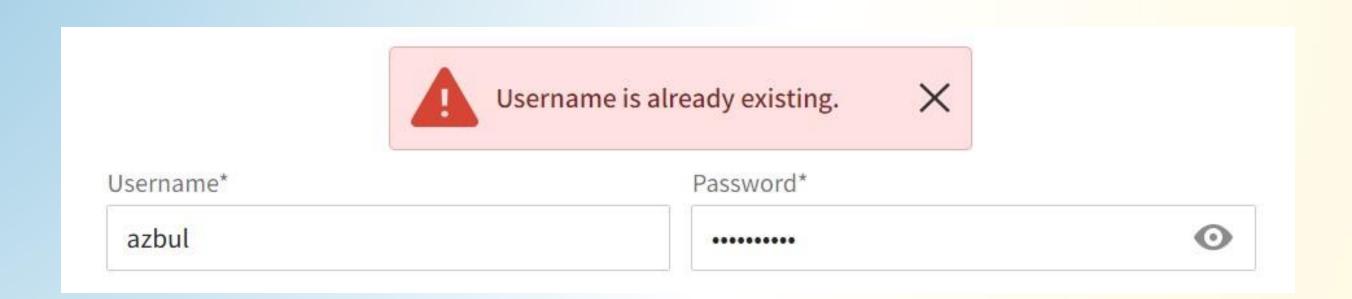
Alternative Flow & Business Rules

• The user must enter a unique username, or else, a prompt "username is already existing" will show.

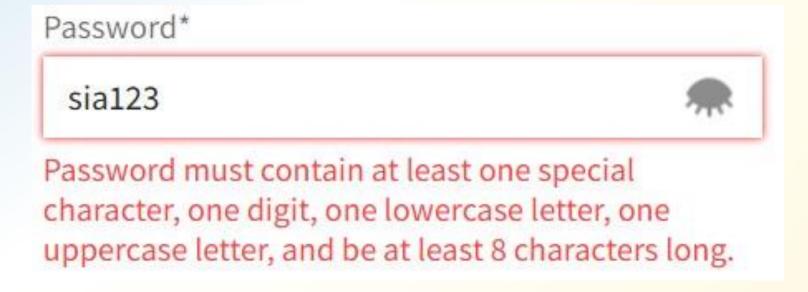








2. The user must follow the criteria for creating password, or else the system won't accept it.





3. The user's first and last name must only contain letters.

First name*	Last name*	
Marky123	Mapanoo2	
Firstname must not contain numbers.	Last must not contain numbers.	

4. The user's contact number must contain 11 digits.

Contact number*

0912289

Mobile must contain 11 numbers.

5. The user's email account must contain the '@' symbol

markygmail
Email must contain '@'





6. The user must fill all the blanks in order to create an account in Rolls Logistics.

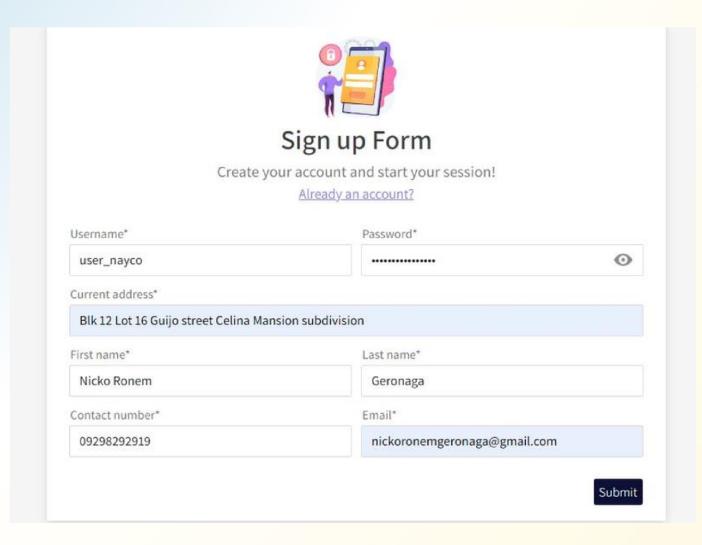
Username*	Password*	
username	password	
Username must not be empty	Password must not be empty.	
Current address*		
address		
Address must not be empty.		
First name*	Last name*	
first name	last name	
Firstname must not be empty.	Lastname must not be empty.	
	Email*	
Contact number*	Email*	
Contact number* ex: 09556654021	ex: john@gmail.com	





