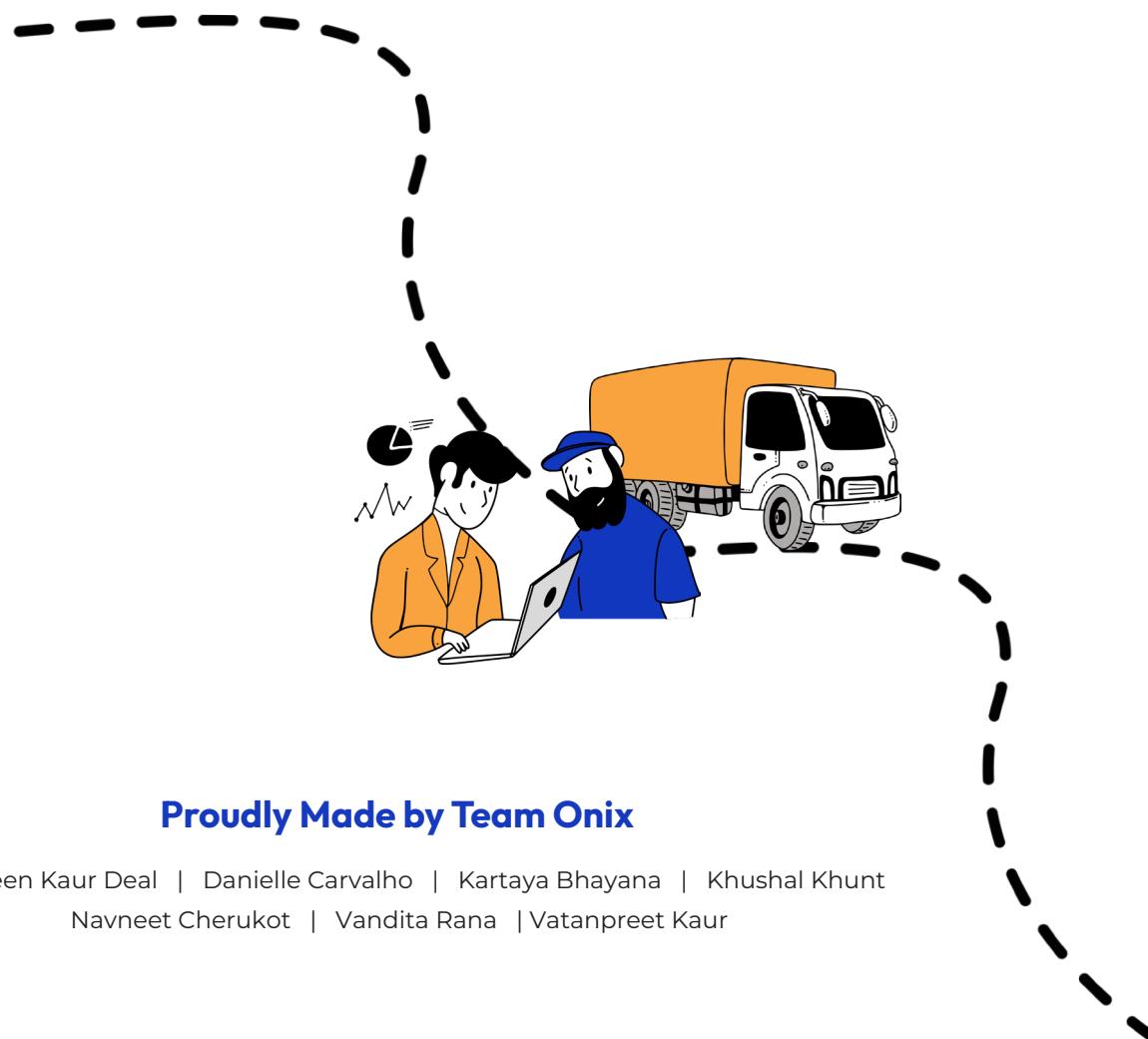




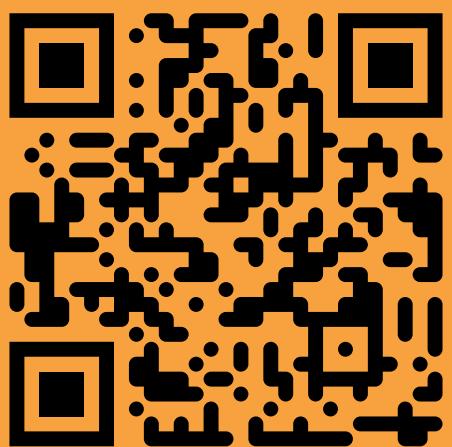
Project Proposal



Proudly Made by Team Onix

Bhawleen Kaur Deal | Danielle Carvalho | Kartaya Bhayana | Khushal Khunt
Navneet Cherukot | Vandita Rana | Vatanpreet Kaur





truvoye.com



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- Branding
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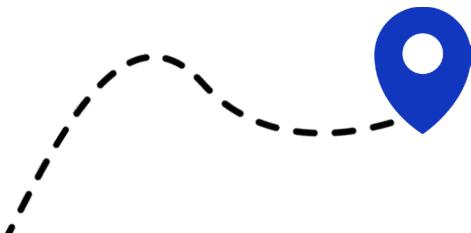
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Project Overview



4





About



The Truvoye web application is a logistics management platform that helps the logistic companies that want to simplify the delivery initiation process by minimizing waiting times for delivery initiation,

allowing them to supervise operations quickly, onboard drivers and track orders in real time. Our goal is to produce the best estimates for your delivery needs and provide a definitive user experience that is



Problem



After interviewing the owner of a logistics company based in India, we learned that in today's fast-paced logistics sector, efficiency and safety are the key to maintaining a competitive advantage. Through this connection we have gained valuable insights regarding the issues present in the logistic industry. We could

observe the logistic companies has been struggling with performing efficiency and safety due to the prolonged shipment processing time due to brokerage, the lack of procedures such as tracking shipment and driver's status in real time and the scarcity in security measures to ensure delivery success.



Solution

To solve logistics companies' operational problems and increase customer satisfaction, we created a web platform called Truvoye. Our platform offers features such as real-time shipment tracking,

shipment time and cost estimation, analytical metrics, driver integration and OTP verification. These features will enable logistics companies to increase their operational efficiency and the safety of shipments.





Main Features

Analytics

Displays performance metrics, as total drivers onboarded, monthly traffic, total shipments delivered, and total earnings.

Proposals Calculator

Allow the logistic companies to estimate time and cost of the shipment.

Real-time Tracking

Provides Real-time tracking of shipments on a map. Allowing logistic companies and their clientes to monitor the shipment status in real time.

Drivers onboarding

Enables the onboarding of drivers, maintaining detailed information about the driver.

