SW Engineering CSC648-848-05 Fall2023

OrderOwl

Team 06

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Milestone 1

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History Table:

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

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I. Executive Summary

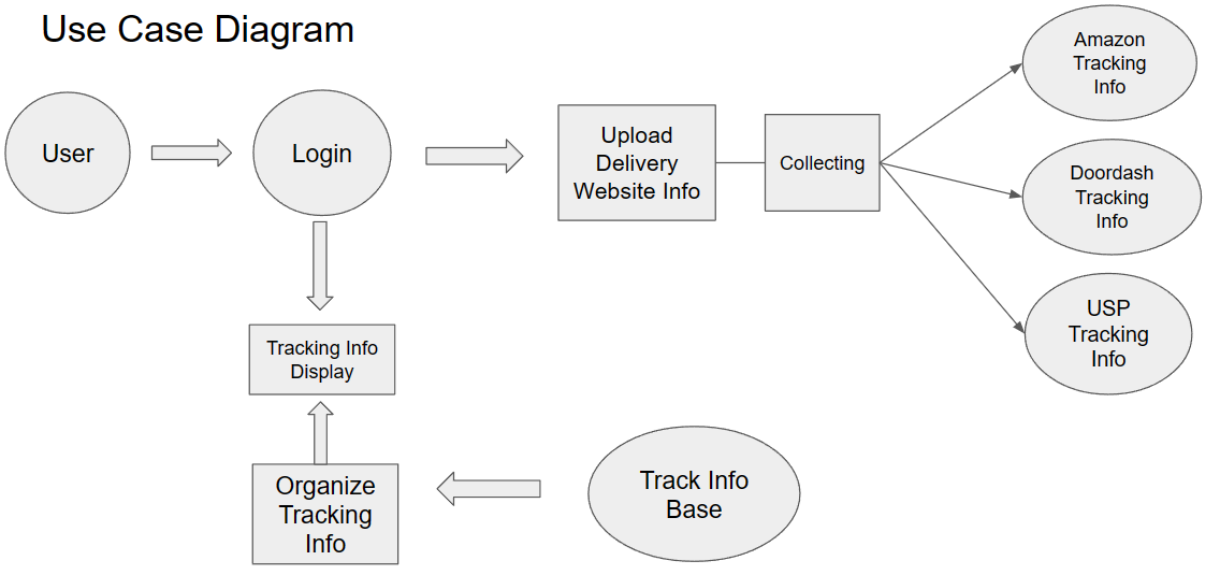
"OrderOwl: Delivering Peace of Mind, One Package at a Time." Our motto emphasizes the comfort and assurance that OrderOwl provides to its clients by delivering packages reliably and protecting their data. Order owl is a revolutionary tracking solution that streamlines and simplifies the process of monitoring and managing various aspects of your life or business. Our comprehensive application combines multiple tracking functionalities into a single, user-friendly platform, empowering users to efficiently track, analyze, and optimize their activities, assets, and data.

With the rise of online shopping, keeping track of orders from various websites has become increasingly challenging. While you can manually track your orders yourself, why should you deal with the hassle of visiting every website you ordered from to check the status of your package, when you could just use our application? OrderOwl aims to provide an all in one tracking service for our users' packages. Our team has personally experienced the tedious process of keeping note of every site that we've shopped on, and checking each website or our emails for updates on our orders. Questions like "Has it been sent yet?" or "Where is our package right now?" or "Has the expected delivery date changed?" can be answered effortlessly through OrderOwl. It'll keep note of all their online orders in one convenient and organized place, where each order will have real-time tracking updates. This will result in users having an easier time staying updated on packages, causing them to never miss a delivery date.

We firmly believe we need an application like this in the market because there are very few of the same type and the experience we do have with these apps have more or less drawbacks. Our product distinguishes itself by learning from the strengths and weaknesses of other competing products and building on top of them to deliver a superior user experience.

What our website will do and how it will help our users will consist of keeping track of all their online orders in one dashboard with the addition of real time tracking, and customization for users to further organize themselves if they so desire. To further assist our clients, data regarding shipment and tracking will be stored in our database for a maximum of two years. As for personal information regarding payment information and any additional information needed from the user will all be encrypted to ensure data privacy. Privacy and data security are our top priorities, we want to ensure that all our users feel safe using OrderOwl.

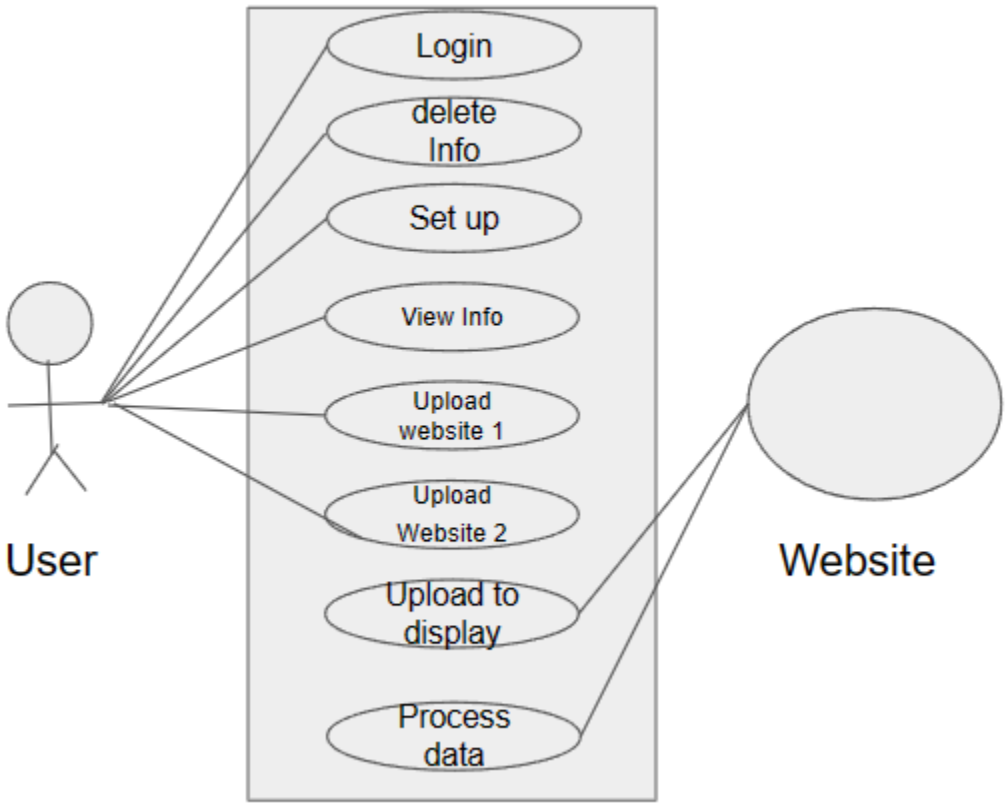
II. Main Use Cases:



Case 1: General User, Middle age man business rely on internet

Use case: Second in his family, when Alex was in college the internet had just shown its charm and he was hooked. He is a purchasing agent. What he does is he will buy stuff that is in another country and bring it back and sell it so he travels a lot and online shopping is one of his helpers. He would start ordering the commodity he needs to bring on ahead of time and if some commodity can't be ordered online he will go to the store and buy it. This way saves him a lot of time and money as well because in this way he knows exactly how many days he will stay there so it saves him on his expense and being able to do more business in a period of time. This means a website that collects all his order tracking info would be a big help.

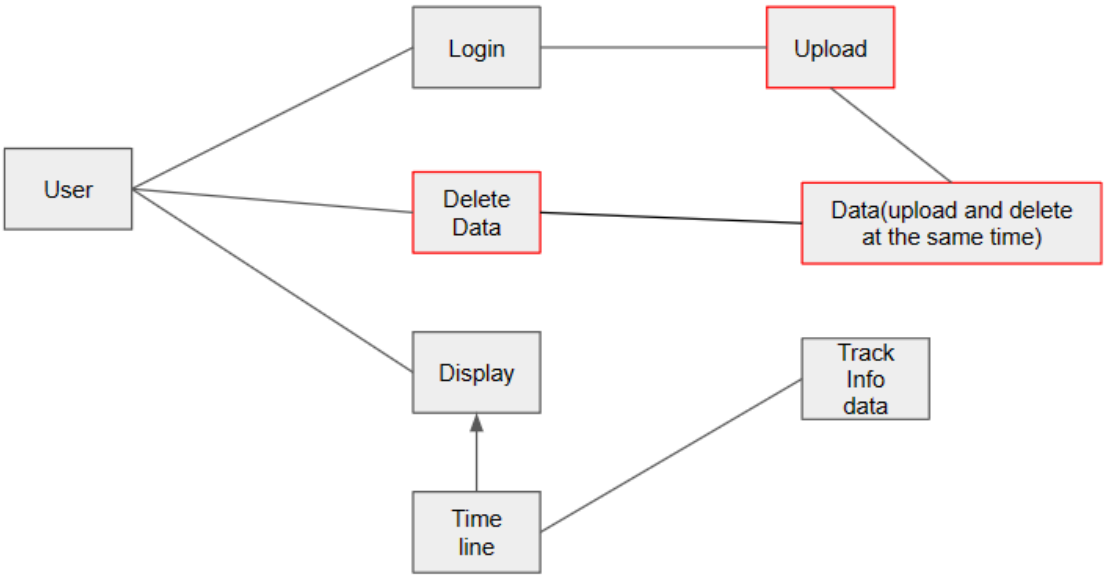
Use Case Diagram



Case 2: General User, Store manager, Shopping for store needs.

Use case: James is a store manager of a big liquor store. In his store he sells more than just alcohol. The store also sells juice, fresh products and candy but since it's not the main seller of the store he has to order all the items from different places. Due to the problem of not coming from the company website it creates a lot of problems for his store inventory.James has a lot of deliveries coming from different websites everyday either from company shipping or other online service and it's been difficult to keep track of all the orders since there are simply too many of them. He is looking for a product that puts all the order tracking information into one site so he can easily manage it. The website will collect his order info and he should be able to delete the track info they don't want to see.