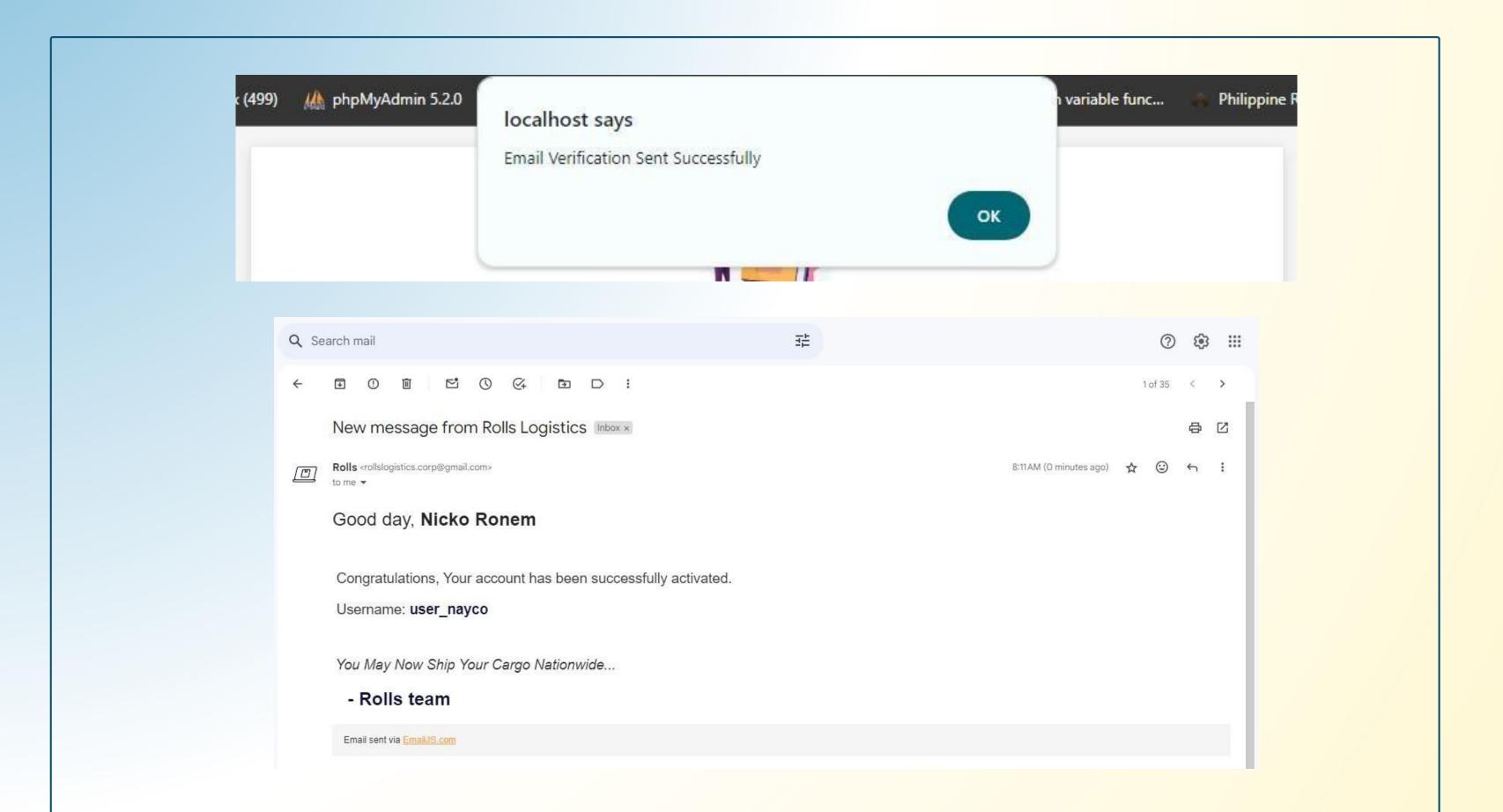
Termination Outcome

 Once the user has filled-up all the required information, an email verification will be sent to the email the user used in creating the account.













USE CASE 2: LOG-IN

Actor

User

Use Case Goal

To log in the system using the registered account.

Precondition

If user already has a registered account.





Basic Flow

- The user will enter the username he/she registered on the system.
- The user will enter the password he/she created on the system.

Alternative Flow & Business Rules

• If the user did not enter the exact username and password he/she created on the system, a prompt "invalid username or password" will show.

