

# SW Engineering CSC648-848-05 Fall2023

**OrderOwl**

**Team 06**

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**Milestone 3**

December 2, 2023

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M2V2	12/02/23
M2V1	11/02/23
M2V2	11/02/23
M2V1	10/13/23

M1V2	10/12/23
M1V1	09/21/23

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## **I. Data Definitions:**

### **a. Registration (passwordID, UserID, emailID, firstNameId, lastNameId)**

User shall be able to register to our site and use our services with OrderOwl. We shall request the user a password, username, email, first name and last name. We need the username to be unique in order for no confusion to happen with other accounts that have been created. For the user's password the user shall create a password that must have at least one capital letter, special character, and a minimum of 10 characters. We shall also request an email as well in order send an email with a confirmation link to finalize the creation of their account. Finally, the user's email shall be used to receive updates about their packages.

### **b. User login (password, username, email) (UserId, userpswd, userEmail)**

We shall store our users information in our database in order for their information to be saved within our application for future use. The user shall use their information to log back into OrderOwl and to view their tracked packages. All of the users information will be stored in our database encrypted for the safety of our users. Our team shall use “Let’s Encrypt” in order to encrypt the users information in case of any hacking attempts to our software.

### **c. Tracking numbers and links (trackNum, trackLink)**

A lot of the websites we’re working with offer a tracking number or a link where the user can keep track of their orders. This will also help our team to make sure everything is being tracked and updated accordingly. We will store this information in the database so our users won’t lose their tracking information.

### **d. Amount of orders/Order History**

Our users might make more than one order and would want to keep track of all of them. We will store the number of items they’ve ordered to keep count and to be able to show them more than one order. This also helps the user to have a list of all their orders all in one website without having to switch. The user will have no limit on the amount of orders on the list, we will store all of the orders in our database and as well as their history of completed tracked orders.

### **e. Accounts from different websites**

To make it easier for users, we will be storing some of the user's accounts in our database so we can get the information for their orders on their account. This way we can access their tracking numbers or links to keep them updated on their orders. After we get access to this information, we will make sure to encrypt it so no one will be able to look at this information.

**f. Order Category**

The orders shall have a category depending on the item they ordered, such as clothing, electronics, food, or other categories. This will allow the user to have a better experience navigating through all their orders. There will be no need to scroll through so many orders in order to find a specific one. In case the user doesn't see a category that fits their order, they shall be able to create their own category. This shall work sort of like a music playlist, but this time we are putting in orders to be able to track.

**g. Order Information**

Users shall see the details about the item they've ordered from the website. This shall provide the user with a description of the item they ordered in case they forget what it was. In addition, the order information should contain the amount they paid for the order, when they bought it, and the quantity of items under an order if applicable.

**h. Deleted Orders**

All our user's orders will be stored in our database after they are uploaded. After the user decides to delete the order from their account, the tracking information for that order will be gone from our database and account.

**i. Updates**

Before we roll out updates we will store the information in our database in order to be ready to push it out for the public. We shall inform our users of our rolled out updates to keep them updated on what is new. Sometimes when a user uses an updated application, some stuff might be moved around or there might be new features.

**j. Notifications**

We will be sending out notification to users whenever they have an upcoming delivery. We will store the notifications in our database to get a basic template of what we are sending out to our users. This could potentially lead to less packages getting stolen and more people being ready to receive their package.

**k. Data from our customers**

We shall collect data from our customers in order to ensure the best experience for our Users. We will never give away or sell the information we receive from our users. We will only use it for the benefit of a better experience for users on OrderOwl.

**l. Administration**

Admin shall be able to login to their administrative accounts in order to do some testing with features that haven't come out yet. We will store login information for admin usage separate from regular users. This will help us to test out features that are not out yet before sending it out.

**m. Return/Refund**

We will be storing the refund and return information in our database for the user to see the tracking information as well. We shall also change the information on how much money they got back from their refund. This shall allow the user to keep track if they ever received the money back from the shipper.

**n. FAQ (Frequently Asked Questions)**

Some questions that our users will be asked frequently in messages. We will store these in a separate section of our OrderOwl website in case they have any doubts of how to use something. Users shall be able to find their answer quicker than having to wait for a message back from an admin. We shall update this list whenever we notice a pattern of the same question going on.

**o. Sharing**

Users will be able to share tracked packages amongst friends, family, or others to keep more than one person updated on the tracking of an order. Users will only be able to share the packages that are stored in your account because we will be able to share from our database where it is saved.

**p. Hidden Packages**

When our users use our software they will have the option of hiding their package. Even though it is hidden, it will still be in our database the entire time it is hidden, it will just look like it was deleted. There will be a tab of hidden orders in order to be able to check on them still.

**q. Privacy**

We will be taking care of privacy by encrypting in our database the users information and tracking information they've saved on our software.

## **II. Prioritized Functional Requirements:**

### **a) Priority 1 (must have):**

User:

- 1.1 User shall be able to track all their packages with tracking information.
- 1.2 User shall be able to add/delete tracking information.
- 1.3 User shall be able to login.
- 1.4 User shall be able to create/delete their account.
- 1.5 User shall be able to update their profile information.
- 1.6 User shall be able to recover password when needed.
- 1.7 User shall be able to see/hide their history of completed tracked orders.
- 1.9 User shall be able to sort their tracking information.
- 1.12 User shall be able to submit a ticket for help.
- 1.19 User shall be able to post one or more questions.
- 1.20 User shall be able to view the overview calendar.
- 1.21 User shall be able to view any month within a year in advance or within the past year.
- 1.22 User shall optionally be able to provide their feedback for the application.
- 1.23 User shall be able to choose whether they would like a personal or business account if they were to register.

Admin:

- 2.1 Admin shall be able to access all data.
- 2.2 Admin shall be able to modify any data.
- 2.4 Admin shall be able to create any type of account.
- 2.6 Admin shall be able to view another account.
- 2.10 Admin shall have the ability to conduct system maintenance and updates without disrupting user access.
- 2.11 Admin shall be able to receive and review user feedback and reports regarding system performance and functionality.

2.13 Admin shall be able to post one or more answer replies to questions posted by users.

System:

3.1 System shall be able to collect traffic data.

3.2 System shall be able to store traffic data to improve user experience.

Notification:

4.1 Notification shall be able to be sent.

4.2 Notification shall be able to be received.

4.3 Notification shall be able to be stored.

4.4 Notification shall be able to be viewed.

4.6 Notification shall be able to be deleted.

4.8 Notification shall be time stamped to indicate the date and time of sending or receiving.

Tracking Information:

5.1 Tracking information shall be able to be stored.

5.3 Tracking information shall maintain an up to date dispatch alerts.

5.2 Tracking information shall be able retrieved in real time according to shipping carrier updates

5.4 Tracking information shall maintain an up to date database.

5.6 Tracking information shall update the overview calendar with ETA dates for tracked orders.

Overview Calendar:

6.1 Overview Calendar shall be able to mark the dates when orders are estimated to arrive.

6.2 Overview Calendar shall begin on the month a registered user signs up on.

6.3 Overview Calendar shall have a year in advance for a registered user to view.



6.4 Overview Calendar shall have the past year saved for a registered user to view.

**b) Priority 2 (desired):**

User:

- 1.8 User shall be able to save their tracking history into a file.
- 1.10 User shall be able to receive email notification of tracking updates.
- 1.24 User shall be able to edit the name of the label on a tracked order item.

Admin:

- 2.3 Admin shall be able to suspend any account if needed.
- 2.9 Admin shall be able to assign specific access levels and permissions to different user roles (e.g., standard user, moderator).
- 2.12 Admin shall have the authority to implement security protocols, including password policies and two-factor authentication, for user accounts.

Tracking Information:

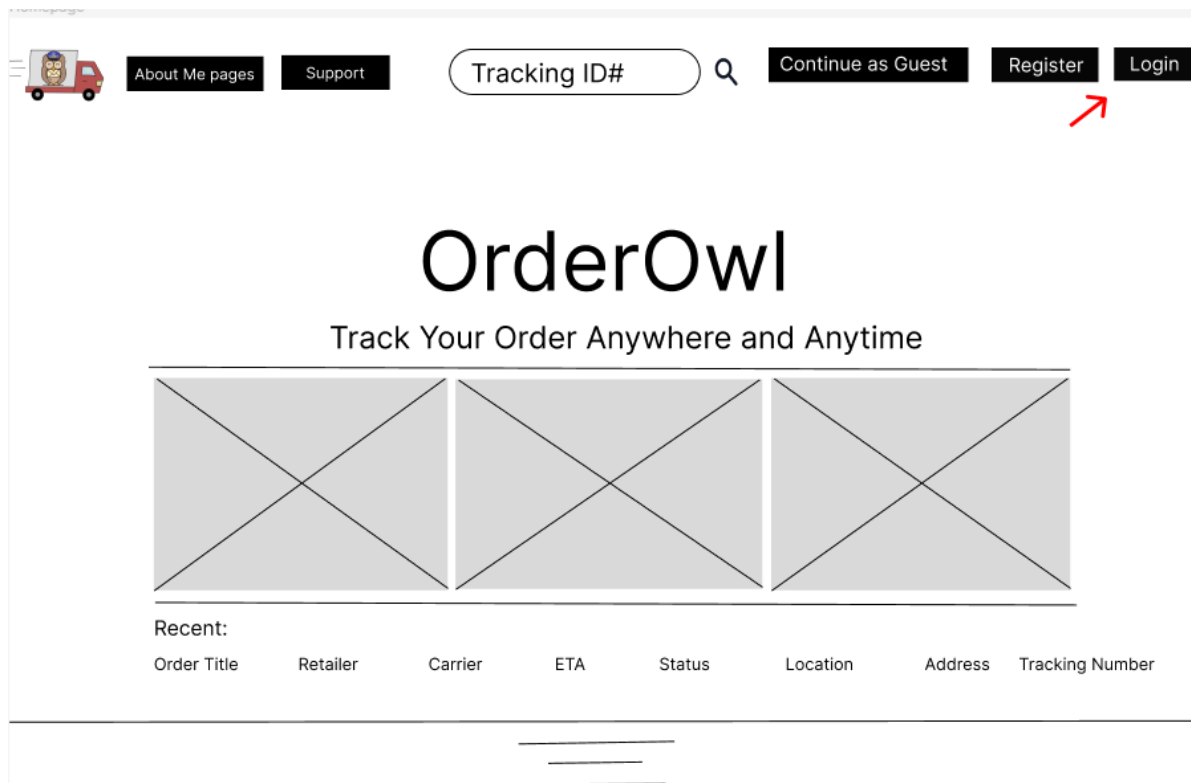
- 5.5 Tracking information shall be accessible through a mobile application for on-the-go access.

Overview Calendar:

- 6.5 Overview Calendar shall not include the ETA dates for hidden orders.
- 6.6 Overview Calendar shall contain embedded links on each ETA date and redirect a registered user to its page for more information.