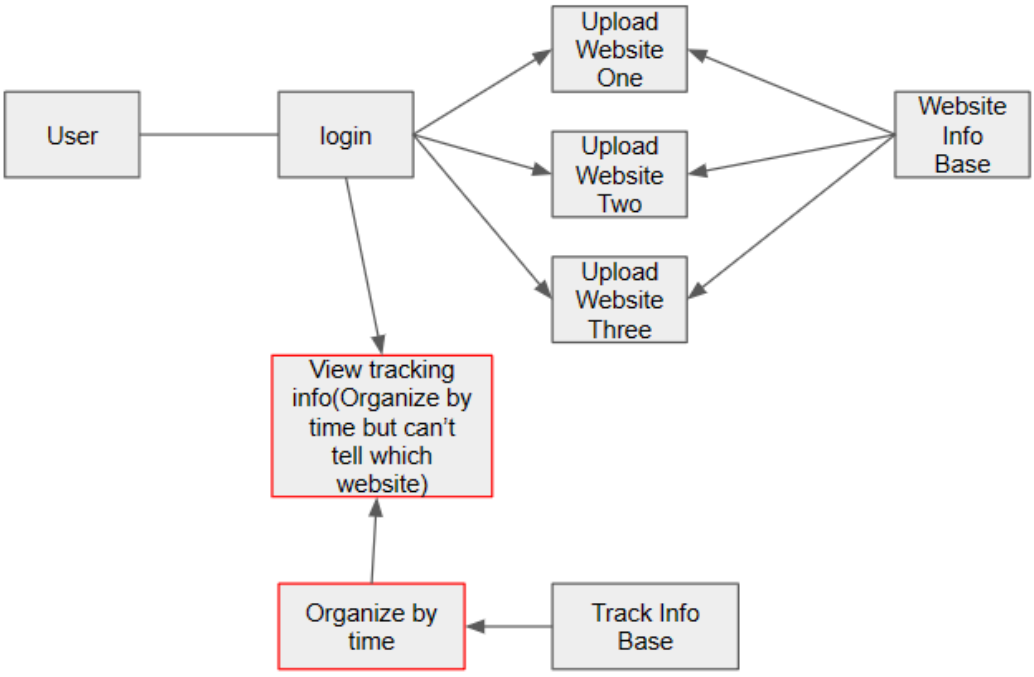
Use Case Diagram



Case 3: General User, 70 year old man getting order from son and daughter.

Use case: Bruce is a 70 year old man and has 5 children and a lot of grandchildren. His children and grandchildren love him very much and because of the distance between each other they can't visit him very often so the way they express their love is buying stuff online and sending it to him. Bruce likes to plan his schedule ahead so he needs to know when stuff is delivered so plan ahead but since he is not familiar with technology and there are too many websites for him to check. The experience has been good so far therefore he desperately needs a better way to handle it. System would show his order when he input the delivery website info.

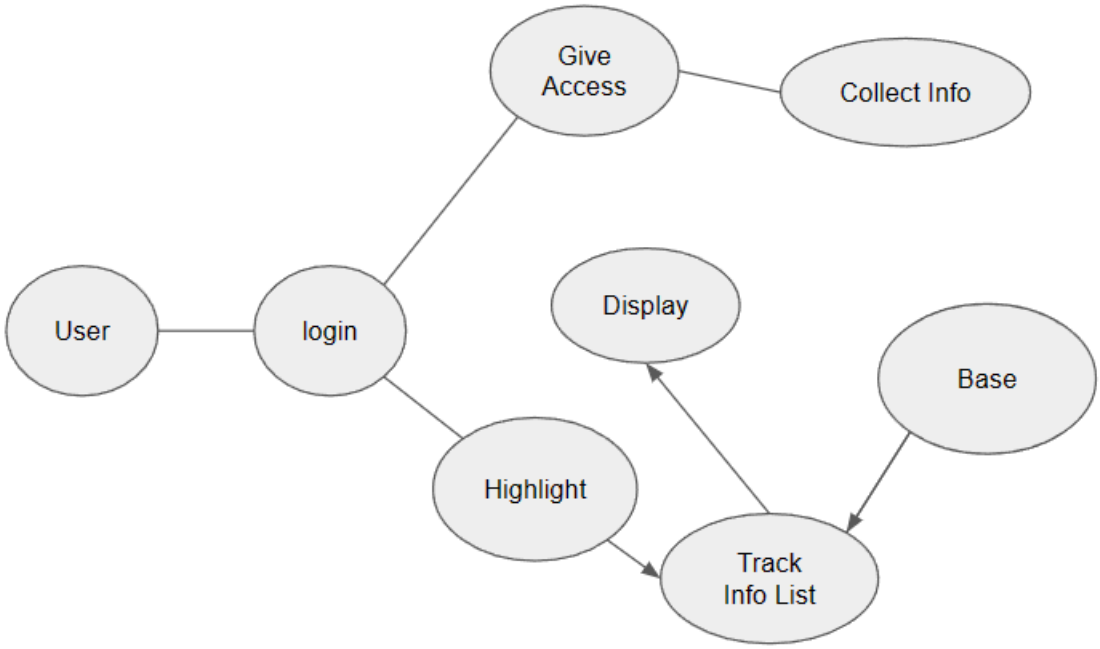
Use Case Diagram



Case 4: General User, 25 year old business woman does not have much free time.

Anna is a business woman and her schedule is always packed. She is very busy everyday so she does not have time to do in store shopping or cooking. Inorder to fulfill her needs she orders supplies, groceries and takeout online everyday. Since she is a very busy woman, she does not have much free time and that's why she orders things online a lot but lately she feels ordering online doesn't help her a lot because just to keep track of her order information has taken too much of her time even though she is familiar with modern technology. She wants something that could save her valuable time. This app would organize it by time difference.