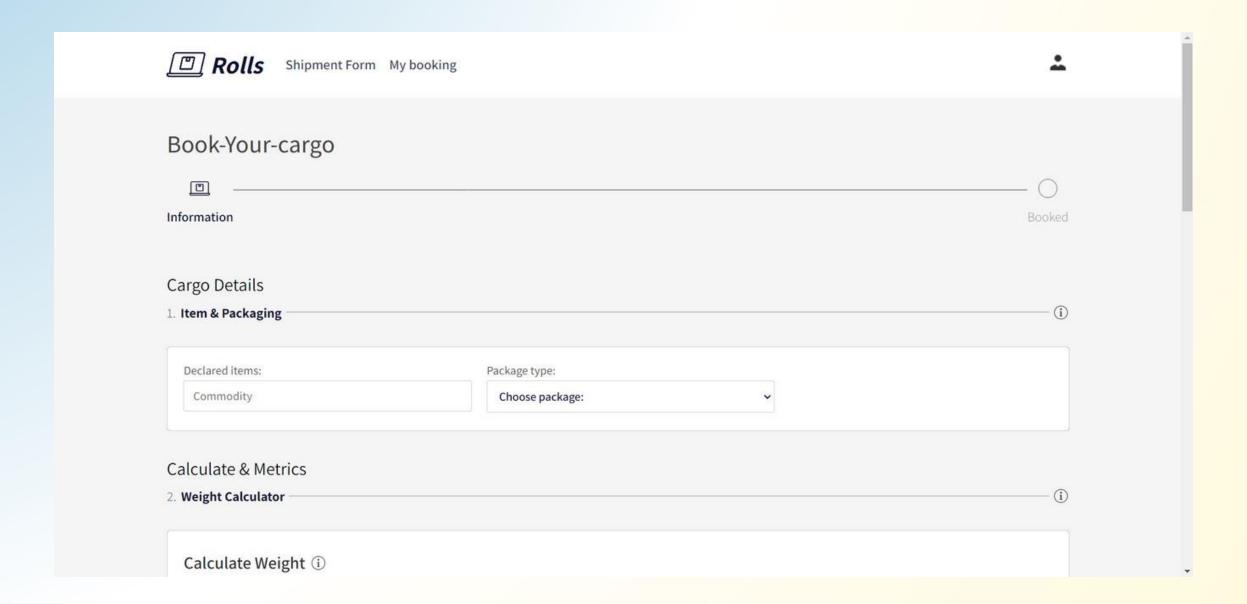
A	Invalid Username or Password .	×
Azbul		
•••••		•
Login		





Termination Outcome

After the user logged-in, he/she can now book a shipment for an item.







USE CASE 3: CHANGE PASSWORD

Actor

User

Use Case Goal

To change user password in log-in form.

Precondition

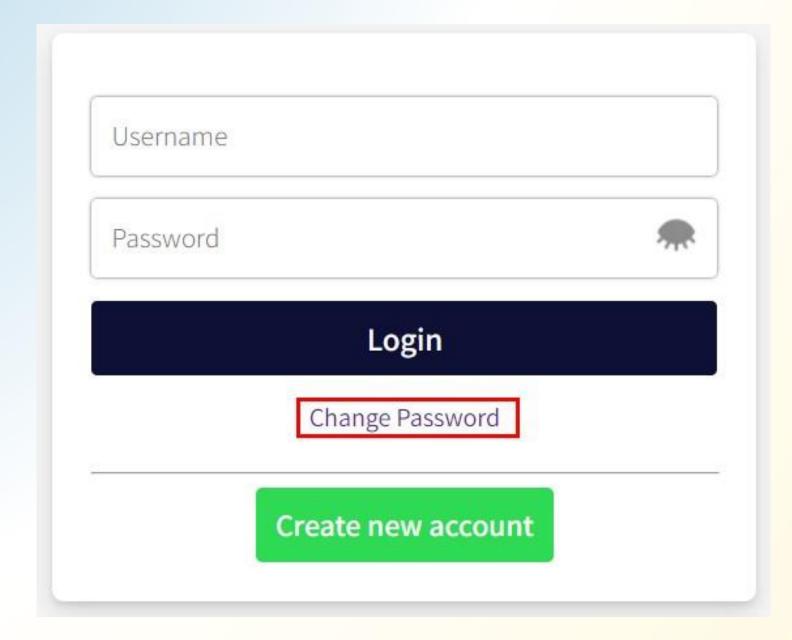
If user forgot the password of the account he registered on the system.





Basic Flow

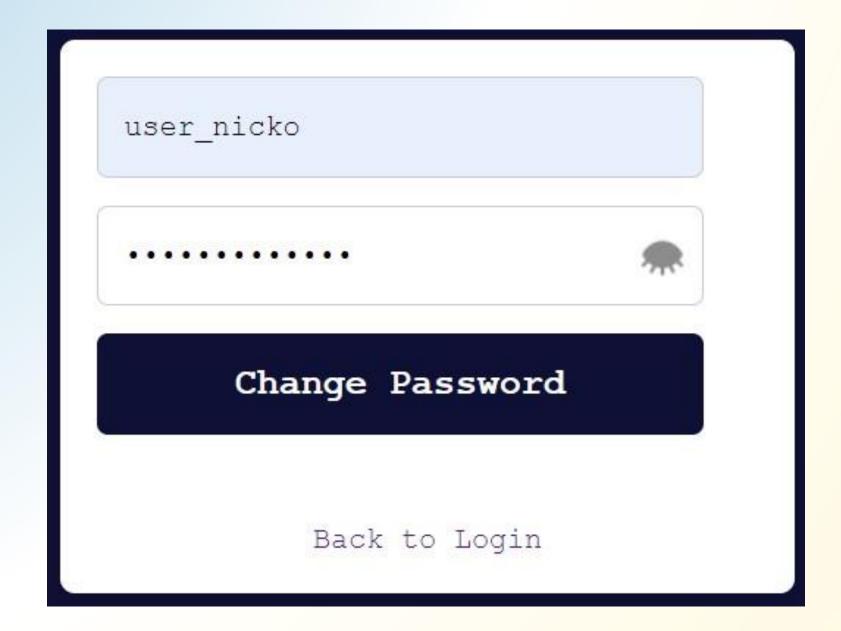
• The user can just click the 'change password' in the log-in form, and it will be directed to the page of change password.