OTP Verification

Allows the driver to ensure the safety of the shipments.



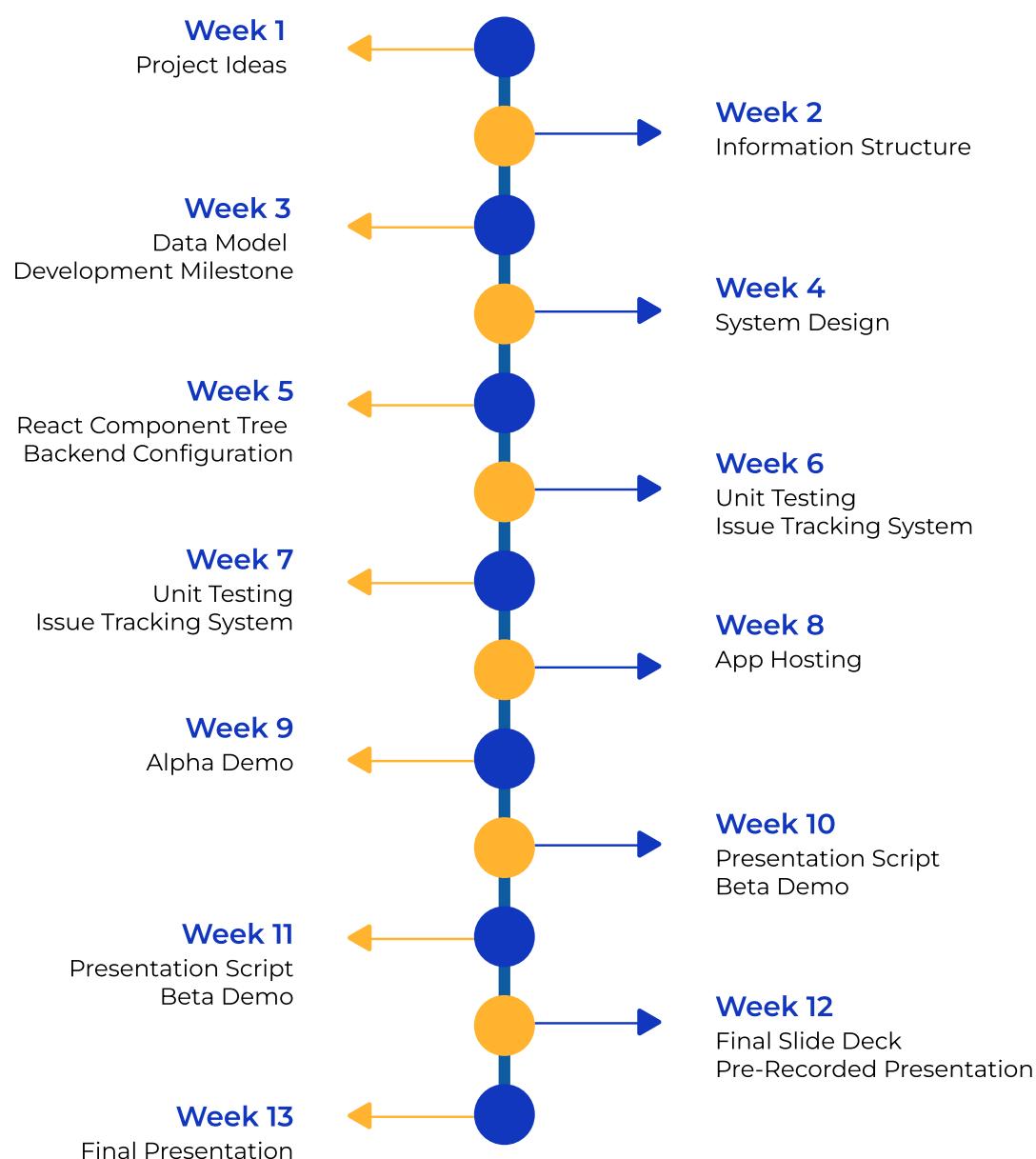
Competitors

	Truvoye	AscendTMS	alvys	SAP
Real-time Tracking	✓	✗	✓	✓
Delivery Verification	✓	✓	✗	✓
Drivers Onboarding	✓	✗	✓	✗
Data Analytics	✓	✓	✓	✓
Order Proposal	✓	✓	✗	✓