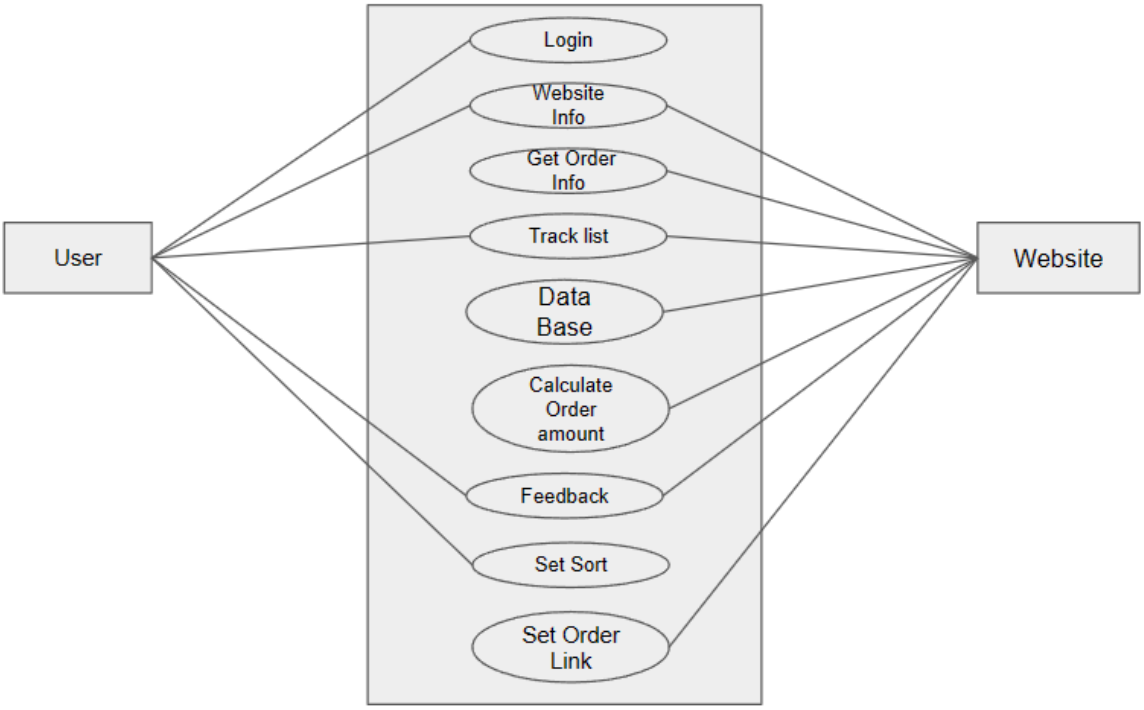
Use Case Diagram



Case 5: General User, Transshipment warehouse manager, deals with orders every single day.

Use case: Kyle works at an international shipping company as a transshipment warehouse manager. His company mainly takes orders from one country and sends them to the world. Since his job is transshipment warehouse manager, he would order from all kinds of websites and the number of orders could be large. His company already has a website that can track orders but it is not efficient enough. The order information lists are not organized and the web page design is not concise, all the websites get mixed into one list which makes his job very difficult. He is looking for a better product to replace it. When uploading the delivery website Info it should say which is which. User can highlight the Track Info

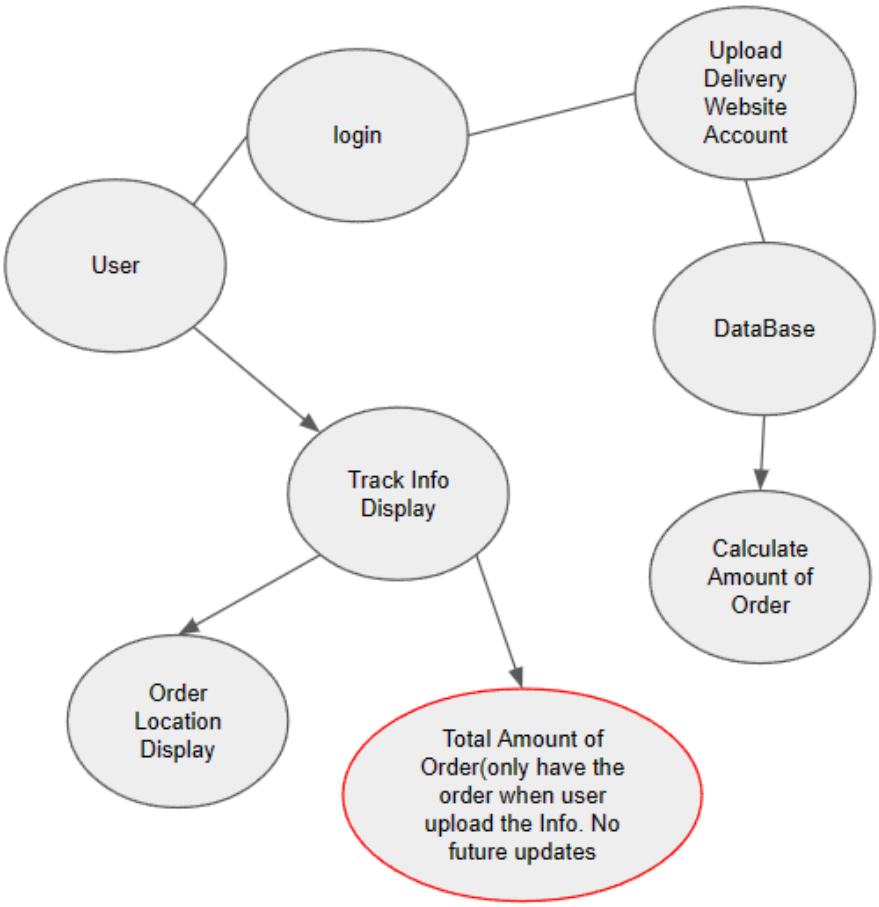
Use Case Diagram



Case 6: General User, Regular teenage shopper

Use case: Kaly is a 17 year old teenage girl who knows how to use the internet. She loves to dress up and everyday before leaving the house she will spend a lot of time on makeup to make sure to show her best side.This means she has great shopping needs like dress, shoes and makeup. On a regular time she would go shopping with her friend and enjoy the fun of it but due to the pandemic she can't do that while she still needs to leave the house for school so she starts purchasing goods online. Since there are a lot of things she needs and she can't always buy it on one website, she had multiple websites to do that. During the experience she had to open each website and see her order tracking Info and to her it is very cumbersome. She wants something that can help her to improve the experience. It would provide the total amount of orders she has. Provide a link to the original website when clicking on the order also she will be able to give feedback to improve the experience.