2. The user must enter the username he registered in the system and enter a new password.







Termination Outcome

The user's password be successfully updated.

Password updated successfully.





USE CASE 4: UPLOAD A PROFILE

Actor

User

Use Case Goal

To upload a profile photo of the user.

Precondition

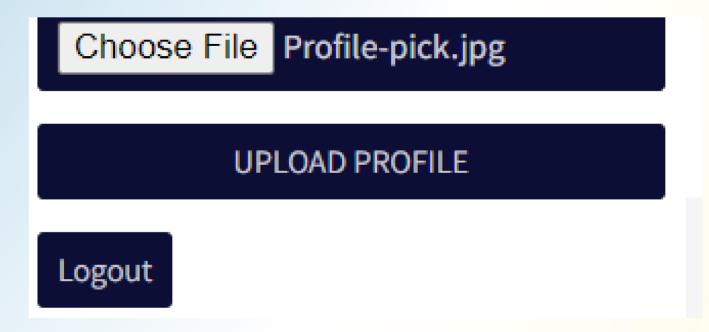
If user wants to upload a photo in his profile.





Basic Flow

The user can just upload any image file of him.



Termination Outcome:

The user has now a profile photo.









USE CASE 5: SHIPMENT FORM

Actor

User

Use Case Goal

To fill-up specific information about the item/cargo the user will book and manage.

Precondition

If user will book or ship any item.





Basic Flow

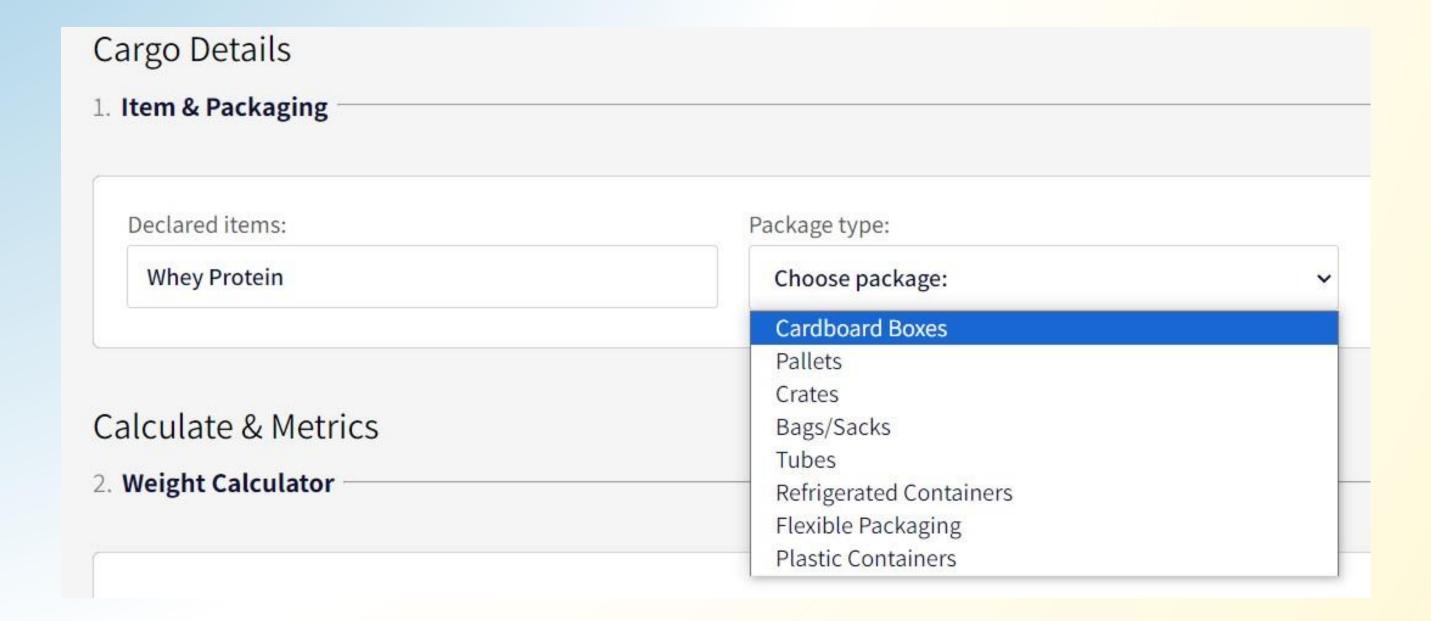
The shipment form includes four particular parts that must be filled-up by the user. These are:

- Cargo Details
 - o Item and Packaging
- 2. Calculate & Metrics
 - Weight Calculator
- 3. Sender & Recipient
 - Point to Destination
- 4. Date
 - Departure and Arrival
- 5. Pricing
 - o Gross Weight Price (no information needed)





 The user may put any item he/she wants to ship and must choose the packaging type of his/her cargo.