### III. Wireframes Based on your Mockups/Storyboards:

#### Use Case 1:



# OrderOwl

Welcome back

Email

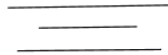
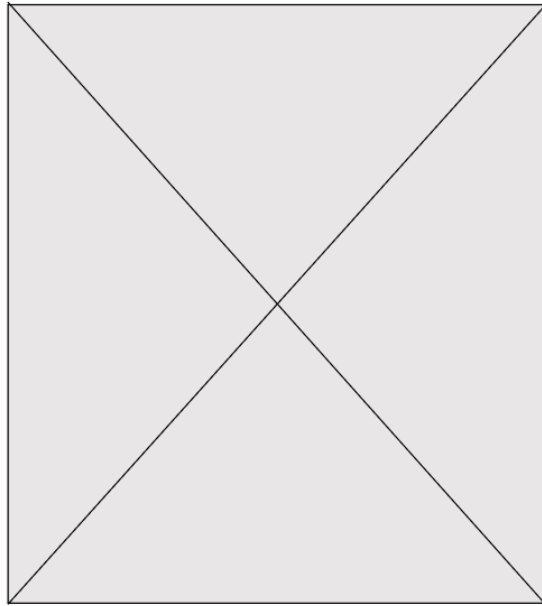
test@gmail.com


Password

12345678!A

Need an account? [Register](#)

[Forgot Password](#)





Dashboard


Upload

TrackInfo

Bell

Setting

# Dashboard


Tracking ID# 

November

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday

Arriving soon:

Order Title	Retailer	Carrier	ETA	Status	Location	Address	Tracking Number
-------------	----------	---------	-----	--------	----------	---------	-----------------



Dashboard

Upload


TrackInfo

Bell

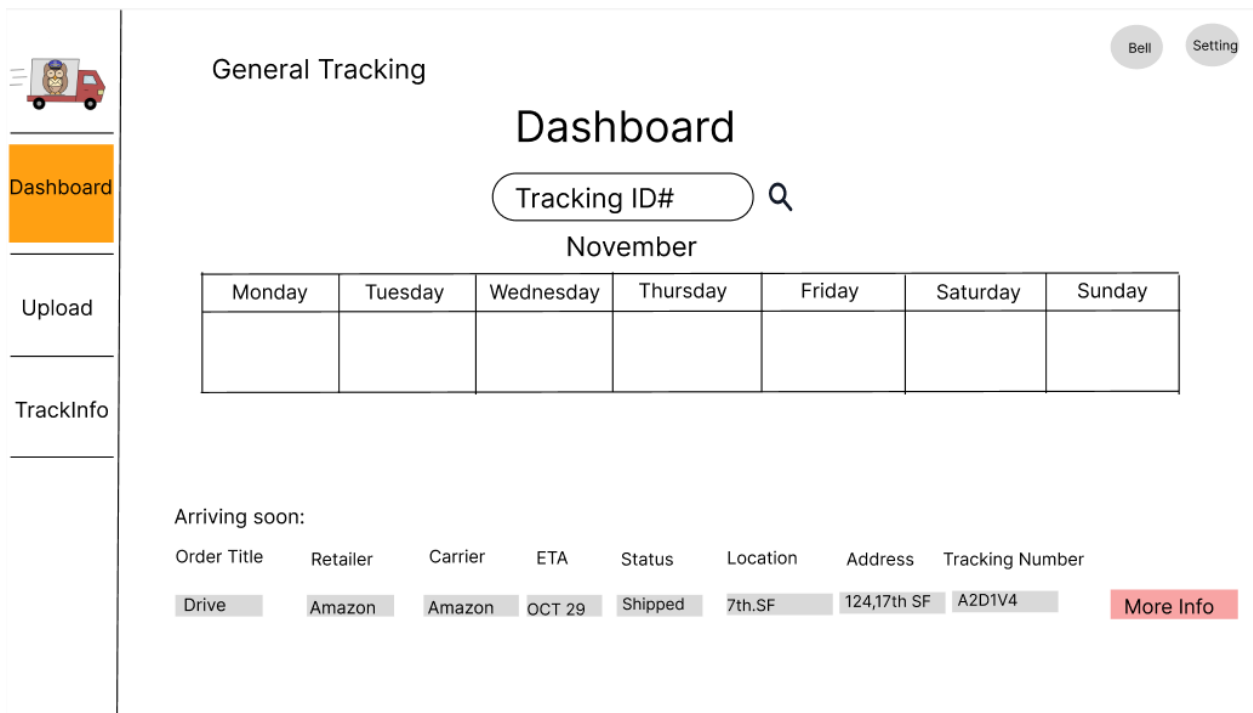
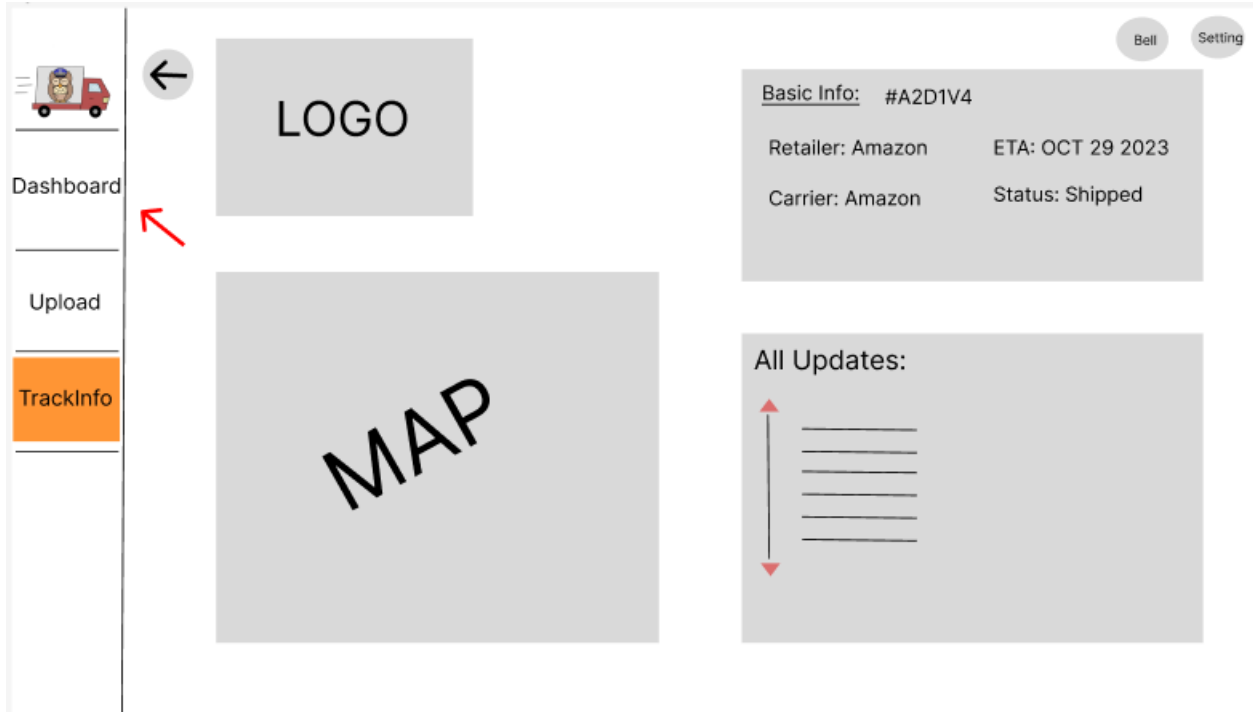
Setting

# Upload

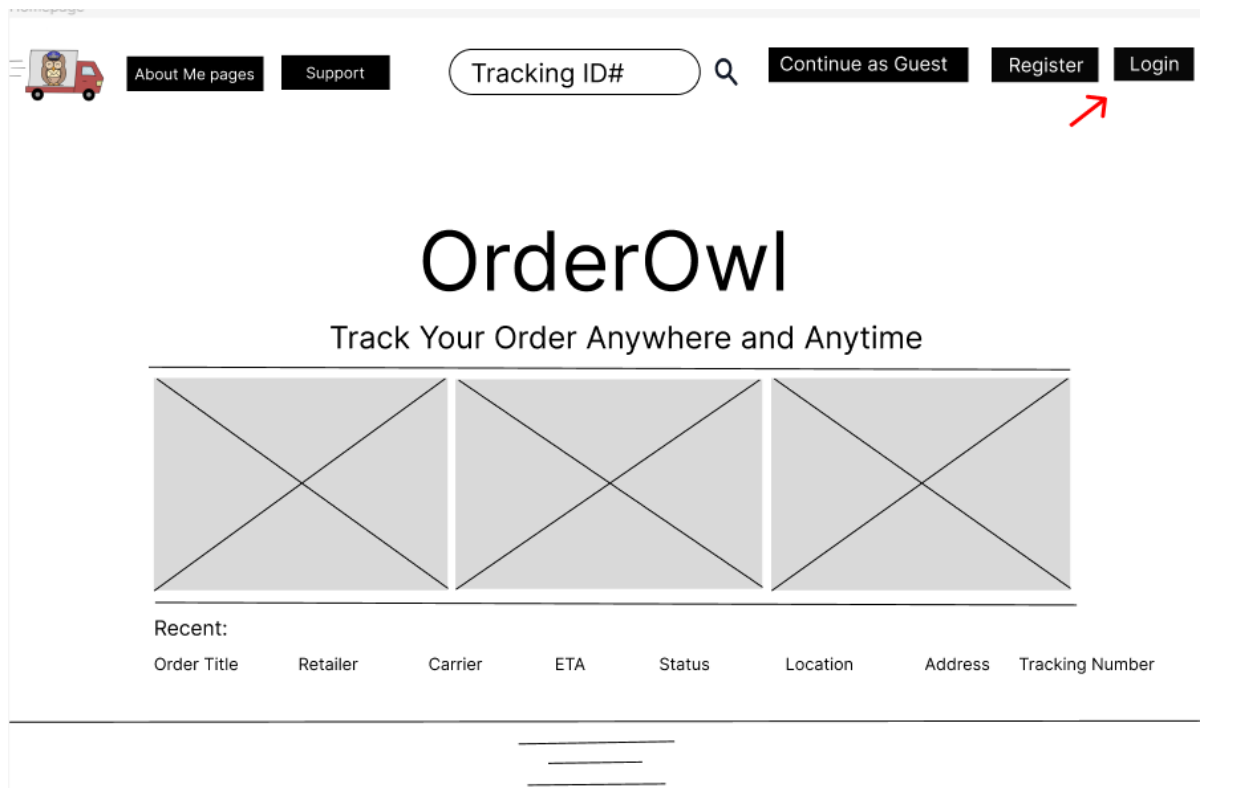
Tracking Number	Order Title
A2D1V4	Drive
Visible	Hidden



Footer:



## Use Case 2:



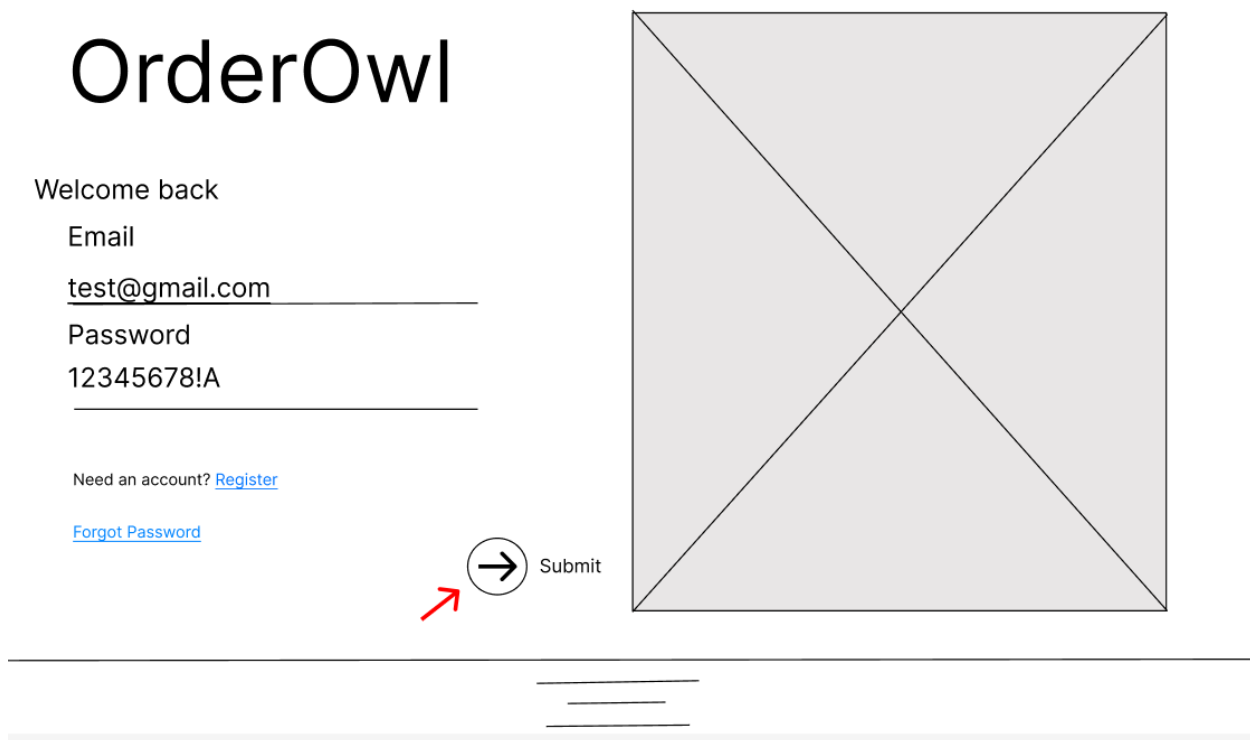
A homepage mockup for OrderOwl. At the top is a navigation bar with a truck icon, 'About Me pages', 'Support', a search bar with 'Tracking ID#' and a magnifying glass icon, and buttons for 'Continue as Guest', 'Register', and 'Login'. A red arrow points to the 'Register' button. Below the navigation bar is the 'OrderOwl' logo and the tagline 'Track Your Order Anywhere and Anytime'. Underneath are three placeholder boxes with diagonal lines. A 'Recent:' section follows with a table header: Order Title, Retailer, Carrier, ETA, Status, Location, Address, and Tracking Number. At the bottom is a hamburger menu icon.

OrderOwl

Track Your Order Anywhere and Anytime

Recent:

Order Title	Retailer	Carrier	ETA	Status	Location	Address	Tracking Number
-------------	----------	---------	-----	--------	----------	---------	-----------------



A login page mockup for OrderOwl. It features the 'OrderOwl' logo on the left. Below it is a 'Welcome back' message, followed by 'Email' and 'Password' labels. The email field contains 'test@gmail.com' and the password field contains '12345678!A'. Below the fields are links for 'Need an account? Register' and 'Forgot Password'. A 'Submit' button with a right arrow icon is at the bottom left, with a red arrow pointing to it. To the right of the form is a large placeholder box with diagonal lines. At the bottom is a hamburger menu icon.

OrderOwl

Welcome back

Email


test@gmail.com


Password

12345678!A

Need an account? [Register](#)

[Forgot Password](#)

 Submit



Dashboard

Upload


TrackInfo

General Tracking

Bell

Setting

Dashboard


Tracking ID# 

November

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday

Arriving soon:

Order Title	Retailer	Carrier	ETA	Status	Location	Address	Tracking Number
-------------	----------	---------	-----	--------	----------	---------	-----------------



Dashboard

Upload

TrackInfo

New Tracking Info

Bell

Setting

Upload

Tracking Number


A2D1V4

Visible

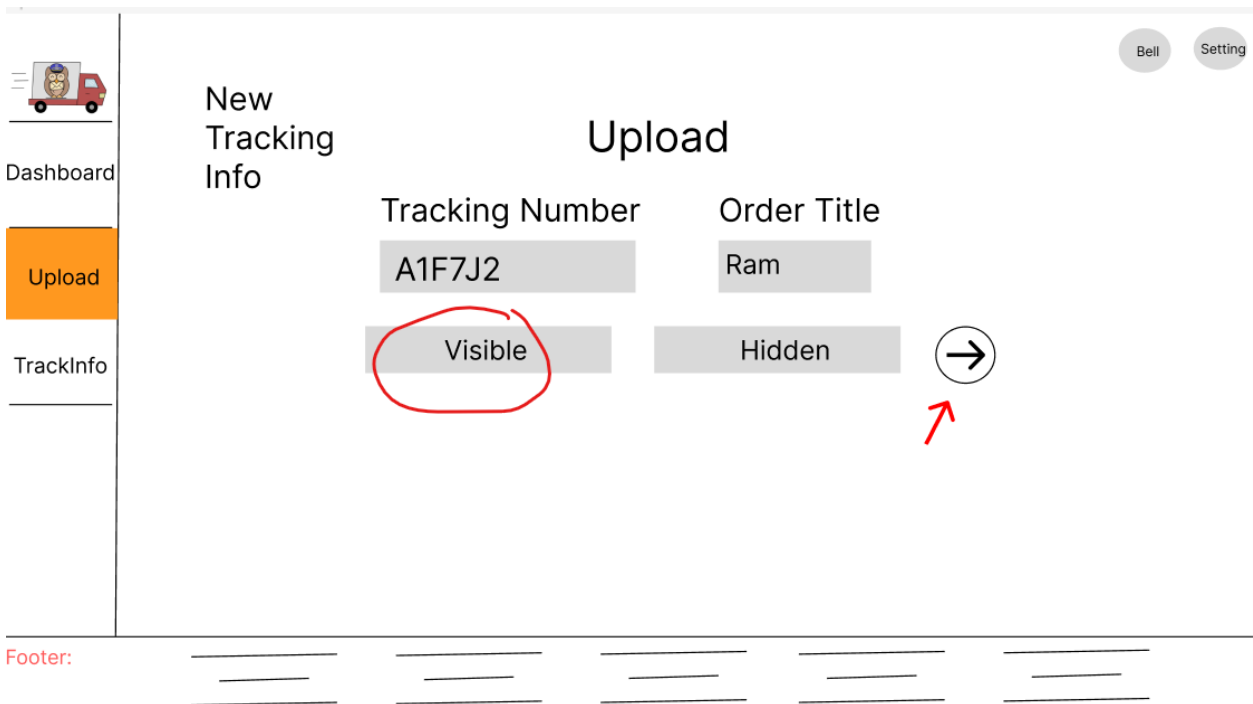
Order Title

Drive

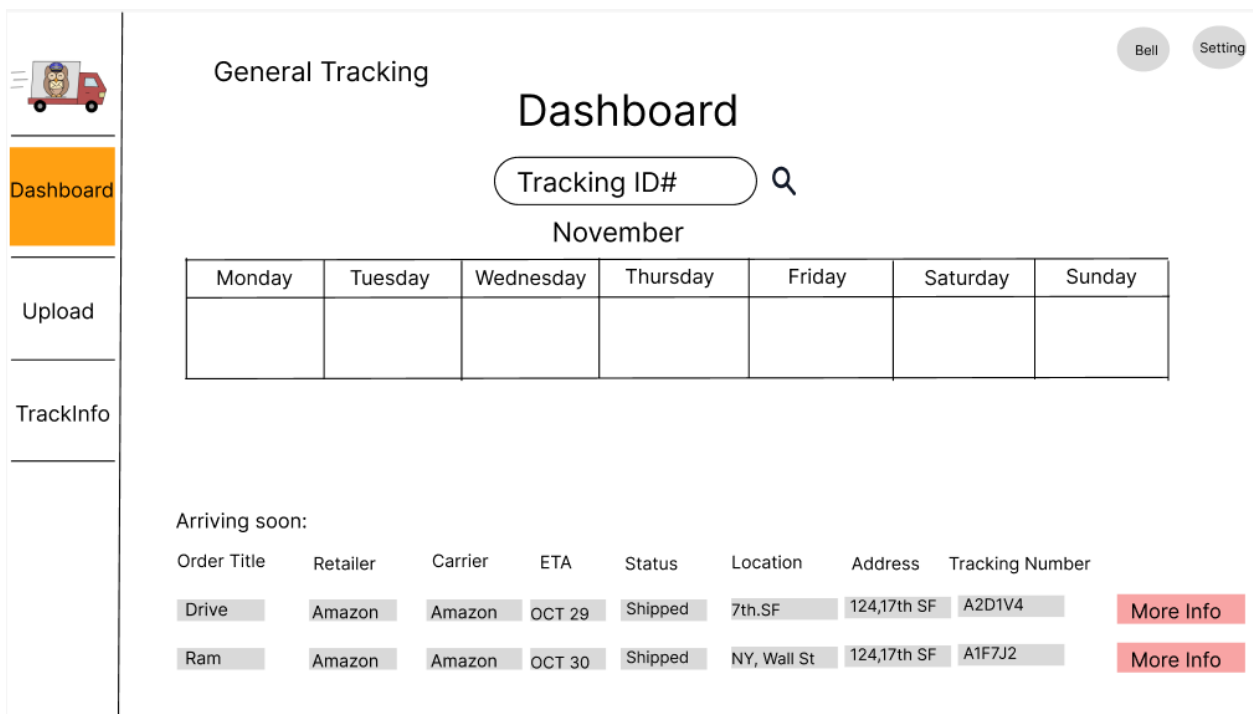
Hidden




Footer:







### Use Case 3:

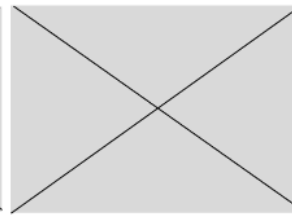
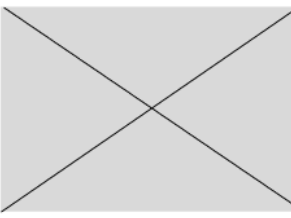
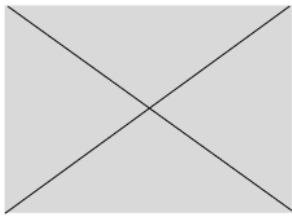


[About Me pages](#)[Support](#)

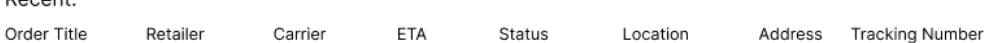
[Continue as Guest](#)[Register](#)[Login](#)

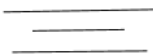
# OrderOwl

Track Your Order Anywhere and Anytime



Recent:

Order Title	Retailer	Carrier	ETA	Status	Location	Address	Tracking Number
							



# OrderOwl

Welcome back

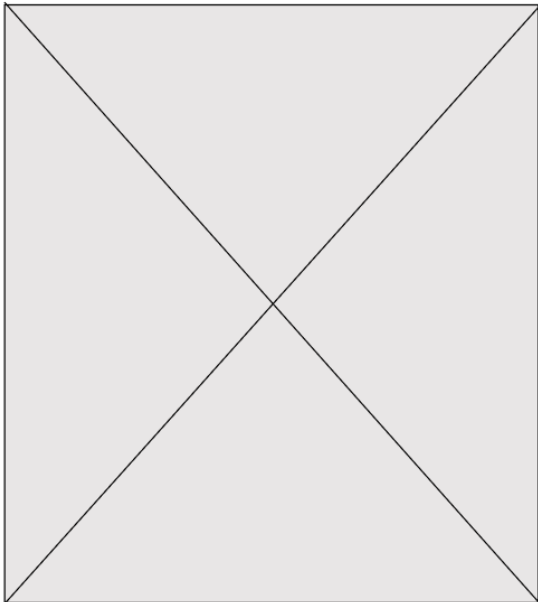
Email

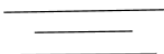
Password


Need an account? [Register](#)

[Forgot Password](#)

Submit







Dashboard


Upload

TrackInfo

General Tracking

Setting

Dashboard


Tracking ID#  

November

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday

Arriving soon:

Order Title	Retailer	Carrier	ETA	Status	Location	Address	Tracking Number	
Drive	Amazon	Amazon	OCT 29	Shipped	7th.SF	124,17th SF	A2D1V4	<a href="#">More Info</a>
Ram	Amazon	Amazon	OCT 30	Shipped	NY, Wall St	124,17th SF	A1F7J2	<a href="#">More Info</a>





Dashboard


Upload

TrackInfo

Search:

Setting

Order Title	Retailer	Carrier	ETA	Status	Location	Address	Tracking Number	
Drive	Amazon	Amazon	Oct 29 2023	Shipped	SF, 7th ave	124,17th SF	A2D1V4	
Ram	Amazon	Amazon	Oct 30 2023	Shipped	NY, Wall St	124,17th SF	A1F7J2	



Dashboard


Upload

TrackInfo

Search:


GO

Setting

Order Title	Retailer	Carrier	ETA	Status	Location	Address	Tracking Number	
Ram	Amazon	Amazon	Oct 30 2023	Shipped	NY, Wall St	124,17th SF	A1F7J2	



## Use Case 4:



[About Me pages](#)[Support](#)

[Continue as Guest](#)[Register](#)[Login](#)

# OrderOwl

Track Your Order Anywhere and Anytime

Recent:

Order Title	Retailer	Carrier	ETA	Status	Location	Address	Tracking Number
-------------	----------	---------	-----	--------	----------	---------	-----------------

# OrderOwl

Welcome back

Email

Password

Need an account? [Register](#)

[Forgot Password](#)

Submit

Dashboard

Upload

TrackInfo

General Tracking

Dashboard

Tracking ID#

Calendar

November

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday

Arriving soon:

Order Title	Retailer	Carrier	ETA	Status	Location	Address	Tracking Number
-------------	----------	---------	-----	--------	----------	---------	-----------------

Dashboard

Upload

TrackInfo

New Tracking Info

Upload

Tracking Number

A2D1V4

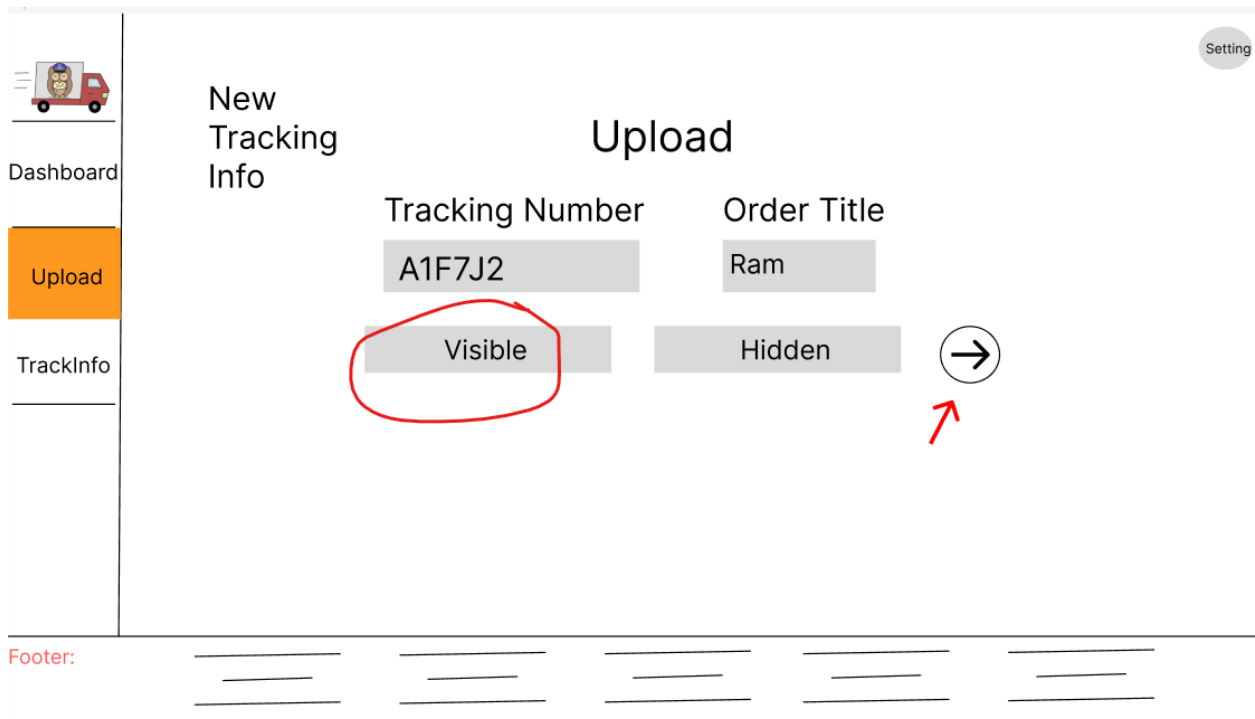
Visible

Order Title

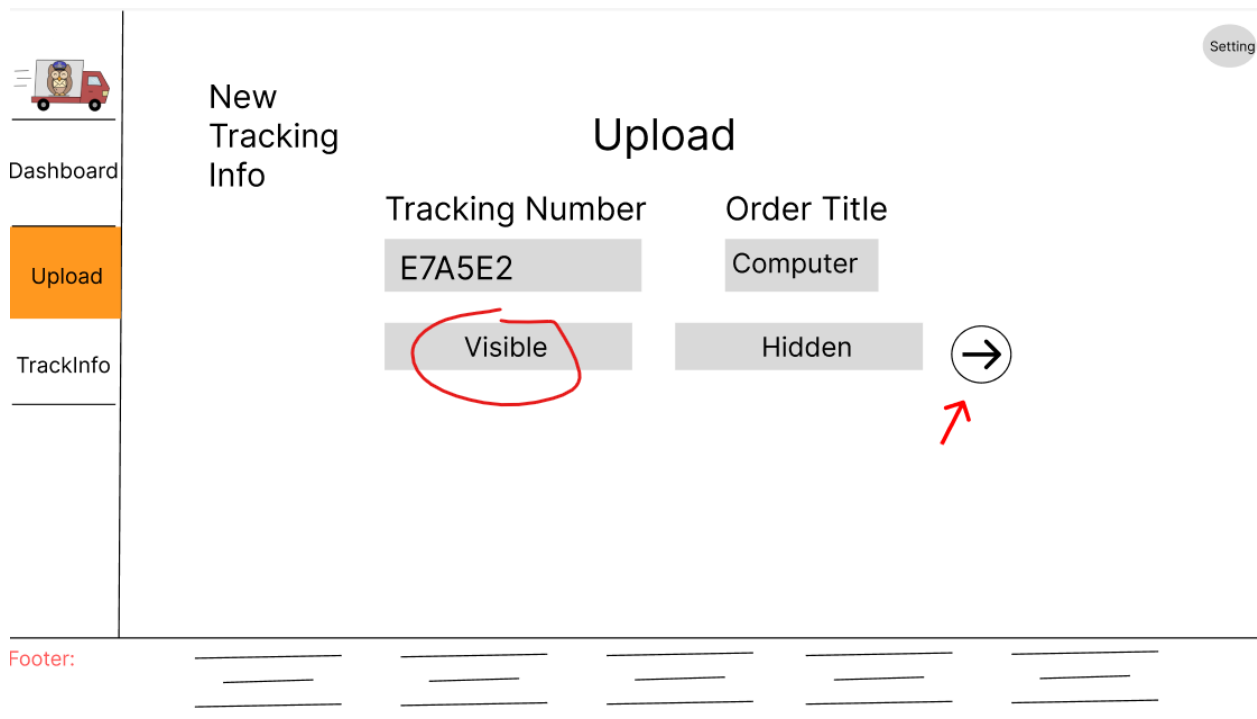
Drive

Hidden

Footer:

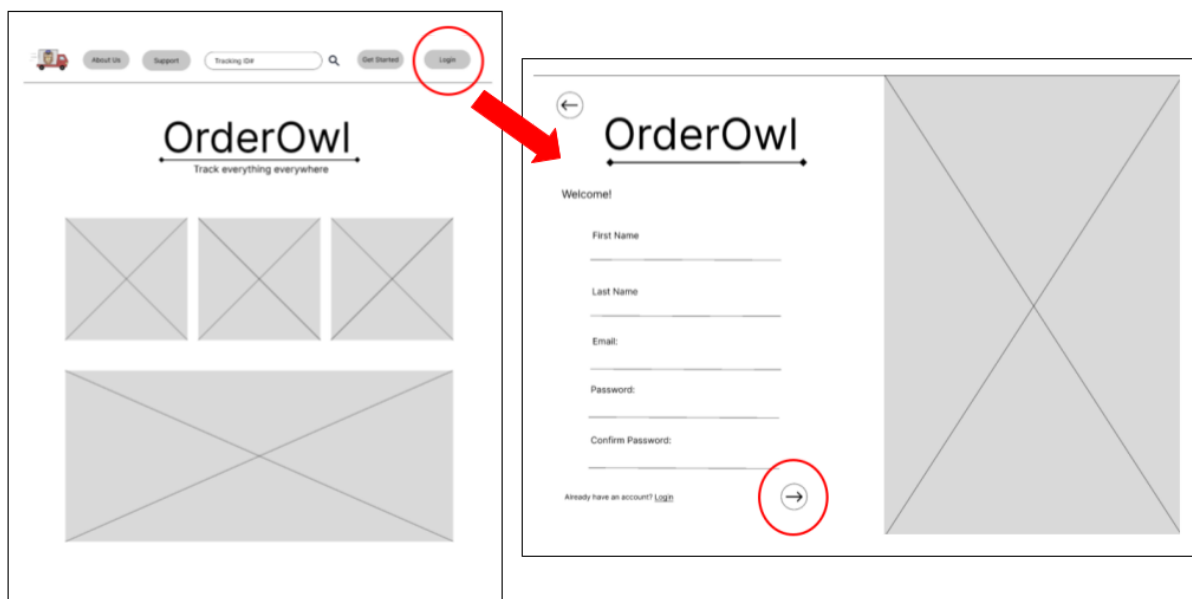


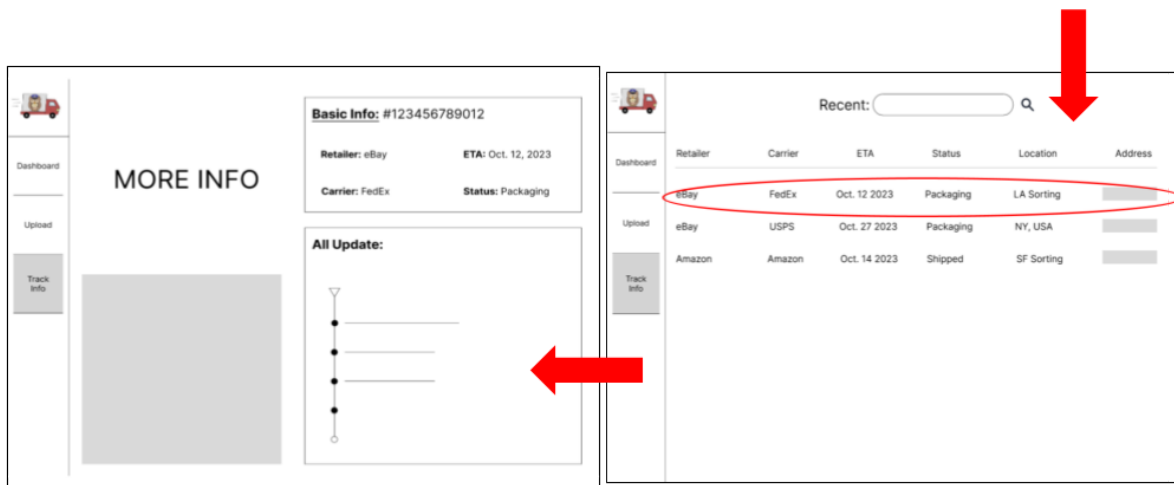
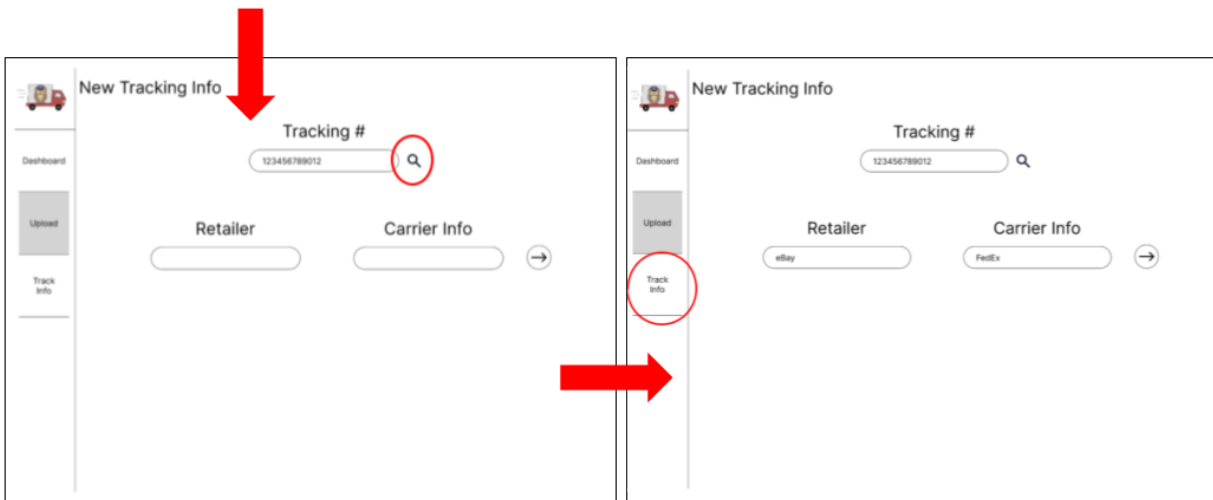
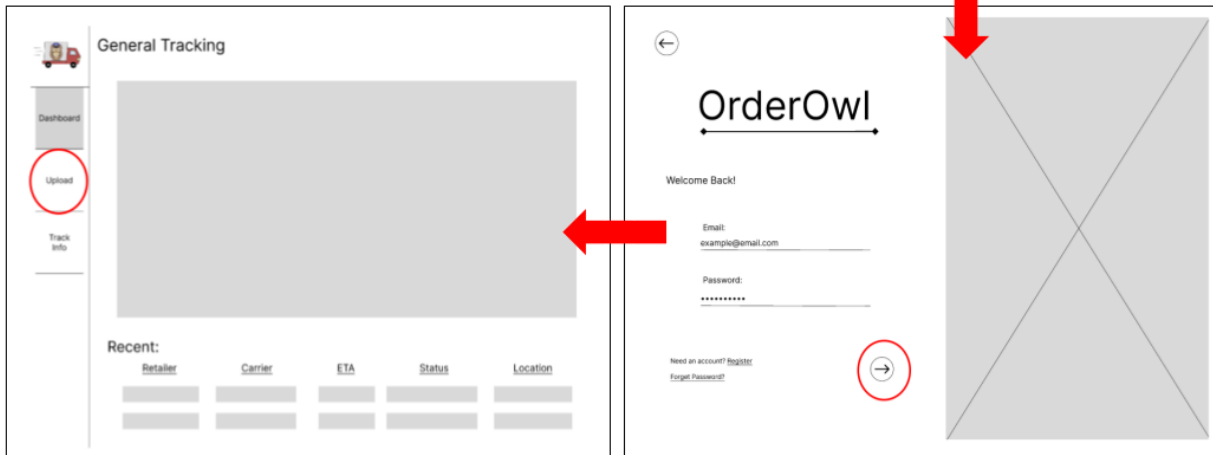




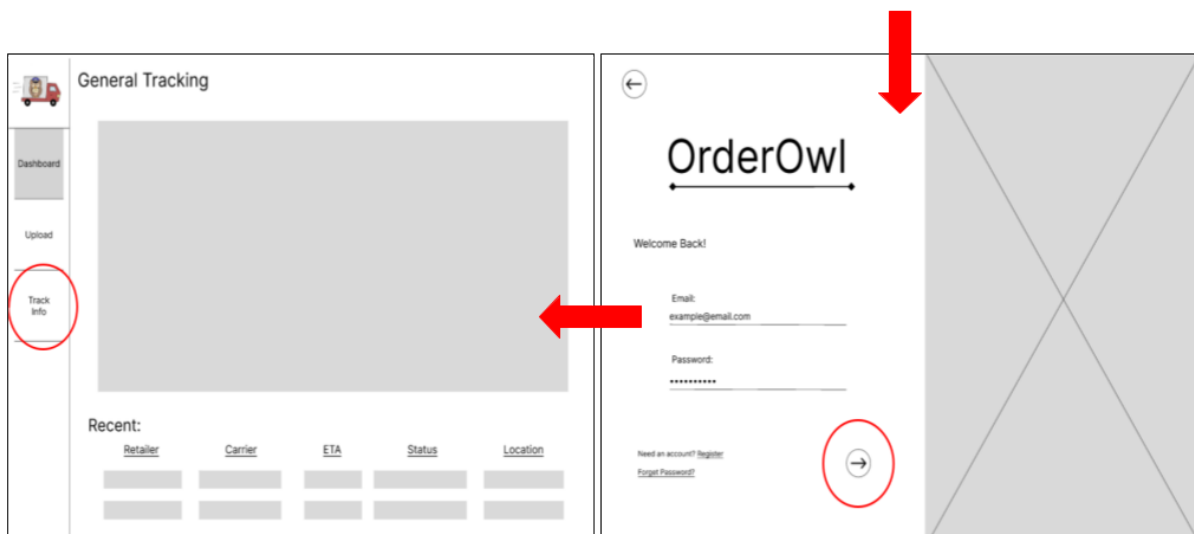
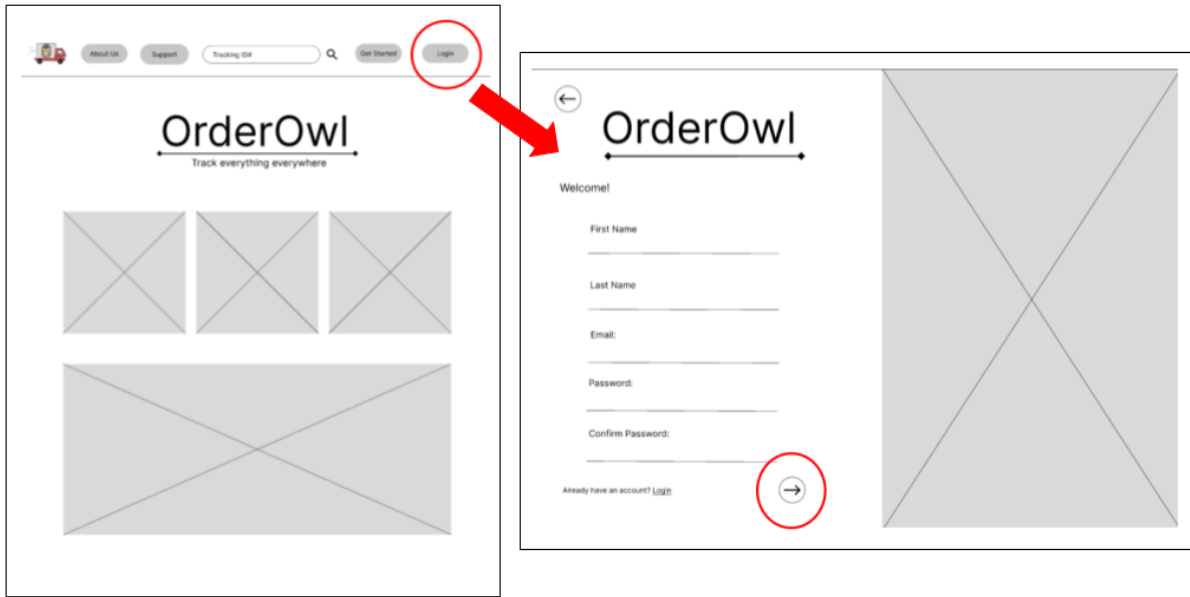


**Use Case 5:**





**Use Case 6:**





## New Tracking Info

Dashboard

Upload

Track  
Info

Tracking #

123456789012



Retailer

Carrier Info



## New Tracking Info

Dashboard

Upload

Track  
Info

Tracking #

123456789012



Retailer

Carrier Info

eBay

FedEx





Recent:

Dashboard

Upload

Track Info

Retailer	Carrier	ETA	Status	Location	Address
eBay	FedEx	Oct. 12 2023	Packaging	LA Sorting	
eBay	USPS	Oct. 27 2023	Packaging	NY, USA	
Amazon	Amazon	Oct. 14 2023	Shipped	SF Sorting	