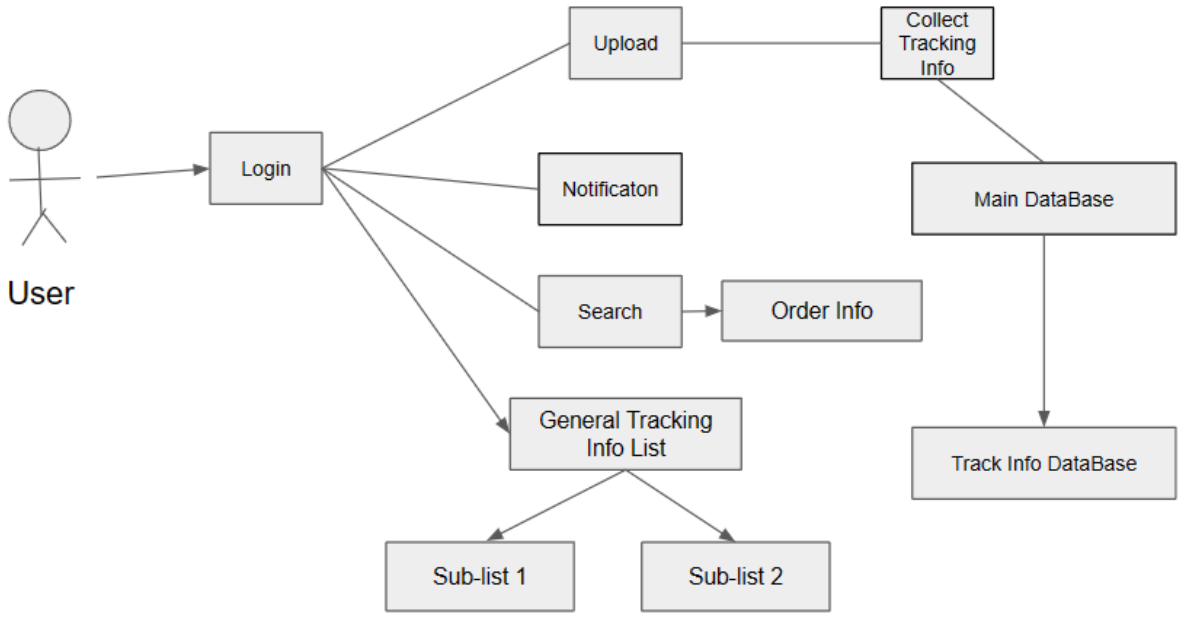
Use Case Diagram



Case 7: General User, 62 year old stay home wife

Use case: Molly is a very frugal person. In her life she has many hobbies but there is one that catches her heart the most and that is cooking. Growing up she loves to cook and many years later it hasn't changed. Since she is a very frugal person she will go to all the those website to buy ingredients when they are on sell only problem is she doesn't how to use it so she always had her daughter or son to help her do it but when they are not home and she need to check the status for her order it gets very painful. She would spend hours of her time trying to solve it but got nowhere so she wished there was something that could help her with it.
This application would collect all her order info once she input it. Count how many websites in total. It will be able to see the order location and where it go.

Use Case Diagram



Case 8: General User, College student

Use case: As a person who grew up in the Internet era, John is very comfortable using the Internet. As a college student, he shared a house with two other friends. It happened that they were not people who liked outdoor sports. They liked to stay at home and play games in their spare time, so he often went online to purchase the supplies the three of them needed because of their different needs. He needs to go to different websites to make purchases, and even though he is very familiar with using the website, the cumbersome logistics check makes him impatient after all. He wants to find an app that can collect all the logistics information for him so that he doesn't have to look for it one by one. Able to search order by entering tracking number. One time upload only. It will have a Notification function also it will have a sub-list, for example inside the order list it will have an amazon order list, doordash order list and so on.

III. Main Terms, Entities, and Data Structures

a. **User login (password, username, email, phone number) (UserId, userpswd, userEmail,)**
We will need to store our user's information in our database in order for them to have all of it saved with us. This also allows them to log in whenever they need to check their orders. All this information will be encrypted so all of the information would be difficult to get from anyone. We will be using let's encrypt to keep all this text encrypted.

b. **Tracking numbers and links (trackNum, trackLink)**
A lot of the websites we're working with either have 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.

c. **Amount of orders**
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.

d. **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.

e. **Privacy (Amount of attempted logins?)**
We shall include private information in our database that also needs to be encrypted like the passwords of our users.

f. **Location**
Users shall be able to see where their package is at and where the package is going to.

g. **Order Category**
The orders shall have a category depending on the item they ordered. For example whether it was clothing, electronics, or food.

h. **Amount/Transaction**
On the orders, the user should be able to see how much they've spent on the item they've ordered.

i. **Order Information**
Users shall see the details about the item they've ordered from the website.

j. **Deleted Orders**
Users shall have the option of deleting their past orders in case they don't need it anymore. The software shall store the deleted orders in case for about 7 days and delete them permanently after.

k. **Supplier/Website**
We shall be using information from our suppliers and other websites to provide the most information to our users on their orders.

l. **Updates**
We shall inform our users of our rolled out updates to keep them updated on what is new.

m. **Notifications**
Users shall receive notifications about their order status and when it arrives so they won't miss anything.

n. **Customer Support Tickets**
In case a customer has any questions or has any problems, they can start a support ticket with us and we will respond back to them in a timely manner.

o. **Customer Reviews**
When a user orders an item we shall gather information from the website they ordered form including the reviews. This shall allow our users to keep an eye on the product if it is good or not.

p. **Data from our customers**
We shall collect data from our customers in order to ensure the best experience for our users.

q. **Administration**
We shall be able to login to our administrative accounts in order to do some testing with features that haven't come out yet.

r. **Recommendations**
From the data we collect from our users, we shall give them recommendations of what they might order next.

s. **Order Status**
   Our users will have an updated status of their package. This will tell them the time and location of the item.

t. **Return/Refund**
   If by any chance our user needs to return or refund an item they've ordered. There will be an option for them to choose this, it will send them to the suppliers website where they can start a return process.

u. **Refund Status**
   Once the user starts a refund, they shall be able to track the item if they need to ship it back.

v. **Messages**
   Our users shall send developers messages in order to help them out with a problem they might have.

w. **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 software in case they have any doubts of how to use something.

x. **Payment Status**
   Some of our users might choose the option of paying monthly or weekly. We shall also keep them updated whether their next payment is coming up or if they payment went through already. This could also notify our user if the payment was successful after they've bought something.

y. **Links to Suppliers**
   We shall include helpful links that send our users to the suppliers website in case they need help from their end or they need to order again.