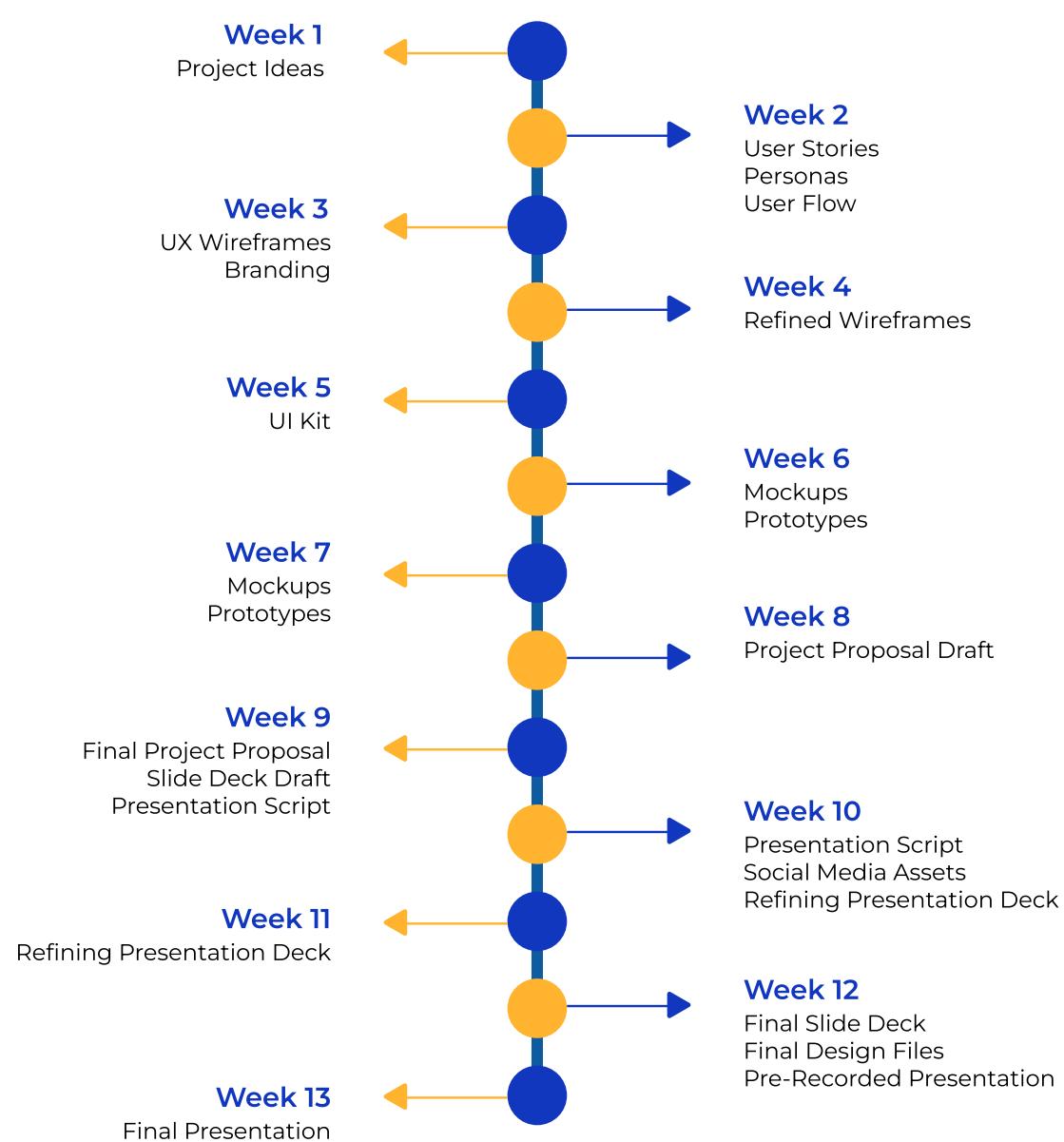
Milestones

Developers





Designers



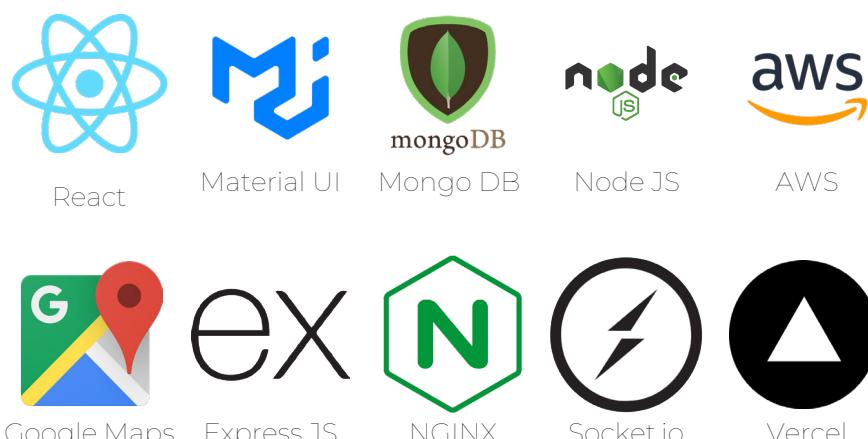


Tech Stack

Design



Developers



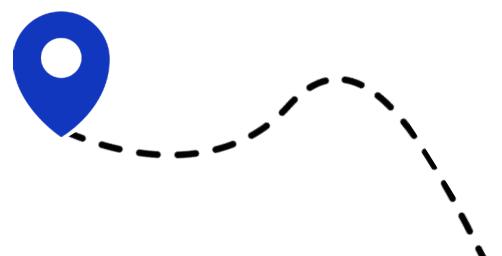
Mongoose

Project Management





Design Process



13





User Persona 1



Company name:

Cargotrack

Industry:

Logistics

Location:

Vancouver, BC

Background:

Cargo track is a small logistics company with 50 employees that has been on the market for 8 years. Its main activity is to facilitate and manage the transportation of cargo for other companies. Its clients cover a wide range, from e-commerce companies to large retailers. The company is based in Vancouver, but its activities cover 60% of the Canadian territory.

Challenges:

- Difficulty in tracking shipments and drivers in real-time, causing inefficiencies and delays.
- Lack of procedures to guarantee the security of shipments, causing client dissatisfaction and potential delivery mistakes.
- Disorganised and manual onboarding process for drivers, causing loss of relevant information about them.
- Long lead times for an order to be approved, causing the company to lose clients and delaying shipments.

Goals:

- Be able to track their shipments and driver's status in real time
- Guarantee their shipments are safe and delivered to the correct place
- Facilitate driver's onboarding and improve the communication with them
- Reduce lead times for an order to be approved





User Persona 2

**Name:**

David Thompson

Age:

27

Occupation:

Truck Driver at
Cargotrack

Reliable • **Detailed-oriented** • **adaptable** • **extroverted**

Background:

David Thompson has been working as a truck driver for the past 6 years. He enjoys the flexibility of the work and meeting new places by driving is his passion.

Challenges:

- Difficulty to manage different shipments at once, causing potential delivery mistakes.
- Lack of a channel to guarantee a clear communication with Cargo Track, being hard to keep the company posted about their current status.
- Limited access to shipment details, causing delays.

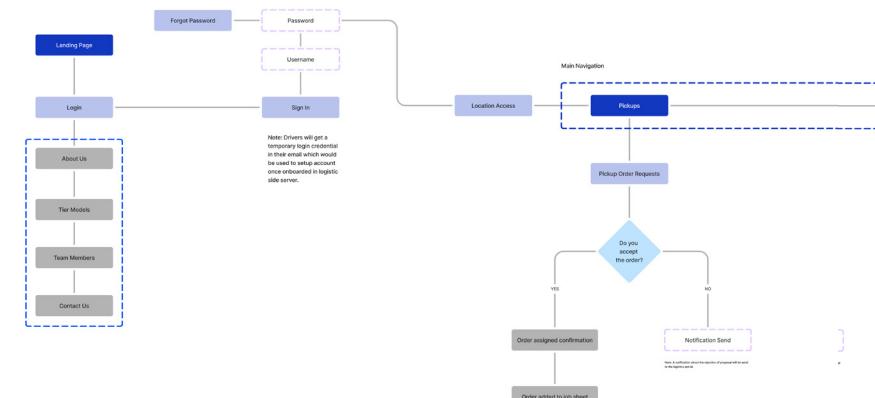
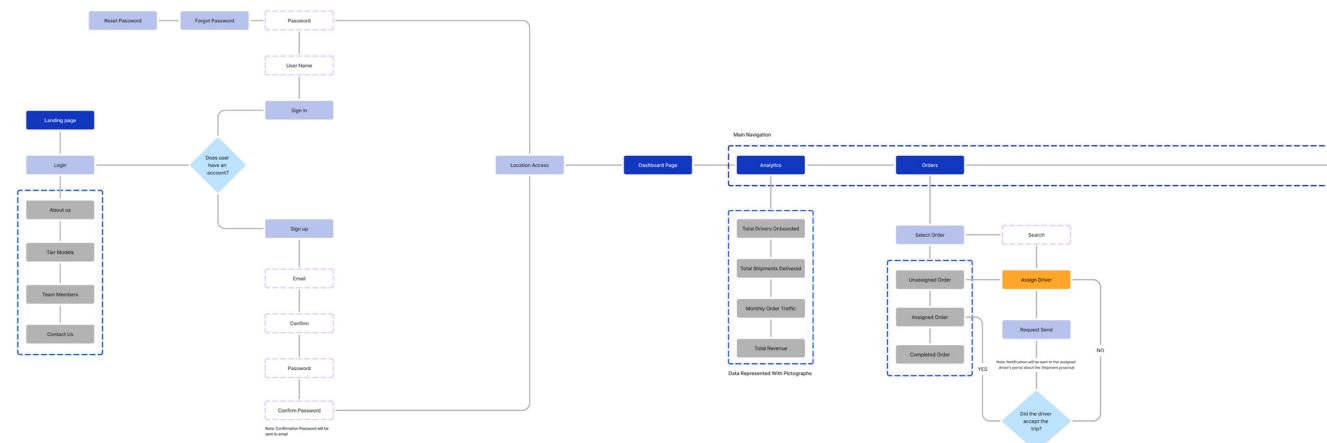
Goals:

- Easily have access to detailed shipment information.
- Enhance the communication with Cargotrack.
- Be able to easily confirm if the shipment is being delivered at the correct address and client.



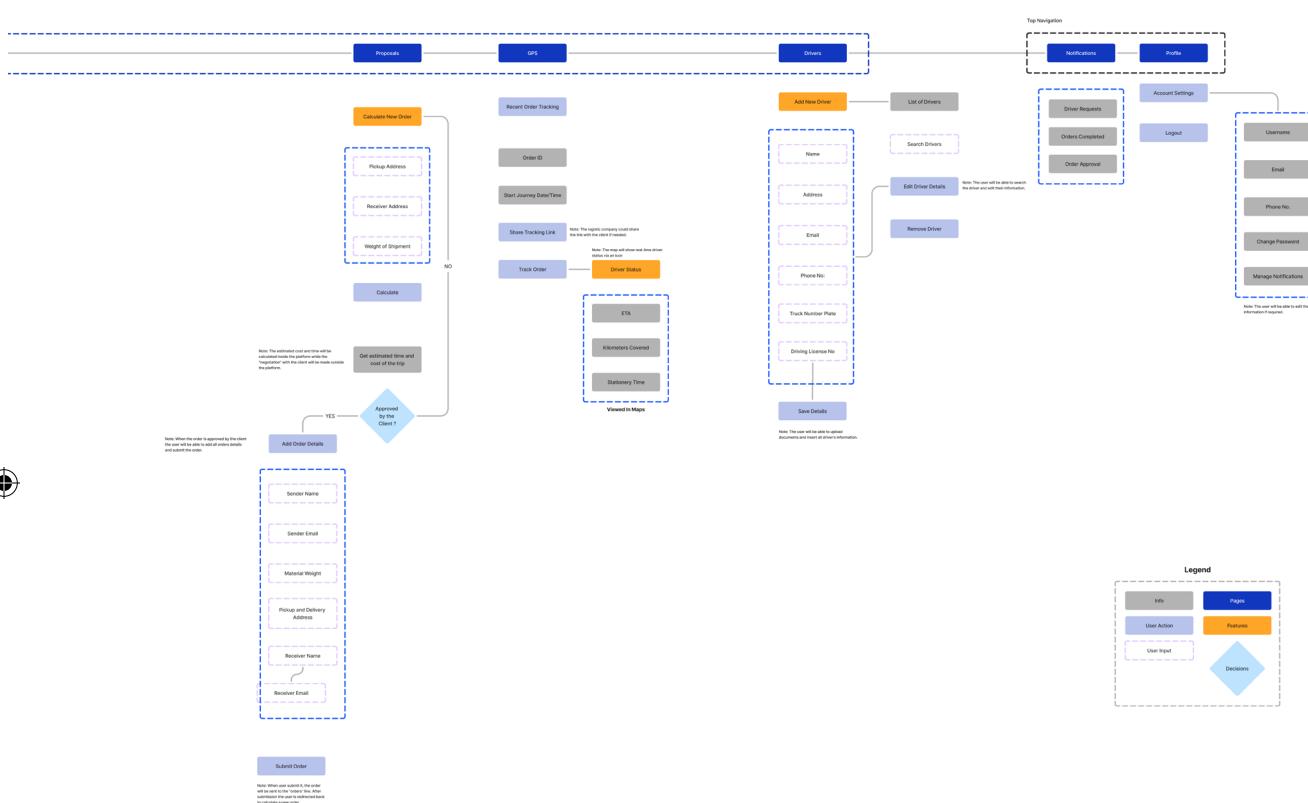


User Flow

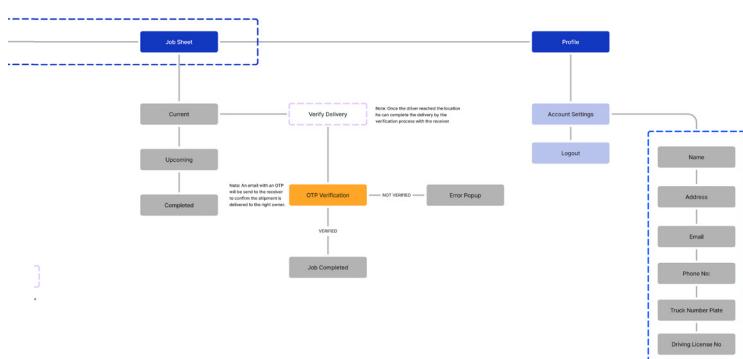




Logistic Side



Driver Side





Wireframes

The wireframe shows the Truvoye logo at the top left. A navigation bar with links: About Us, Tier Models, Team Members, Proposal, Contact Us, Login, and Sign up. Below the navigation is a large central area with a placeholder for an image or content, indicated by a large 'X'. At the bottom left is a 'Get Started' button, and at the bottom right is a 'About Us' link.

Home Page

The wireframe shows the Truvoye logo at the top right. A navigation bar with links: Login and Sign up. Below the navigation is a large central area with a placeholder for an image or content, indicated by a large 'X'. At the bottom left is a 'Get Started' button, and at the bottom right is a 'About Us' link.

About Us

The wireframe shows the Truvoye logo at the top left. On the left is a sidebar with navigation links: Analytics (selected), Orders, Proposals, GPS, and Drivers. The main area displays four cards with statistics: Total Drivers Onboarded (150), Total Shipment Delivered (60), Monthly Order Traffic (330), and Total Earnings (\$23,400). Below these are two line charts: 'Total Drivers Onboarded' showing a fluctuating trend over time, and 'Monthly Order Traffic' showing a similar fluctuating trend.