Dashboard

Upload

Track Info

## MORE INFO

**Basic Info:** #123456789012

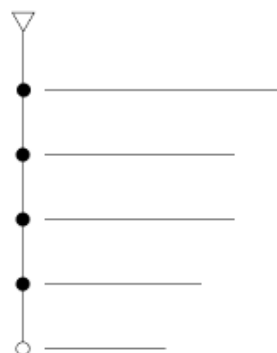
**Retailer:** eBay

**ETA:** Oct. 12, 2023

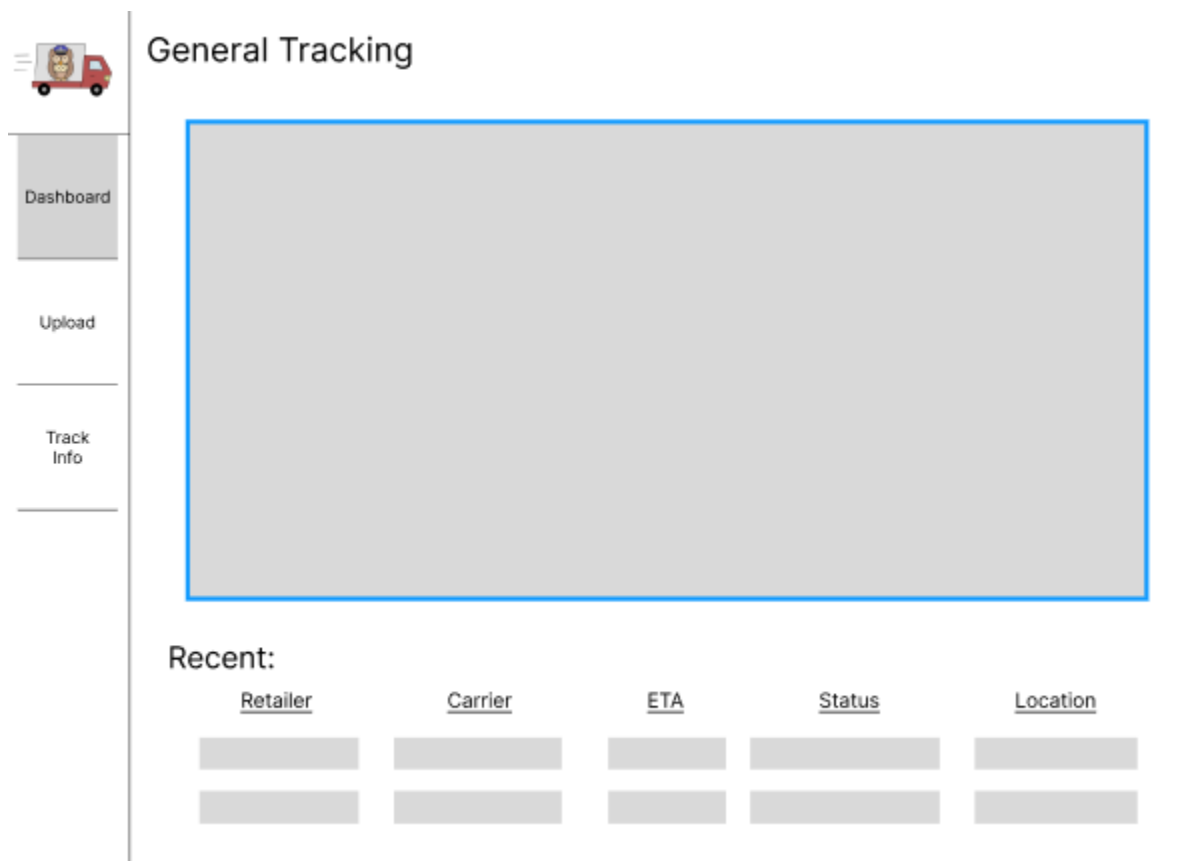
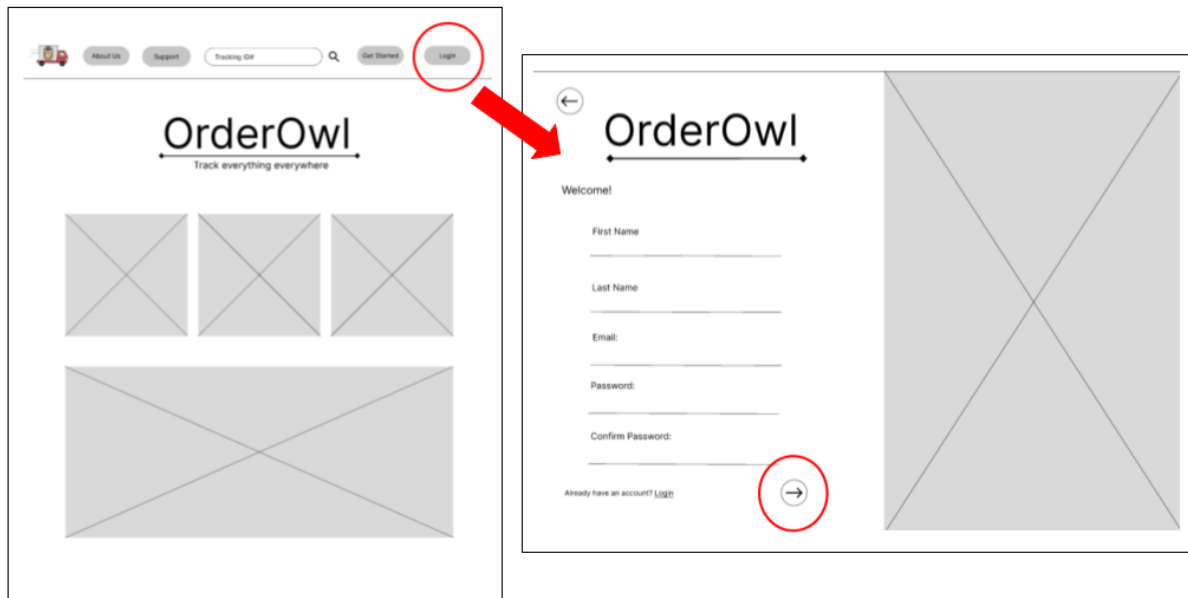
**Carrier:** FedEx

**Status:** Packaging

**All Update:**



## Use Case 7:







## New Tracking Info

Dashboard

Upload

Track  
Info

Tracking #

123456789012



Retailer

Carrier Info



## New Tracking Info

Dashboard

Upload

Track  
Info

Tracking #

123456789012



Retailer

Carrier Info

eBay

FedEx





Recent:

Dashboard

Upload

Track  
Info

Retailer	Carrier	ETA	Status	Location	Address
eBay	FedEx	Oct. 12 2023	Packaging	LA Sorting	
eBay	USPS	Oct. 27 2023	Packaging	NY, USA	
Amazon	Amazon	Oct. 14 2023	Shipped	SF Sorting	