IV. Functional Requirements

User

1.1 User shall be able to track all their packages with tracking information

1.2 User shall be able to add tracking information

1.3 User shall be able to delete tracking information

1.4 User shall be able to login

1.5 User shall be able to create an account

1.6 User shall be able to delete their account

1.7 User shall be able to update their profile information

1.8 User shall be able to recover password

1.9 User shall be able to log in to access their tracking information

1.10 User shall be able to see their history of completed tracked orders.

1.11 User shall be able to hide tracking history

1.12 User shall be able to print tracking history

1.13 User shall be able to save their tracking history into a file

1.14 User shall be able to filter their tracking information

1.15 User shall be able to sort their tracking information

1.16 User shall be able to receive email notification of tracking updates

1.17 User shall be able to write a product review

1.18 User shall be able to submit a ticket for help

1.19 User shall be able to send a message

1.20 User shall be able to receive a message

1.21 User shall be able to delete a message

1.22 User shall be able to view messages

1.23 User shall be able to delete a product review

1.24 User shall be able to edit a product review

1.25 User shall be able to view a product review

1.26 User shall be able to rate a product review

1.27 User shall be able to create a family account

1.28 User shall be able to become part of a family account

Businesses

2.1 Businesses shall be able to track their own packages

2.2 Businesses shall be able to register and create an account

2.3 Businesses shall be able to manually add tracking information

2.4 Businesses shall be able to delete tracking information

2.5 Businesses shall be able to upload their tracking information

2.6 Businesses shall be able to update their tracking information

2.7 Businesses shall be able to log in to access their tracking information

2.8 Businesses shall be able to view their tracking history

2.9 Businesses shall be able to hide tracking info

2.10 Businesses shall be able to print tracking history

2.11 Businesses shall be able to save their tracking history as a file

2.12 Businesses shall be able to filter their tracking info

2.13 Businesses shall be able to sort their tracking info

2.14 Businesses shall be able to send a message

2.15 Businesses shall be able to receive a message

2.16 Businesses shall be able to write a user review

2.17 Businesses shall be able to delete a user review

2.18 Businesses shall be able to view a user review

2.19 Businesses shall be able to edit a user review

2.20 Businesses shall be able to rate a user review

Admin

3.1 Admin shall be able to access all data

3.2 Admin shall be able to modify any data

3.3 Admin shall be able to suspend any account

3.4 Admin shall be able to create any type of account

3.5 Admin shall be able to send a message

3.6 Admin shall be able to view another account

3.7 Admin shall be able to create a log

3.8 Admin shall be able to view logs

System

4.1 System shall be able to collect traffic data

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

4.4 System shall be able to analyze traffic data

4.5 System shall be able to recommend businesses

Messages

5.1 Messages shall be able to be sent

5.2 Messages shall be able to be received

5.3 Messages shall be able to be stored

5.4 Messages shall be able to be viewed

5.5 Messages shall be able to be replied to

5.6 Messages shall be able to be deleted

Tracking Information

6.1 Tracking information shall be able to be stored

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

V. List of non-functional requirements

1. Performance:
   - 1.1. The system needs to smoothly handle a minimum of 1000 concurrent users without slowing down.
   - 1.2. Updates to tracking information should happen in real-time, with no more than a 5-second delay from the actual event.

2. Expected Load:
   - 2.1. The system should be prepared to manage a 50% increase in traffic during peak shopping seasons (like Black Friday and Cyber Monday).
   - 2.2. Even during high traffic periods, users shouldn't experience response times exceeding 2 seconds

3. Security:
   - 3.1. Users' personal data shall be safeguarded through stand encryption protocols.
   - 3.2. Only authorized personnel should access sensitive data.
   - 3.3. To stay secure, systems shall have regular security audits and penetration tests to spot and fix vulnerabilities to further validate the safety and protection of the client’s data.

4. Storage:
   - 4.1. The system should be capable of storing tracking information for a minimum of 2 years, which is essential for historical reference and auditing.
   - 4.2. As data grows, we should have adaptable storage solutions to accommodate it.

5. Availability:
   - 5.1. Users shall be able to access the system at least 90% of the time.
   - 5.2. In case of server or data center failures, the system shall have backup plans (failover mechanisms) to ensure uninterrupted service.
6. Fault Tolerance:
   - 6.1. System should have automated backup and disaster recovery processes in place.

7. Usability:
    7.1. System’s user interface that's intuitive and easy to use for both customers and shipping personnel.

8. Compliance:
    8.1. System shall follow all shipping regulations and laws of any place of operation.
    8.2. Regular checks and updates will ensure ongoing compliance.