- 2. The user must insert the declared weight, delicate type, and mode of transportation of the item he/she will ship.
 - The weight unit will be in kilograms
 - Delicate type: sturdy or fragile
 - Mode of transportation: inland, vessel, plane







- The total price of the shipment will depend on the information of how the item the user wants to be shipped.
- The price for sturdy items is 70 per kilo in inland, 95 per kilo in vessel, 120 per kilo in plane. Meanwhile for fragile items is 85 per kilo in inland, 110 per kilo in vessel, 135 per kilo in plane.

Calculate Weight (i)	
Declared weight:	
10	kg
Delicate type:	
Sturdy	~
Mode of Transpo:	
Inland	~
Total Price:	700.00
	Calculate





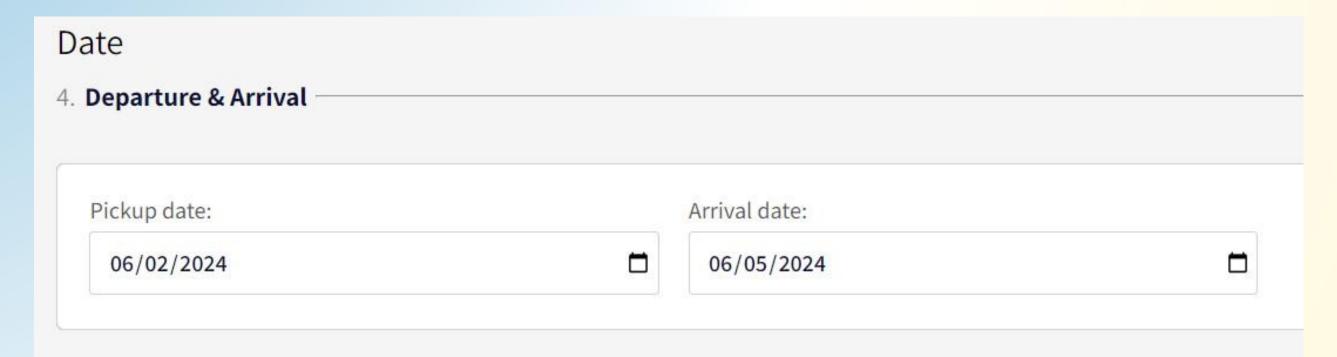
3. The user must choose pick-up and delivery country for the shipment. Also, the user must specify the pickup and delivery address.

ender & Recipient Point to destination		
Pickup country:		
Philippines	~	
Pickup address:		
Manila, Tondo luwalhati 43rd stree	t	
Delivery country:		
Philippines	~	
Delivery address:		
1330 Carmona Caviite		





4. The user must choose the exact pick-up and arrival date of the item he/she wants to ship.



5. After filling-up all the required information for the shipment, a total gross weight price of the product will show upon booking.

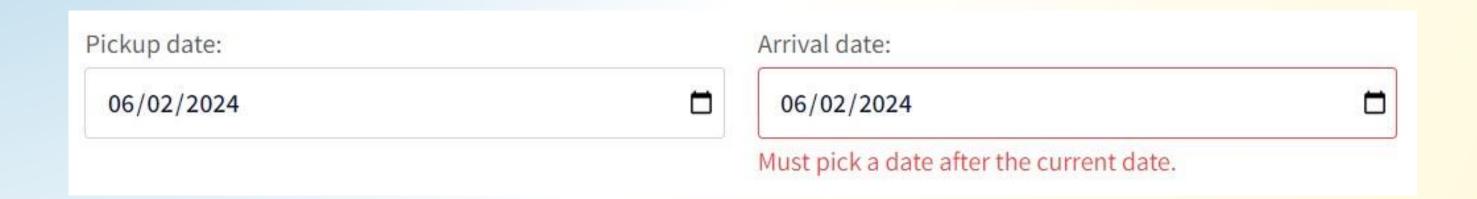
Pricing	
5. Gross Weight Price:	<u>(i</u>
	Total Price: 1350.00





Alternative Flow & Business Rules

 If the user chose an arrival date that is the same or before the pick-up date of the shipment, an error message will appear that says "must pick a date after the current date."