Dashboard

Upload

Track  
Info

## MORE INFO

**Basic Info:** #123456789012

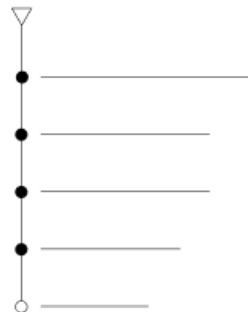
**Retailer:** eBay

**ETA:** Oct. 12, 2023

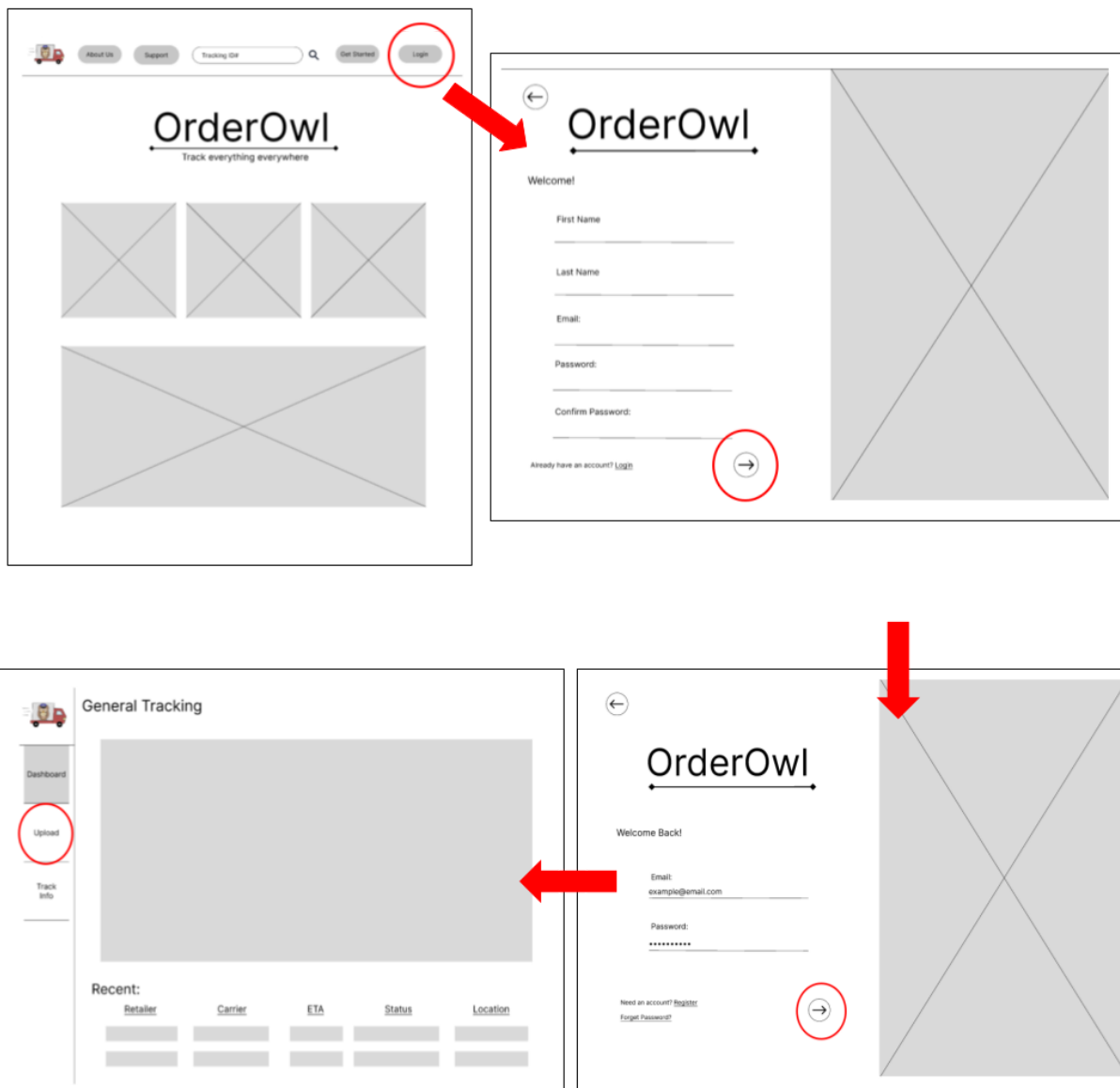
**Carrier:** FedEx

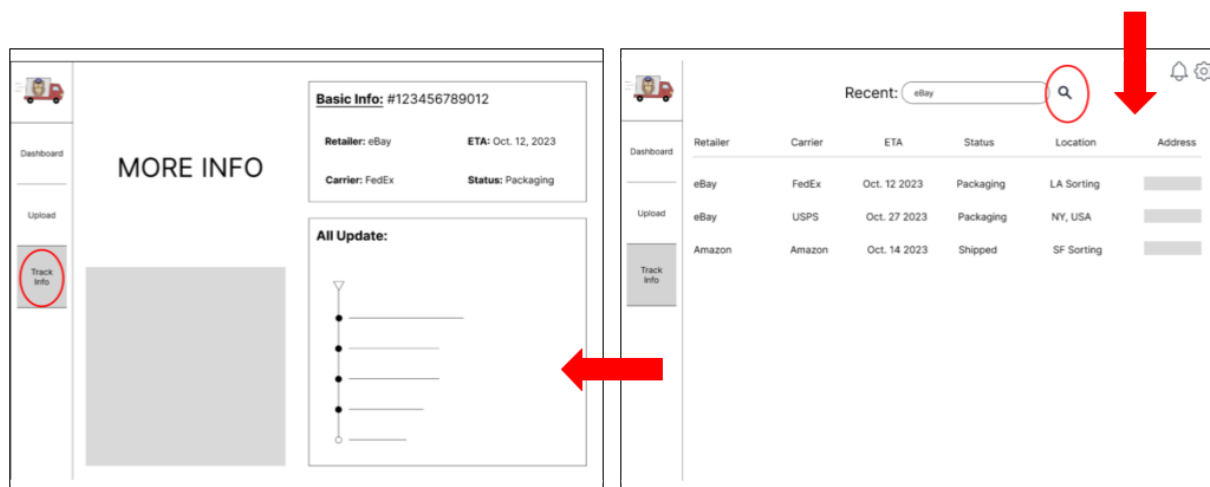
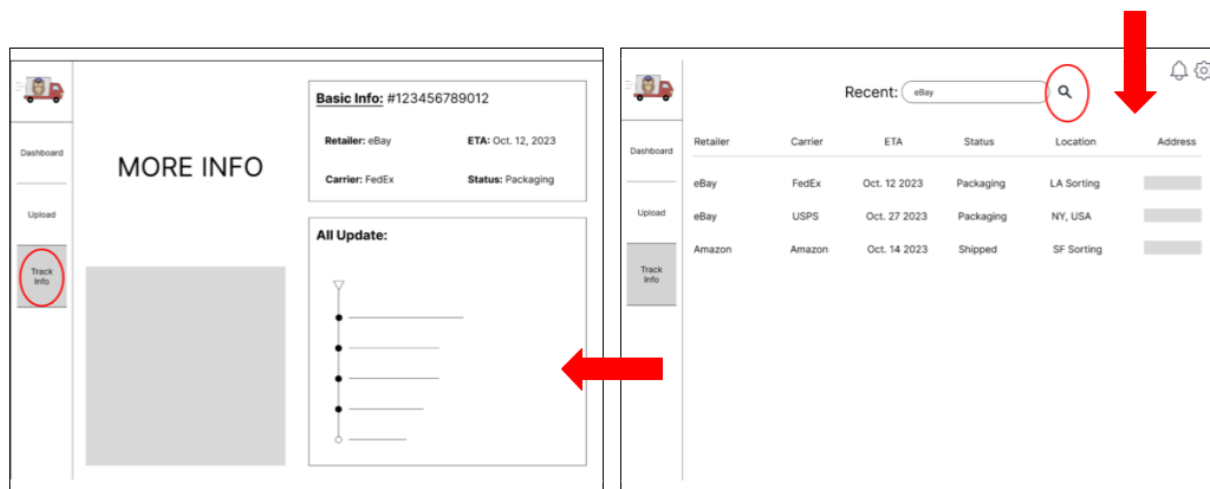
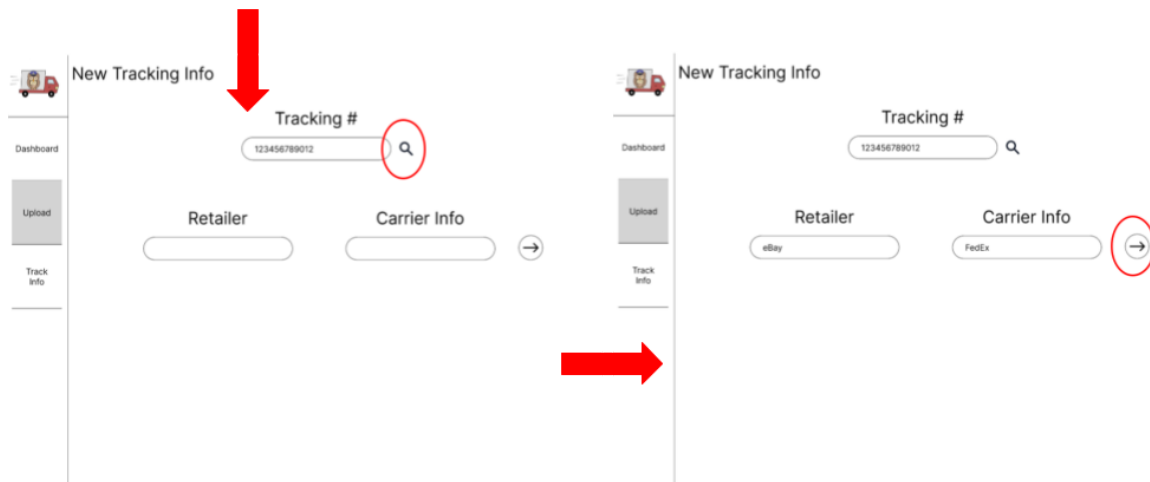
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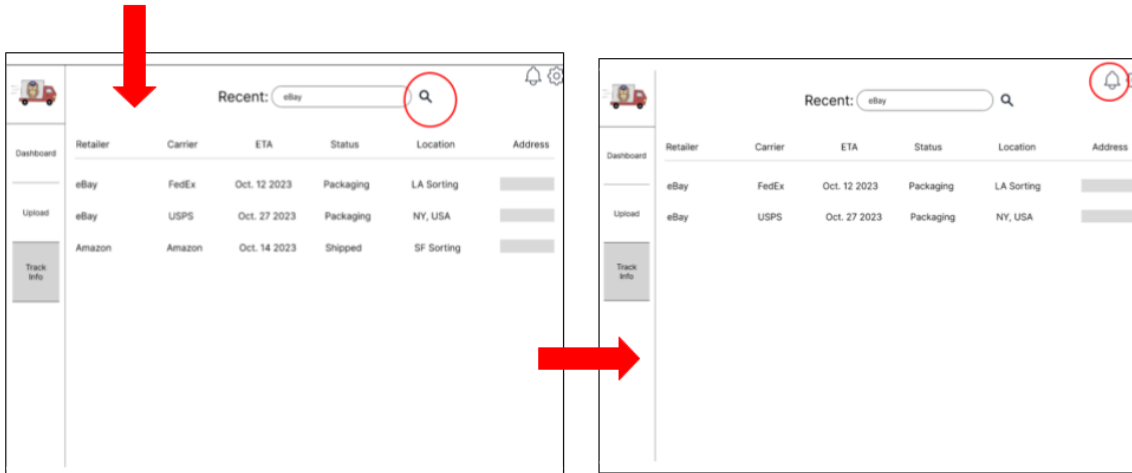
**All Update:**



## Use Case 8:







← Back

Notifications

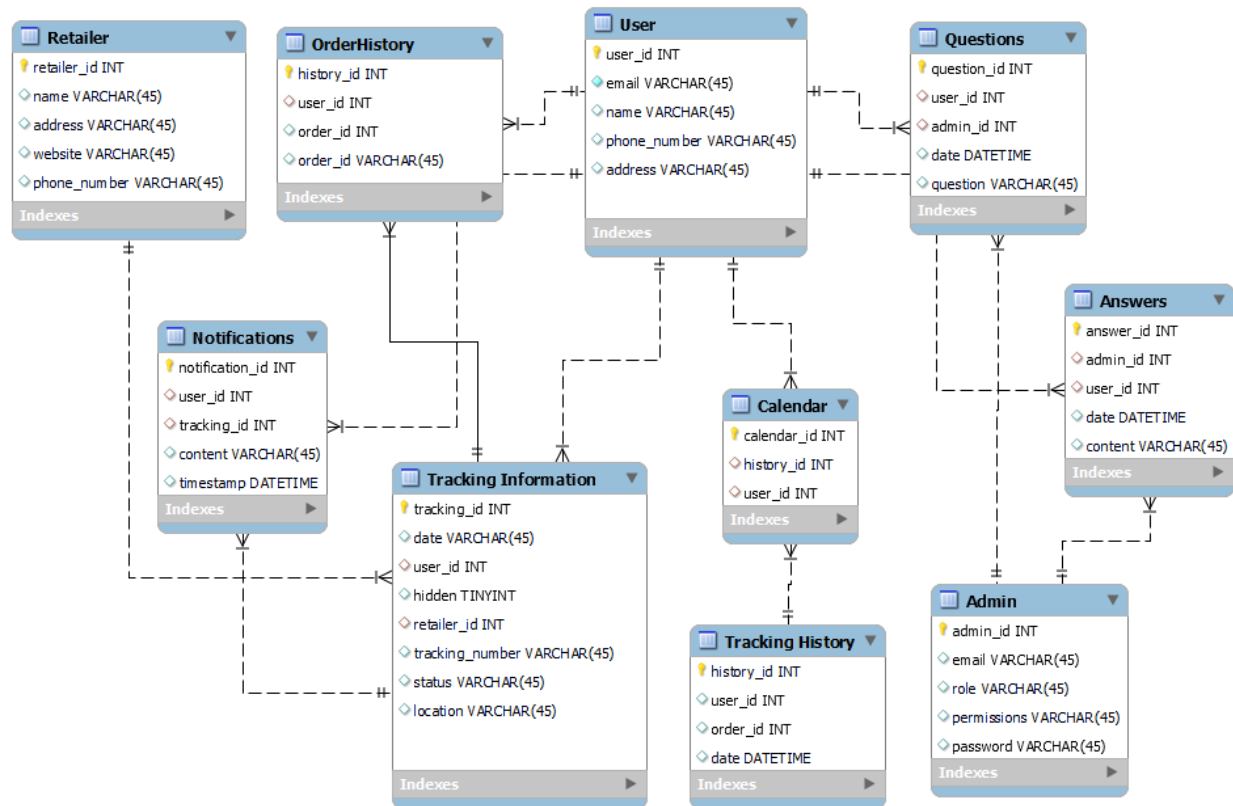
Shipped from:	Amazon Warehouse	#00000000
Arriving Today:	Amazon	#00000000
ETA (Updated):	Oct. 12, 2023	#00000000
Newly Added:	#00000000	ETA: Oct. 14, 2023 Amazon