9. Logging and Monitoring:
    9.1. System shall keep comprehensive logs of system activities for auditing and debugging purposes.
    9.2. Real-time monitoring tools will provide insights into system performance and health.
10. Platform/Browser Compatibility:
    10.1. Develop the application using web design that shall ensure usability on different platforms including devices
    10.2. OrderOwl shall be tested on multiple browsers and devices to confirm the compatibility of the application

VI. Competitive Analysis

Competitive Features Analysis

Feature/ Company	Route https://route.com/	ShopApp https://shop.app/	Pkge.net https://pkge.net/
Strength	- Simple UI but more filled & animated - Package protection - Percentage of money to reforestation - Previews a demo of what the app - Can sync with Amazon - Keeps track of all purchases when offline; no need to add tracking number - Tracks all previous orders and includes images available - Real time tracking	- Animated and simple UI - Presents hook as first thing user sees - Direct QR code to app to download - Real time tracking - Visual map tracking - Includes the return policy of each package tracking - Includes order receipt per tracking - Has their own payment method: Shop Pay - Has an AI search for users to find what they need. Acts like a personal shopper and searches for all possible purchasing options from all kinds of stores. - Previews a demo of what the app/works looks like	- Easy to follow UI - Shipping services from different countries - Tracks over 850+ carriers - Can add descriptions to tracked orders. - Visual map tracking - Add tracking the tracking number - Adds images to the products bought - Can receive email updates

Weaknesses	- Does not advertise their social media on their website - No option to track orders from social media sites such as Instagram, Facebook market, etc. - Limited actions and too simple on the website version. The best version would be the app.	- Does not advertise all their social media on their website. Only Instagram and Twitter - Advertises self more as a shopping site than a tracking site - No option to track orders from social media sites such as Instagram, Facebook market, etc. - Seems to advertise itself better via their app.	- Works better as an app than as a website - Little presence on social media - UI simple and not engaging - Have to add a tracking number in order to add it to your tracked orders instead of it connecting to your email to track orders.
Pricing	Free download	Free download	Free download
Social Media	- Instagram - TikTok - Twitter - Facebook	- Instagram - Twitter - TikTok - Twitter	- Instagram - Facebook
Onboarding Experience	Very easy to navigate around and is very minimalistic. Not difficult for a new user to pick up.	Easy to navigate and all the important buttons or information is highlighted perfectly. There's no overwhelming amount of information, and the website is very entertaining to explore. It has a nice color scheme as well; easy on the eyes. Website guides users to understand what their app does and then ends with QR code to download	When a user first appears on a website, the UI is very easy to understand and the main components seem to be the tracking number search bar, and the log-in/ register button. When scrolling down, it becomes more cluttered and overwhelming with a lot of text. Easy to navigate and minimalistic.
Feature/ Company	**Ship24** **https://www.ship24.com/shops**	**Parcels** **https://parcelsapp.com/**	

Strength	- Tracks shipping from 17 global shops, 9 N. American shops, 3 S./Central American shops, 9 European shops, 3 E. European shops, 6 Chinese shops, 7 Asian shops, 3 Oceania shops, 6 African shops, & 3 Middle E. Shops - Tracks from 66 different online shops - Live tracking updates - Beginner user friendly - Simple UI (few buttons/more explanations) - Notifications - Identify package delivery exceptions - Offers about 25 different language options	- Can track from 36 different online shopping websites - Over 50 different courier and postal services supported - Has an app - Just need tracking number and the app does the rest - Able to track with multiple carriers at once - Offers 9 different languages - Tracks deliveries from worldwide services - Previews a demo of what the app/works looks like.	
Weaknesses	- Cluttered UI when scrolling down the page - No option to track orders from social media sites such as Instagram, Facebook market, etc. - No demo of the actual product, ie the tracking dashboard, or example of how the interface look/works like - No social media presence.	- UI too busy. Especially when you start scrolling down - Seniors/people who lack casual-high tech experience will struggle to navigate themselves through the website - App a little too plain. Would need to read every package entry title to know what it is instead of an image - No social media advertised. - No option to track orders from social media sites such as Instagram,	

		Facebook market, etc. - If someone wants to look up a certain carrier, then they have to scroll through a whole list	
Pricing	Free for up to 3 packages a month but after that its $3.99-$1,199 depending on how many packages will be tracked per month. There are different plans.	Free download	
Social Media	None	None	
Onboarding Experience	Easy to navigate around the website with a simple nav bar. User's aren't overwhelmed with too many options and the main locations (sign up or track an order) are easy to find.	- Easy to know where to download apps and where to input tracking numbers, but when scrolling down, way too much information is given and is overwhelming. If a new user was looking for their first tracking app, it could be difficult to understand where to begin.	

Competitive Features vs. OrderOwl Planned Features

Feature	Route https://route.com/	ShopApp https://shop.app/	Pkge.net https://pkge.net/
Real Time Tracking	+ +	+	+ +
Track Number Search Bar	-	-	+
History of Orders	+	+	+
Calendar Tracker	-	-	-

Entry Label Customization	-	-	-
Hidden Orders	-	-	-
Feature	**Ship24 https://www.ship24.com/shops**	**Parcels https://parcelsapp.com/**	**Our Future Product**
Real Time Tracking	+	+	+ +
Track Number Search Bar	+	+	+
History of Orders	+	+	+
Calendar Tracker	-	-	++
Entry Label Customization	-	-	++
Hidden Orders	-	-	+ +

+ Feature exists
+ + Superior
- Does not exists

Based on our thorough competitive analysis, we were able to identify common features that were shared amongst websites that dedicate themselves to tracking online orders. OrderOwl will follow these fundamental features at minimum in addition to other new and unique features that will differentiate our product to others that completely lack in existing solutions. Starting off with the option for users to organize their packages into not only the list of orders and past orders, but also a list for hidden orders. Compared to other products, users are able to only see a list of their current tracked orders or their archived delivered orders, but never an option for users to hide certain tracked orders. With this new feature, it would give users the privacy and discretion that is not found within other similar products. Say a user shares the account with another person, and one user bought a gift for the other user but it's a surprise. The hidden feature would help hide that order within a hidden list. Additionally, another unique feature we shall implement is the option for users to label order entries with whatever they would like so they can better organize their orders. One example of this could be labeling an order with "mom's birthday gift" instead of the actual gifted product's name.