2. All the field information of the shipment form must be filled by the user in order to book.





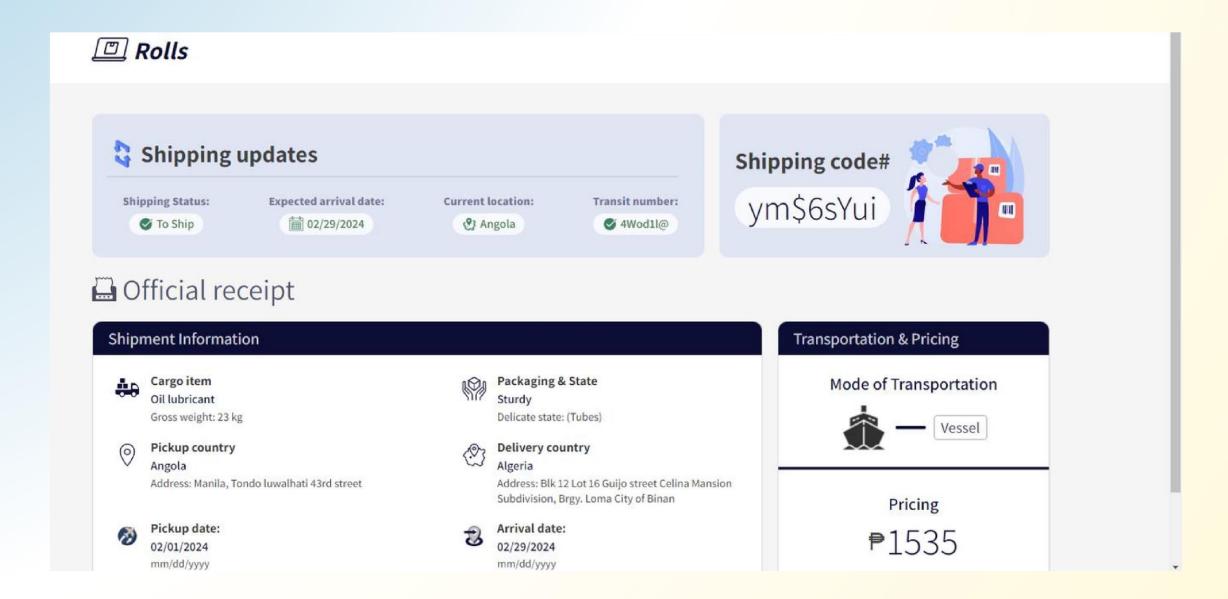
Cargo Details		
1. Item & Packaging		
Declared items: Commodity Declared items must not be empty	Package type: Choose package: Declared package must pick atleast one.	
Calculate & Metrics		
Calculate & Metrics 2. Weight Calculator		
		<u></u>
		<u></u>
2. Weight Calculator Calculate Weight (i)		<u></u>
2. Weight Calculator Calculate Weight (i) Declared weight:	kg	<u>(i)</u>
2. Weight Calculator Calculate Weight (i)	kg	(i)
2. Weight Calculator Calculate Weight i Declared weight: Weight in kg	kg	(i)
2. Weight Calculator Calculate Weight (i) Declared weight: Weight in kg Declared weight must not be empty.	kg	(i)





Termination Outcome

 A shipment information will show as a proof that the user has booked an item or cargo with shipping updates.







USE CASE 6: MY BOOKING PAGE

Actor

User

Use Case Goal

To manage and modify any of the shipment the user booked.

Precondition

If user wants to modify any of his bookings.





Basic Flow

The booking page shows the lists of the cargo/item that the user booked for a shipment.