Data Analytics

The wireframe shows the Truvoye logo at the top right. A navigation bar with links: Login and Sign up. Below the navigation is a large central area with a placeholder for an image or content, indicated by a large 'X'. At the bottom left is a 'Get Started' button, and at the bottom right is a 'About Us' link.



Truvoye

Analytics Orders Proposals GPS Drivers

Proposal Details Estimations Submit Order

Add Order Proposal

Pickup Address pickup address

Receiver Address receiver address

Weight of Shipment weight of shipment

Calculate

Proposals

Proposal Details Estimations Submit Order

Add Order Proposal

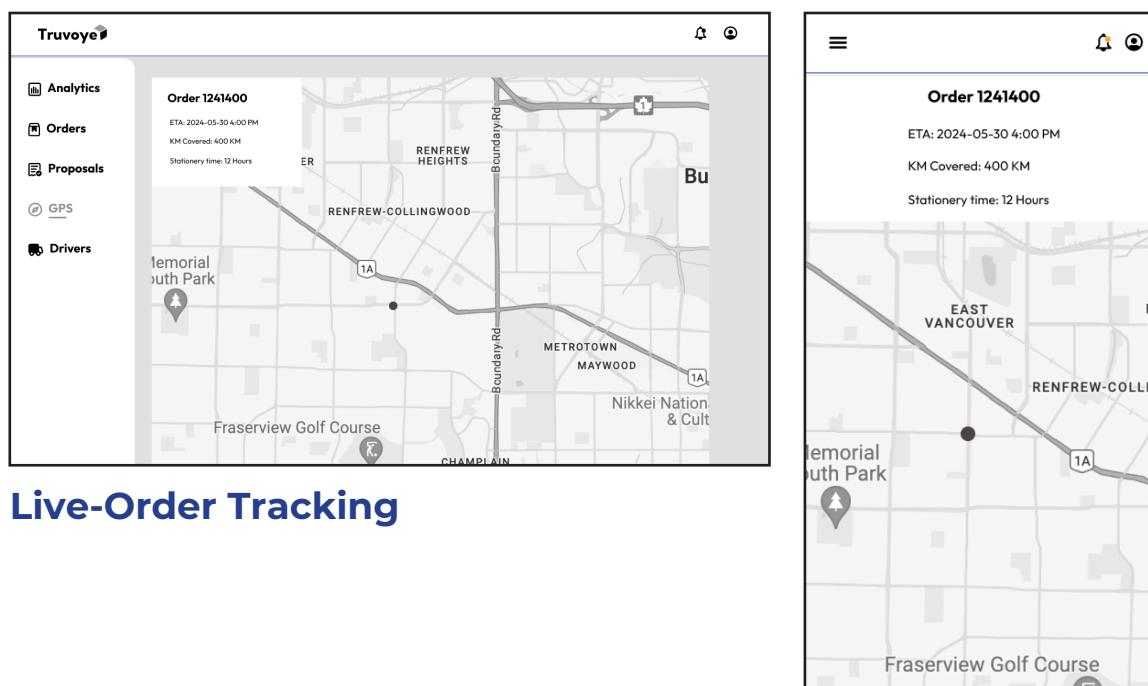
Pickup Address pickup address

Receiver Address receiver address

Weight of Shipment weight of shipment

Calculate

Order Proposal



Live-Order Tracking



Truvoye

Analytics

Orders

Proposals

GPS

Drivers

Add New Driver

Name

Address

Email

Phone

Truck Plate

Drive License Number

Add New Driver

Name

Address

Email

Phone

Truck Plate

Driver License

Driver Onboarding

Job Sheet

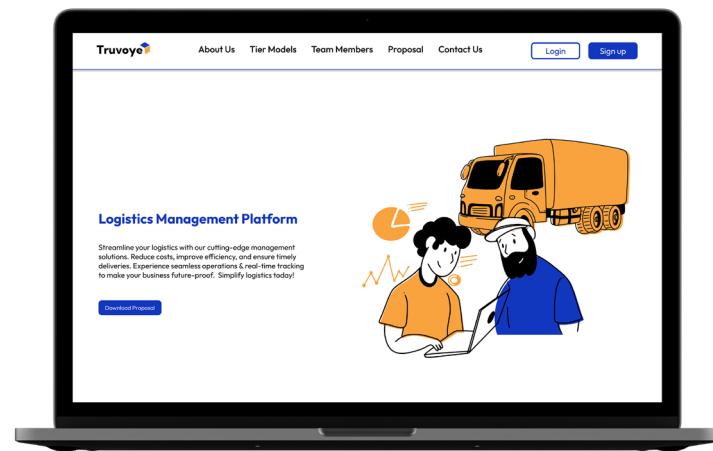
OTP Verification

Enter OTP given by the receiver to confirm delivery

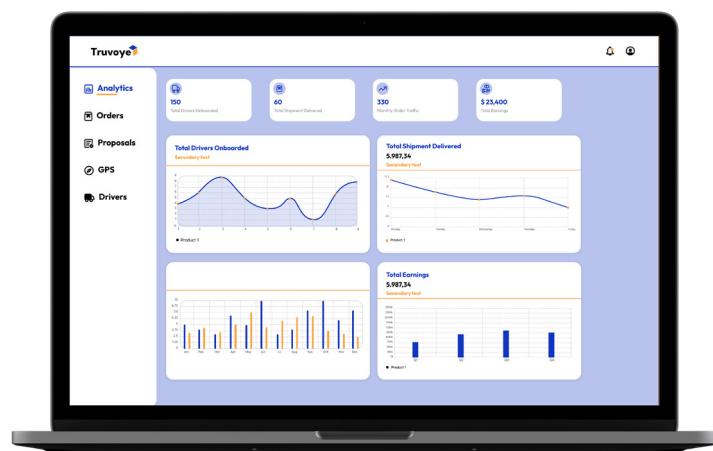
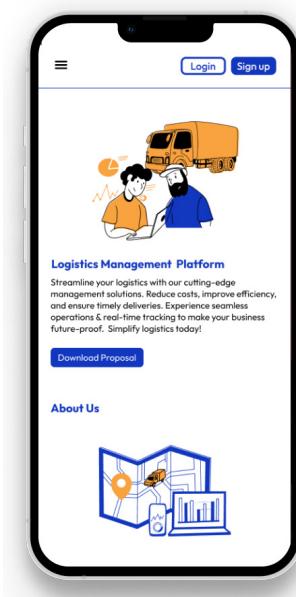
OTP Verification