Dashboard

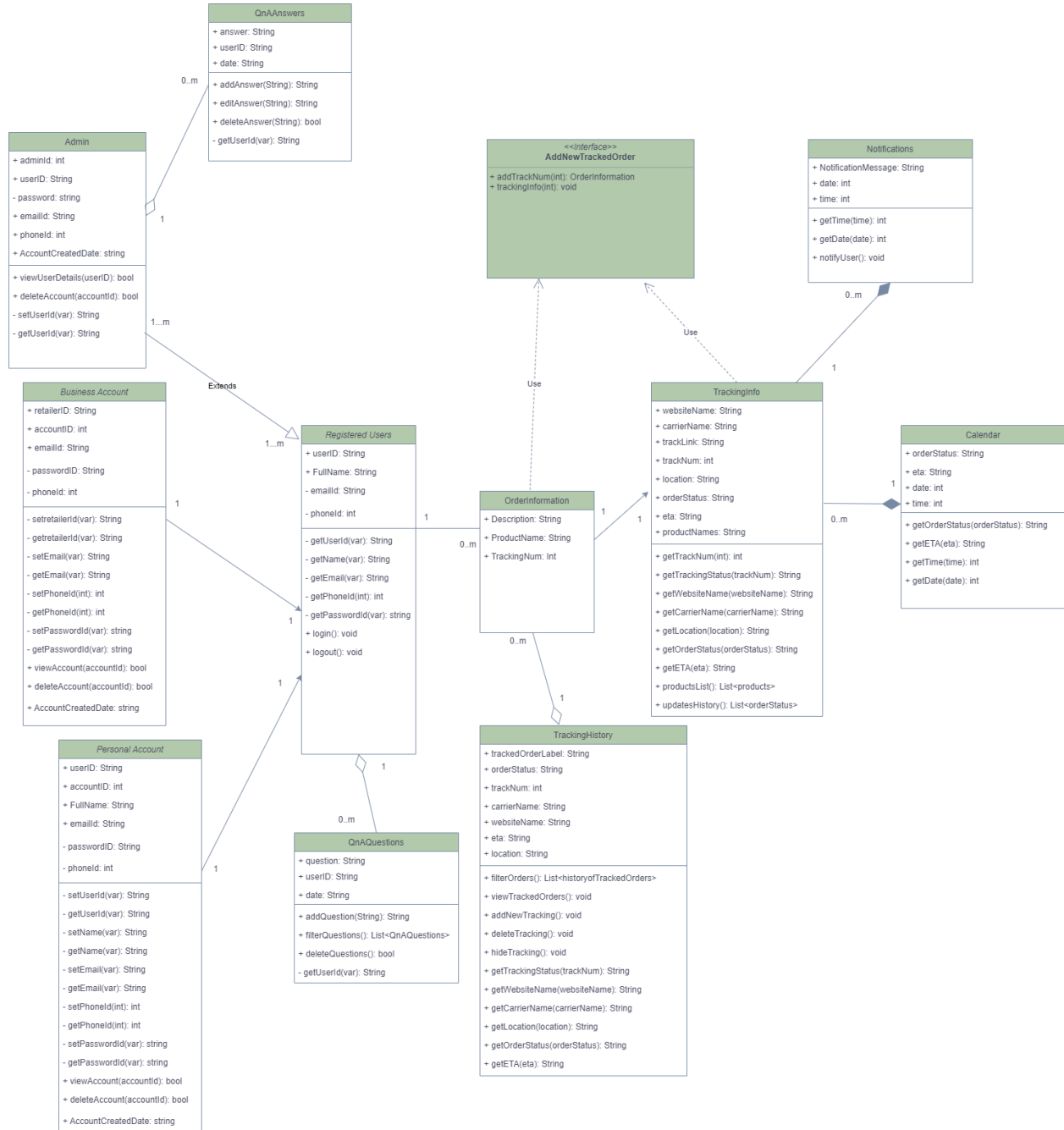
Upload

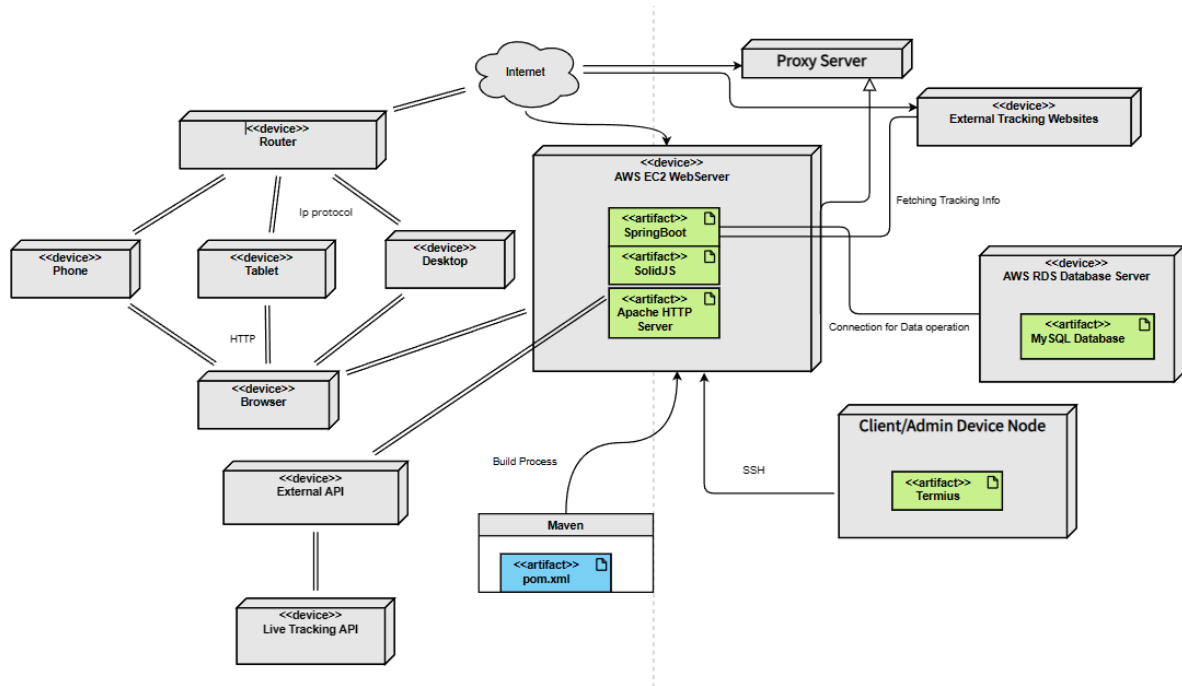
Track Info

#### IV. High Level Database Architecture and Organization:



## V. High Level Diagrams:







## VI. Detailed List of Contributions:

### Team Lead:

Team Members	Contribution	Score
Belu Velazco	<ul style="list-style-type: none"><li>• Revised section 6 from M2V1 to M2V2</li><li>• In charge of section 5 on M3</li><li>• Took notes from use case 8 to report back to team and notify what our application needs</li><li>• Actively participated and communicated</li><li>• Hosted and led all team meetings</li><li>• Created report summaries for all weekly meetings</li><li>• Set internal deadlines</li><li>• Checked in with the team and reminded about deadlines</li><li>• Revised and completed section 2 for M2V2 and completed M3</li><li>• Held and called for emergency meeting when needed</li><li>• Attended and signed up for office hours for the team</li><li>• Assigned tasks to team members</li><li>• Gave feedback for the entire M2V2 documentation and checked with each section requirements.</li><li>• Edited and updated cover page and table of contents page for M3 documentation.</li><li>• Worked on the</li></ul>	8

	<p>notification center for the front-end.</p> <ul style="list-style-type: none"> <li>• Edited and formatted section 3 wireframes</li> <li>• Set up a submission email.</li> </ul>	
David Lien	<ul style="list-style-type: none"> <li>• Revised part of section 4 from M2V1 to M2V2</li> <li>• In-charge of section 4 on M3</li> <li>• Took notes from use case 7 to report back to team and notify what our application needs</li> <li>• Actively participated and communicated</li> <li>• Joined and participated in all weekly meetings except for 1, but communicated that they couldn't come ahead of time</li> <li>• Joined and participated in all class meetings</li> <li>• Actively participated and communicated during an emergency meeting.</li> <li>• Worked on the back-end of the prototype.</li> </ul>	9
Komaldeep Kaur	<ul style="list-style-type: none"> <li>• Worked on the revisions for section 2 for M2V2</li> <li>• Worked on section 2 for M3</li> <li>• Worked on mockups/storyboards for use cases 1-4 for section 3 from M2V1 to M2V2</li> <li>• Took notes from use case 3 and 4 to report back to team and notify what our application needs</li> <li>• Actively participated and communicated</li> </ul>	7

	<ul style="list-style-type: none"> <li>• Joined and participated in all weekly meetings</li> <li>• Joined and participated in all class meetings except for 1, but communicated that they couldn't come ahead of time</li> <li>• Actively participated and communicated during an emergency meeting.</li> <li>• Edited MS and M2V2</li> <li>• Worked on the front-end of the prototype.</li> <li>• Formatted documents.</li> </ul>	
Jimmy Pan	<ul style="list-style-type: none"> <li>• Worked on mockups/storyboards for use cases 5-8 for section 3 from M2V1 to M2V2</li> <li>• Took notes from use case 5 to report back to team and notify what our application needs</li> <li>• In charge of section 3 use cases 5-8 on M3</li> <li>• Participated</li> <li>• Joined and participated in all in-class and weekly team meetings</li> <li>• Actively participated and communicated during an emergency meeting.</li> <li>• Worked on the front-end of the prototype regarding formatting, the settings page, guest popup, registration validation, linked tracing with backend, and other components.</li> </ul>	7
Mankit Yeung	<ul style="list-style-type: none"> <li>• Revised section 7 from M2V1 to M2V2</li> <li>• In charge of section 3 use cases 1-4 on M3</li> </ul>	9

	<ul style="list-style-type: none"> <li>• Took notes from use case 1 to report back to team and notify what our application needs</li> <li>• Actively participated and communicated</li> <li>• Joined and participated in all weekly team and in-class meetings</li> <li>• Actively participated and communicated during an emergency meeting.</li> <li>• Met all internal deadlines</li> <li>• Worked on the front-end of the prototype.</li> <li>• Worked on section 5 on M3</li> <li>• Formatted MS and M2V2</li> <li>• Helped set up wireframes for section 3.</li> </ul>	
Luis Ramirez	<ul style="list-style-type: none"> <li>• Revised section 1 from M2V1 to M2V2</li> <li>• In charge of section 1 on M3</li> <li>• Took notes from use case 6 to report back to team and notify what our application needs</li> <li>• Actively participated and communicated</li> <li>• Joined and participated in all weekly team and in-class meetings</li> <li>• Actively participated and communicated during an emergency meeting.</li> <li>• Met all internal deadlines.</li> <li>• Worked on the back-end of the prototype.</li> <li>• Tested all use cases.</li> </ul>	9

Tin Nguyen	<ul style="list-style-type: none"> <li>● Revised parts of section 4 and 7 from M2V1 to M2V2</li> <li>● Took notes from use case 2 to report back to team and notify what our application needs</li> <li>● Actively participated and communicated</li> <li>● Joined and participated in all class meetings</li> <li>● Actively participated and communicated during an emergency meeting.</li> <li>● Worked on the back-end of the prototype.</li> <li>● Worked on section 5 on M3</li> <li>● In charge of section 4 on M3</li> </ul>	9
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