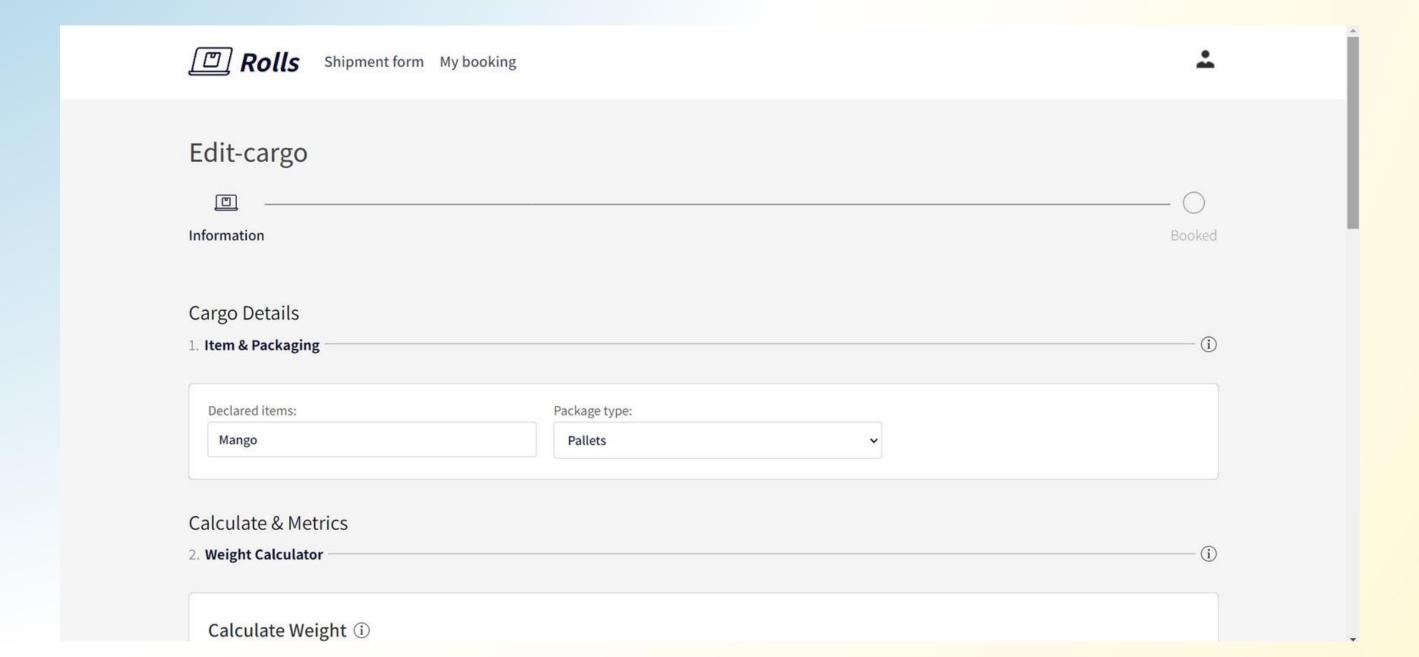
The user can choose to any of his bookings that he wants to cancel or modify.

Your Cargo List	
★ Mango・ Your Shipment Gross Weight was <u>24</u> kg - Declared as: <u>Fragile</u> state.	Pickup Via: Inland Pickup Date: 2024-02-01
★ Oil lubricant · Your Shipment Gross Weight was 23 kg - Declared as: Sturdy state.	Pickup Via: Vessel 🏠 Pickup Date: 2024-02-01 🚃
★ Motor・ Your Shipment Gross Weight was 400 kg - Declared as: Sturdy state.	Pickup Via: Vessel 🏠 Pickup Date: 2024-02-09 🚃
★ Apple・ Your Shipment Gross Weight was <u>40</u> kg - Declared as: <u>Fragile</u> state.	Pickup Via: Inland Pickup Date: 2024-02-02
♥ vape • Your Shipment Gross Weight was <u>25</u> kg - Declared as: <u>Fragile</u> state.	Pickup Via: Inland Pickup Date: 2024-02-05
★ Whey Protein・ Your Shipment Gross Weight was 10 kg - Declared as: Fragile state.	Pickup Via: Plane 🌱 Pickup Date: 2024-02-06 🚃





2. If the user wants to modify one of his bookings. The user will be redirected to the shipment form. Therefore, the user can change any details or information about the item he wants to ship.







3. If the user wants to delete any of his bookings, he can just click the delete button of the cargo and it will be deleted.

Your Cargo List		
★ Mango・ Your Shipment Gross Weight was 25 kg - Declared as: Fragile state.	Pickup Via: Inland	Pickup Date: 2024-02-01 📰 🕡
★ Oil lubricant・ Your Shipment Gross Weight was 23 kg - Declared as: Sturdy state.	Pickup Via: Vessel 🎄	Pickup Date: 2024-02-01
★ Motor・ Your Shipment Gross Weight was 400 kg - Declared as: Sturdy state.	Pickup Via: Vessel	Pickup Date: 2024-02-09 🚃
★ Apple・ Your Shipment Gross Weight was 40 kg - Declared as: Fragile state.	Pickup Via: Inland	Pickup Date: 2024-02-02
★ vape・ Your Shipment Gross Weight was <u>25</u> kg - Declared as: <u>Fragile</u> state.	Pickup Via: Inland	Pickup Date: 2024-02-05
★ Whey Protein・ Your Shipment Gross Weight was 10 kg - Declared as: Fragile state.	Pickup Via: Plane 🌱	Pickup Date: 2024-02-06





Alternative Flow & Business Rules

 The user must still follow the criteria for the pick-up and arrival date of the item and must fill all the required information of the shipment, in order to edit his booking.

Termination Outcome:

The user's booking page will be updated.





USE CASE 7: TRACKING CODE

Actor

User

Use Case Goal

To track any of the shipment that the user booked.