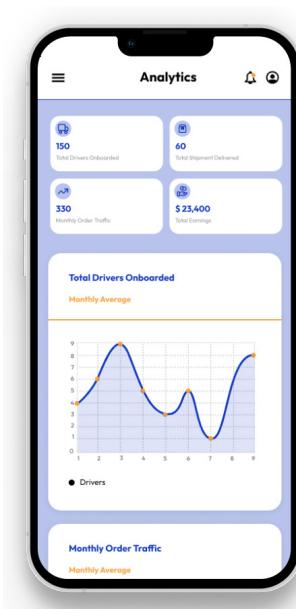
Mockups

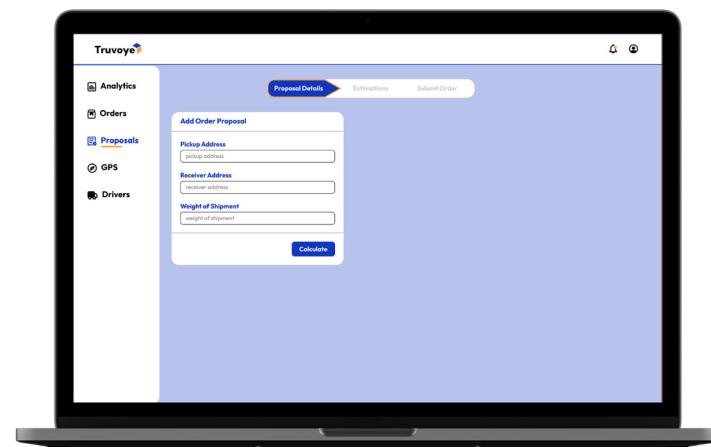


Home Page

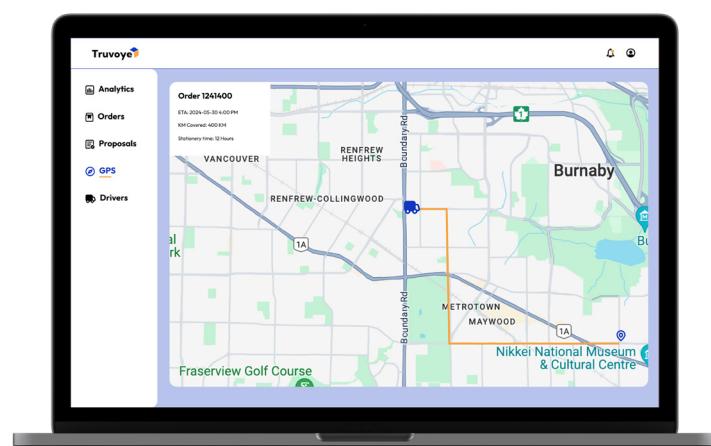
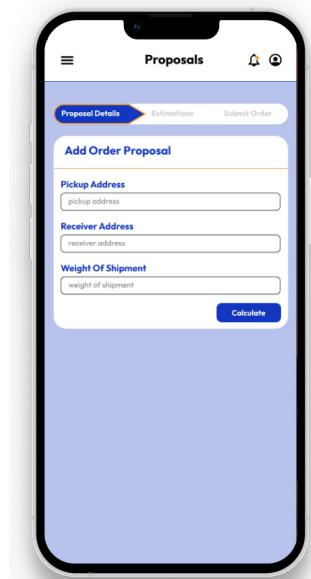


Analytics

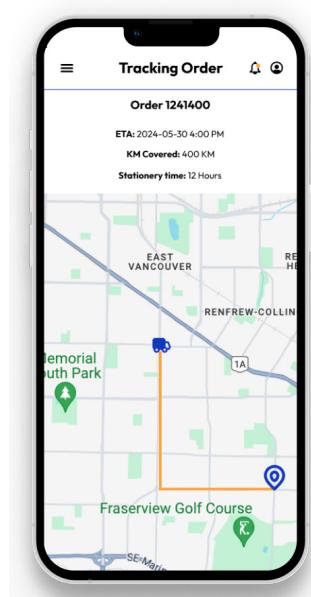


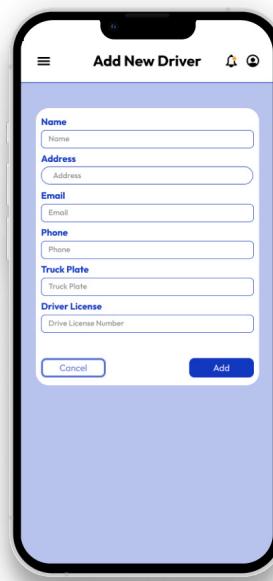
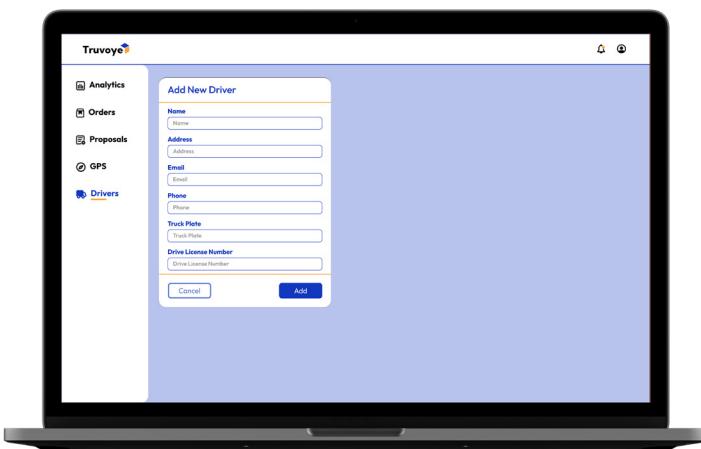


Order Proposal

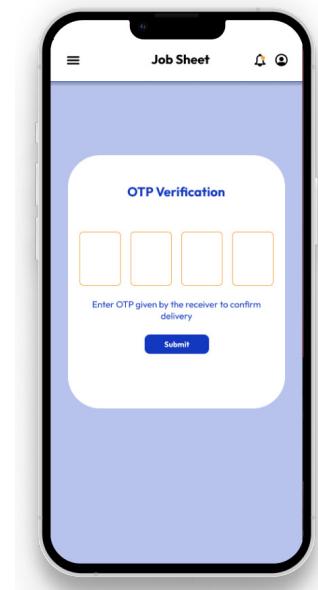


Live Order Tracking





Driver Onboarding



OTP Verification





Branding

Logo

Being a logistics management web app, we made sure to acknowledge the use case of our app to be very evident from the name and be easier to pronounce. This led us to a combination of the words truck, to address the logistics business and drivers and the word voyage, to

address the journey that the drivers embark upon.

The logo uses the two main brand colours and consists of two squares that resemble a cargo box using the negative space while also visualising an arrow to denote the progress and endless opportunities.