This allows a sense of personalization within our platform. Lastly, our product shall give users an overview of their orders throughout the year, through the option of looking at a calendar and having expected order deliveries be highlighted on their expected dates. This will help users keep track of pre-orders or general orders that may be delivered months later. The features that OrderOwl will commit to, will offer a superior online order tracking experience to all kinds of people. These features will make sure to set us apart from other competition so we can become people's first choice in tracking services.

VII. High-level system architecture and technologies used

1. Server Host: Amazon AWS EC2 t2.micro (1vCPU 1GB Ram)
2. Operating System: Ubuntu 22.04 Server
3. Database: MySQL 8.0.24
4. Web Server: Apache HTTP Server 2.4.57
5. Server-Side Language: Java 21 LTS
6. Additional Technologies:
    - 6.1. Web Framework: Solid JS v1.7.11, Tailwind CSS v3.3.3
    - 6.2. API Framework: Spring Boot 3.1.4
    - 6.3. IDE: IntelliJ; Visual Studio Code
    - 6.4. SSL Certificate: Let's Encrypt
    - 6.5. Domain Name: Cloudflare
7. Supported Browsers:
    - 7.1. Firefox
    - 7.2. Safari
    - 7.3. Chromium Based Browsers
        - 7.3.1. Chrome
        - 7.3.2. Edge

VIII. Checklist:

Item	DONE/ON-TRACK-ISSUE
Team found a time slot to meet outside of the class	DONE
Github master chosen	DONE
Team decided and agreed together on using the listed SW tools and deployment server	DONE
Team ready and able to use the chosen back and front end frameworks and those who need to learn are working on learning and practicing	DONE
Team lead ensured that all team members read the final M and agree/understand it before submission	DONE
Github organized as discussed in class (e.g. master branch, development branch, folder for milestone documents etc.)	DONE

IX. List of team contributions:

Part 1- Team Lead:

Team Members	Contribution	Score
Belu Velazco	● In charge of section 6 in documentation ● Hosted, prepped, and guided all team meetings ● Posted team meeting summaries/notes/recordings after every meetings ● Attended all in-class meetings with professor ● In charge of peer reviewing section 7, 4, and 5 ● Actively communicates within discussion channel ● Set deadlines for tasks for the team ● Created server host and AWS account ● Created branches on GitHub ● Filled in and completed READ ME file ● Initiates check-ins with the whole team ● Created milestone folders on GitHub ● Participated ● Participated in coming up with a project idea ● Filled, completed, and successfully pushed their About Me page ● Created a Discord	9

	Server dedicated to archiving important documents; meeting reports, and other useful notes that were already shared in the class discussion channel ● Collected members' availabilities and found time for all of us to meet during the weekday ● Worked on executive summary ● Reviewed final milestone 1 documentation ● Participated in the brainstorming of project name and other ideas	
David Lien	● In charge of section 4 of documentation ● Attended all in-class meetings with the professor and team meetings and actively participates in both ● In charge of peer reviewing section 5 and 6 ● Actively communicates within discussion channel ● Completed tasks by deadline (if needed more time communicated in advance and completed by extension) ● Filled, completed, and successfully pushed their About Me page	9

	• Participated in coming up with a project idea • Worked on executive summary • Checked over Milestone 1 document • Participated in the brainstorming of project name and other ideas • Reviewed final milestone 1 documentation	
Komaldeep Kaur	• Worked on section 4 of documentation • Attended all in class meetings with professor and half of team meetings • Weekly communication within discussion channel • Filled, completed, and successfully pushed their About Me page • Participated in the brainstorming of project name and other ideas • Formatted first half of the M1 document • Peer reviewed section 5. • Reviewed final milestone 1 documentation	5
Jimmy Pan	• Created/formatted About Me pages • Participated in the brainstorming of project name • Filled, completed, and successfully pushed their About Me page	9

	● In charge of peer reviewing section 2 ● Set up the database ● Helped with creation of the server ● In charge of section 7 in documentation ● Attended all in class meetings with professor and team meetings ● Actively communicates within discussion channel ● Helped create branches on GitHub ● Completed tasks by deadline (if needed more time communicated in advance and completed by extension) ● Participated in coming up with a project idea ● Set up Apache, MySQL, Let's Encrypt, Deploy to Apache, and subdomain ● Created script to update the A record of the subdomain to be the new IP address whenever the server starts up again ● Created script to auto build and deploy latest versions available on GitHub ● Worked on executive summary ● Reviewed final milestone 1 documentation ● Participated in the	

	brainstorming of project name and other ideas	
Mankit Yeung	• In charge of section 2 in documentation • Attended all in class meetings with professor and team meetings • Communicates within discussion channel and is up to date with information • In charge of editing and formatting last half of the document • Participated in coming up with a project idea • Worked on executive summary • Filled, completed, and successfully pushed their About Me page • Reviewed final milestone 1 documentation • Participated in the brainstorming of project name and other ideas	9
Luis Ramirez	• In charge of section 3 of documentation • Attended all in class meetings with professor and team meetings • Helped create branches in GitHub • Actively communicates within discussion channel • Worked on executive summary • Filled, completed, and	9

	successfully pushed their About Me page ● Participated in the brainstorming of project name and other ideas ● Reviewed final milestone 1 documentation	
Tin Nguyen	● In charge of section 5 of documentation ● Attended all team meetings and all except 1 in-class meeting with the professor ○ Communicates when missing a meeting ahead of time ● Actively communicates within discussion channel ● Worked on executive summary ● Filled, completed, and successfully pushed their About Me page ● Checked over Milestone 1 document ● Reviewed final milestone 1 documentation ● Participated in the brainstorming of project name and other ideas	9