Precondition

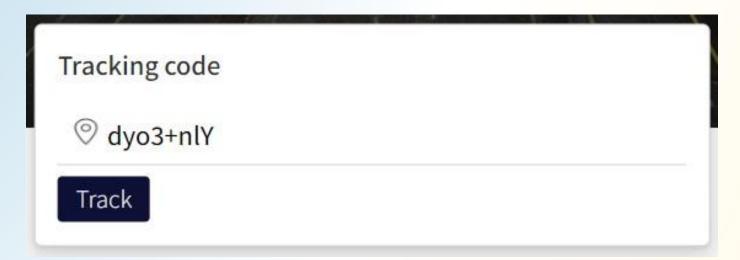
If the user wants to check the receipt of one of his bookings.





Basic Flow

The user will insert the shipping code of his cargo.



Alternative Flow & Business Rules

 The user must insert the correct shipping code, or else the user will be redirected to a page that shows that his shipping code is invalid.



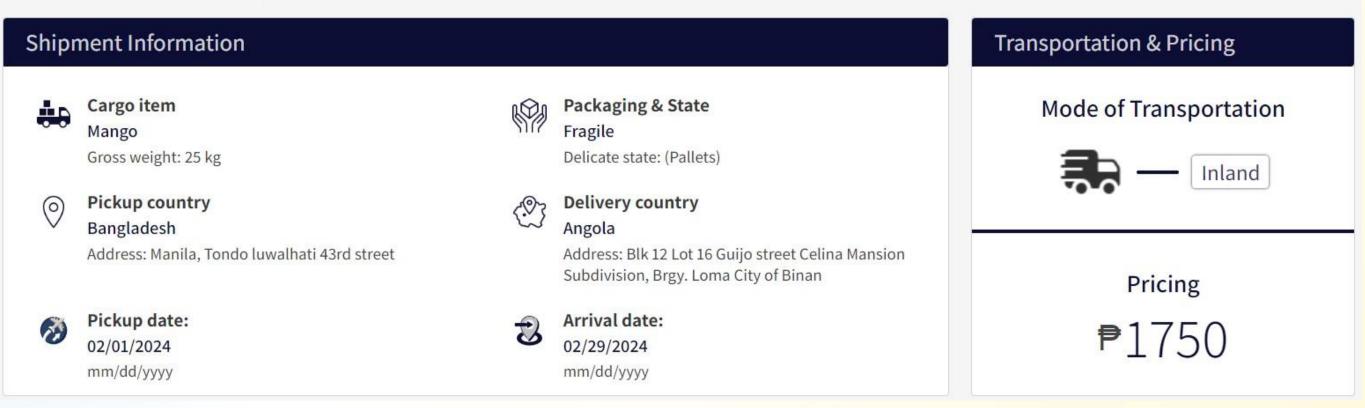




Termination Outcome:

 If the user has entered a correct shipping code, he will be redirected to the receipt page of the corresponding shipment.

Official receipt









MODULES

System Integration and Architecture





10 Functions of Rolls Logistics System

- Account Registration
- Shipment Transaction
- View shipment Transaction
- Delete Transaction
- Edit shipment Transaction
- View Transaction via shipping code





- Account Logout
- User profile customization
- Sender and Recipient Details
- Tracking Code

Account Registration: This function allows users to create their accounts within the Rolls Logistic System. Users can provide necessary information, such as contact details and login credentials, to establish their presence in the system securely.

Shipment Transaction: With this feature, users can initiate new shipment transactions within the Rolls Logistic System. They can





input essential details like the sender's and recipient's addresses, package dimensions, and shipping preferences to kickstart the logistics process.

View Shipment Transaction: This function enables users to access and review existing shipment transactions stored in the Rolls Logistic System. Users can track the progress of their shipments, review delivery statuses, and obtain essential details regarding past transactions.

Delete Transaction: Users can utilize this function to remove unwanted or outdated shipment transactions from the system. Whether it's





canceling a shipment or removing redundant data, this feature offers users the flexibility to manage their transaction records efficiently.

Edit Shipment Transaction: This feature empowers users to modify details of existing shipment transactions as needed. Whether it's updating delivery addresses, changing shipping preferences, or adjusting package information, users can make necessary alterations to ensure accurate logistics processing.

View Transaction via Shipping Code: Users can swiftly retrieve specific shipment transactions by inputting their unique shipping codes.





This function streamlines the tracking process, allowing users to access pertinent transaction details quickly and conveniently.

Account Logout: Ensuring security and privacy, this function enables users to log out of their accounts securely. By terminating active sessions, users can protect their account information and prevent unauthorized access to the Rolls Logistic System.

User Profile Customization: This feature allows users to personalize their profiles within the Rolls Logistic System. From updating contact information to setting preferences and notifications,





users can tailor their profiles to suit their specific needs and preferences.

Sender and Recipient Details: Users can input and manage sender and recipient information for each shipment transaction. This function ensures accurate and efficient delivery by providing essential details for both the origin and destination of packages.

Tracking Code: Each shipment transaction is assigned a unique tracking code, allowing users to monitor its progress throughout the logistics process. By entering the tracking code, users can obtain real-time updates on their shipments' whereabouts and delivery status.