Logo

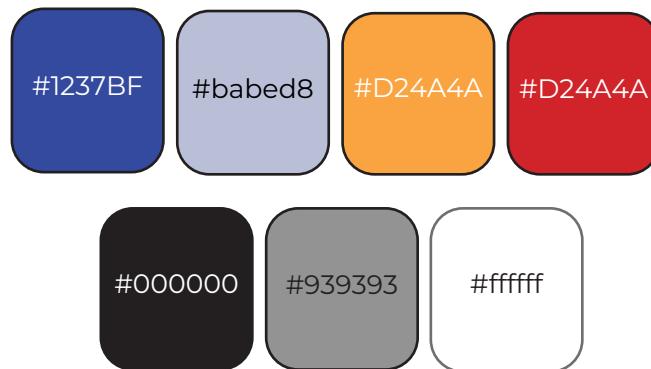


Favicon

Colour Palette

We have used blue as the primary colour as it evokes a sense of trust and reliability. As a way to compliment the primary colour, we have a hue of orange as the secondary and a variation of

the primary to give different perspectives of the colour choice. Additionally, we have red, black and grey to notify error, input text and disabled respectively.





Typography

Font Used :

Outfit

“Outfit” is a versatile, geometric sans-serif typeface that offers clean lines and a modern aesthetic, making it ideal for digital interfaces. Its readability at various sizes ensures that content remains accessible and user-friendly, whether on a small mobile screen or a larger desktop

monitor. Additionally, the font’s variety of weights provides flexibility for creating visual hierarchy and emphasis within the design. Overall, “Outfit” contributes to a sleek, professional look while supporting the project’s usability goals.

Heading 1

Bold 700 24pt

Heading 2

Bold 700 22pt

Heading 3

Bold 700 20pt

Heading 4

Bold 700 18pt

Heading 5

Bold 700 14pt

Body - Big

Regular 400 18pt

Body - Small

Regular 400 16pt

Body

Regular 400 14pt

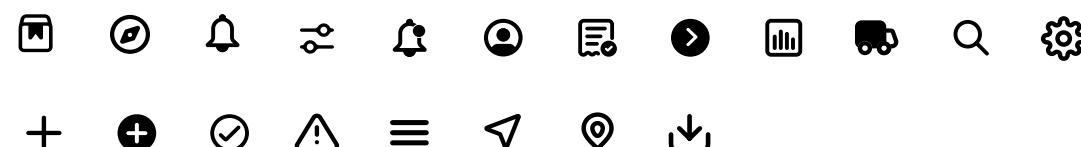
Body - Extra Small

Regular 400 12pt

Body - Extra Small

Bold 700 12pt

Iconography





UI Kit



Buttons

Default



Hover



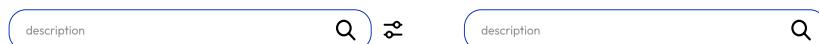
Disabled



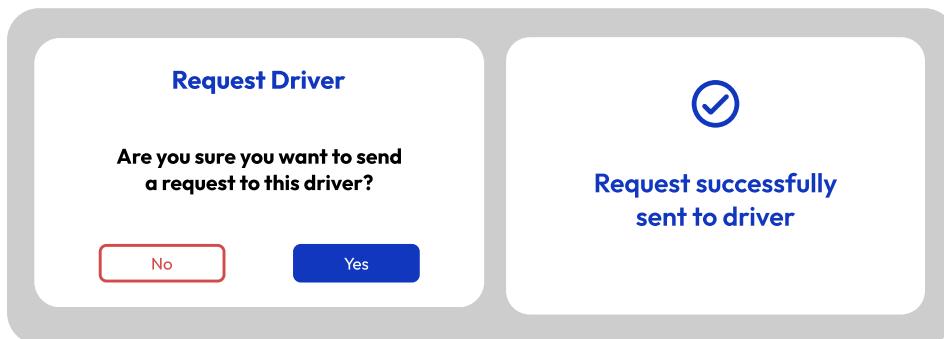
Input Labels



Search Fields



Pop-Ups





Tables

Orders

ID	Status	Assigned Driver	Date	Destination	Details
10876480UA	Assigned	Noneet Chauhan	20/01/2024	Mumbai, QC	Details
20876480UB	Unassigned	None	20/01/2024	Victoria, BC	Details
30876480UC	Unassigned	None	20/01/2024	Halifax, NS	Details
40876480UD	Assigned	Vardhita Rana	20/01/2024	Victoria, BC	Details
50876480UE	Unassigned	None	20/01/2024	Mumbai, QC	Details
60876480UF	Complete	Khalid Khan	20/01/2024	Halifax, NS	Details
70876480UD	Assigned	Vishnupreet Kaur	20/01/2024	Halifax, NS	Details
80876480UD	Assigned	Bhavneet Kaur Desi	20/01/2024	Halifax, NS	Details
90876480UD	Assigned	Kartavya Bhayana	20/01/2024	Halifax, NS	Details

Page 1 of 10 Next

Available Drivers

Name	Address	Email	Phone	Truck Plate	Driver License	Assign
Danielle C	7588, Kingsway	danic@gmail.com	778-636-4563	0014 KE	1234567	<input type="checkbox"/>
Danielle C	7588, Kingsway	danic@gmail.com	778-636-4563	0014 KE	1234567	<input type="checkbox"/>
Danielle C	7588, Kingsway	danic@gmail.com	778-636-4563	0014 KE	1234567	<input type="checkbox"/>
Danielle C	7588, Kingsway	danic@gmail.com	778-636-4563	0014 KE	1234567	<input type="checkbox"/>
Danielle C	7588, Kingsway	danic@gmail.com	778-636-4563	0014 KE	1234567	<input type="checkbox"/>
Danielle C	7588, Kingsway	danic@gmail.com	778-636-4563	0014 KE	1234567	<input type="checkbox"/>
Danielle C	7588, Kingsway	danic@gmail.com	778-636-4563	0014 KE	1234567	<input type="checkbox"/>

Page 1 of 10 Next

Headers

Truvoye

About Us Tier Models Team Members Proposal Contact Us

Login Sign up

Logout Profile

≡ Login Sign up

≡ Logout Profile

≡ Title Logout Profile

Footers

Truvoye

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Our Product

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Our Product

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Design System

Tables

Description

The tables are fundamental components of our web platform, since it's reflected on our main features (Orders, and Drivers). It is structured to present the data in an efficient way and easy the data management.

Anatomy

Use header, to put title, search, filters, and call to action. Divide the body by cells (columns and rows), add a title for each column and use the last column in case a call to action is needed. use the footer, to add pagination and previous/next button.

The diagram illustrates the structure of a table. A vertical orange line on the left side is labeled with three horizontal bars at the top, middle, and bottom, corresponding to the 'Header', 'Body', and 'Footer' sections respectively. To the right of this line is a screenshot of a table titled 'Orders'. The table has columns for ID, Status, Assigned Driver, Date, Destination, and Details. The 'Status' column contains buttons for 'Assigned' (orange), 'Unassigned' (grey), and 'Complete' (blue). The 'Assigned Driver' column lists driver names like Navneet Cherukot, Vandita Rana, etc. The 'Date' column shows dates like 20/11/2024. The 'Destination' column lists locations like Montreal, QC, Victoria, BC, Halifax, NS, etc. The 'Details' column contains small circular arrows. At the bottom of the table, there is a footer section with a 'Page 1 of 10' label and a 'Next' button.

ID	Status	Assigned Driver	Date	Destination	Details
1087648UA	Assigned	Navneet Cherukot	20/11/2024	Montreal, QC	
2087648UB	Unassigned	None	20/11/2024	Victoria, BC	
3087648UC	Unassigned	None	20/11/2024	Halifax, NS	
4087648UD	Assigned	Vandita Rana	20/11/2024	Victoria, BC	
5087648UE	Unassigned	None	20/11/2024	Montreal, QC	
6087648UF	Complete	Khushal Khunt	20/11/2024	Halifax, NS	
7087648UG	Assigned	Vatanpreet Kaur	20/11/2024	Halifax, NS	
7087648UG	Assigned	Bhawleen Kaur Deol	20/11/2024	Halifax, NS	
7087648UG	Assigned	Kartavya Bhayana	20/11/2024	Halifax, NS	



Spacing

Section
Info

The screenshot shows a header section with a title field, a search input field containing 'description', and a magnifying glass icon. Below the header, it says 'Page 1 of 10' and has 'Next' and 'Previous' buttons.

Header and Footer

Left/right: 24px

Top/Bottom: 24px

Section cell

Left/Right: 24px

Top/Bottom: 12px

Information cell

Left/Right: 24px

Top/Bottom: 24px

Behavior

When an item is added to the table, it will be always placed at the top of the list. The previous button will be invisible until you move to the next page. The header and the columns should always have a title. If a call to action is needed on the header, the search should be placed in the center.

The screenshot shows a header with 'Previous' and 'Next' buttons, and the text 'Page 2 of 10'. Below the header is a search bar with the placeholder 'description' and a magnifying glass icon. At the bottom is a table with a single visible row labeled 'Drivers'. To the right of the table is a blue button labeled '+ Add Driver'.



Icons

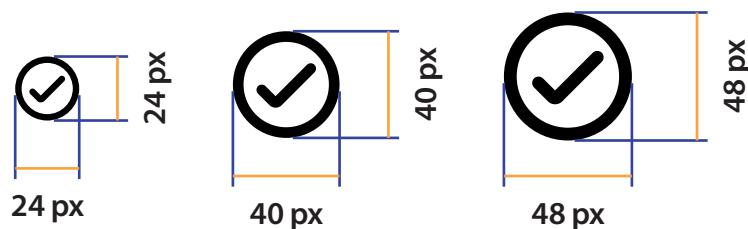
Description

Our Icons are functional, intuitive and, accessible and user-friendly. It was designed to easy our platform navigation, accessibility and enhance user experience.

Aspects

The icons are present on the side menu and header, to easy the navigation, on our tables to specify some actions the user might need to take, and on our pop-ups, to represent positive and negative actions.

Dimensions (min and max)



Variations

Inactive	Active	Hover
+	+	+
⚠	⚠	⚠
⬇	⬇	⬇
➤	➤	➤
≡	≡	≡
📍	📍	📍
📍	📍	📍
🕒	🕒	🕒
🔔	🔔	🔔
🔔	🔔	🔔
◀	◀	◀
🚚	🚚	🚚
📄	📄	📄
🔍	🔍	🔍
👤	👤	👤



Pop-ups

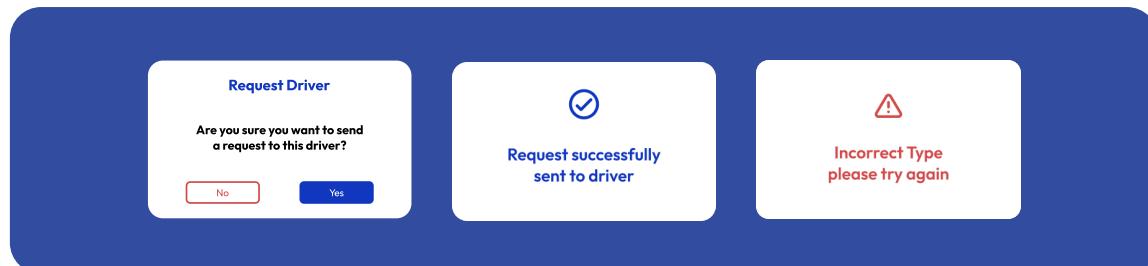
Description

The pop-ups are crucial elements of our web application, since it will guide users on making decisions and avoiding unwanted actions.

Anatomy

Our web platform have 3 types of pop-ups: decision, success, and error. The decision pop-up has a title, a question, a destructive button and a call to action. The success pop-up has an icon and a success message. The error pop-up has an icon and an error message.

Variations



Spacing



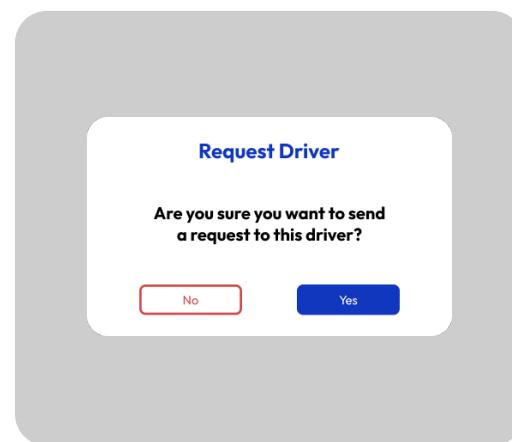
Left/Right: 60px

Top/Bottom: 24px

In Between: 40px

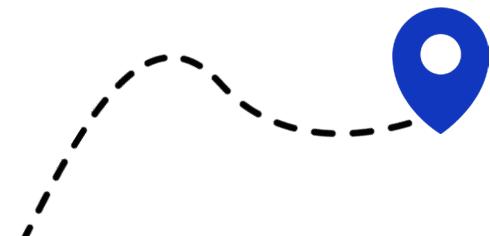
Behavior

The decision pop-up will stay on the screen until the user make a decision. The Success and Error pop-ups will stay on the screen for 3 seconds until fade out. Always use the pop-ups above a 20% opacity black background. The pop-ups should be placed in the center of the screen.





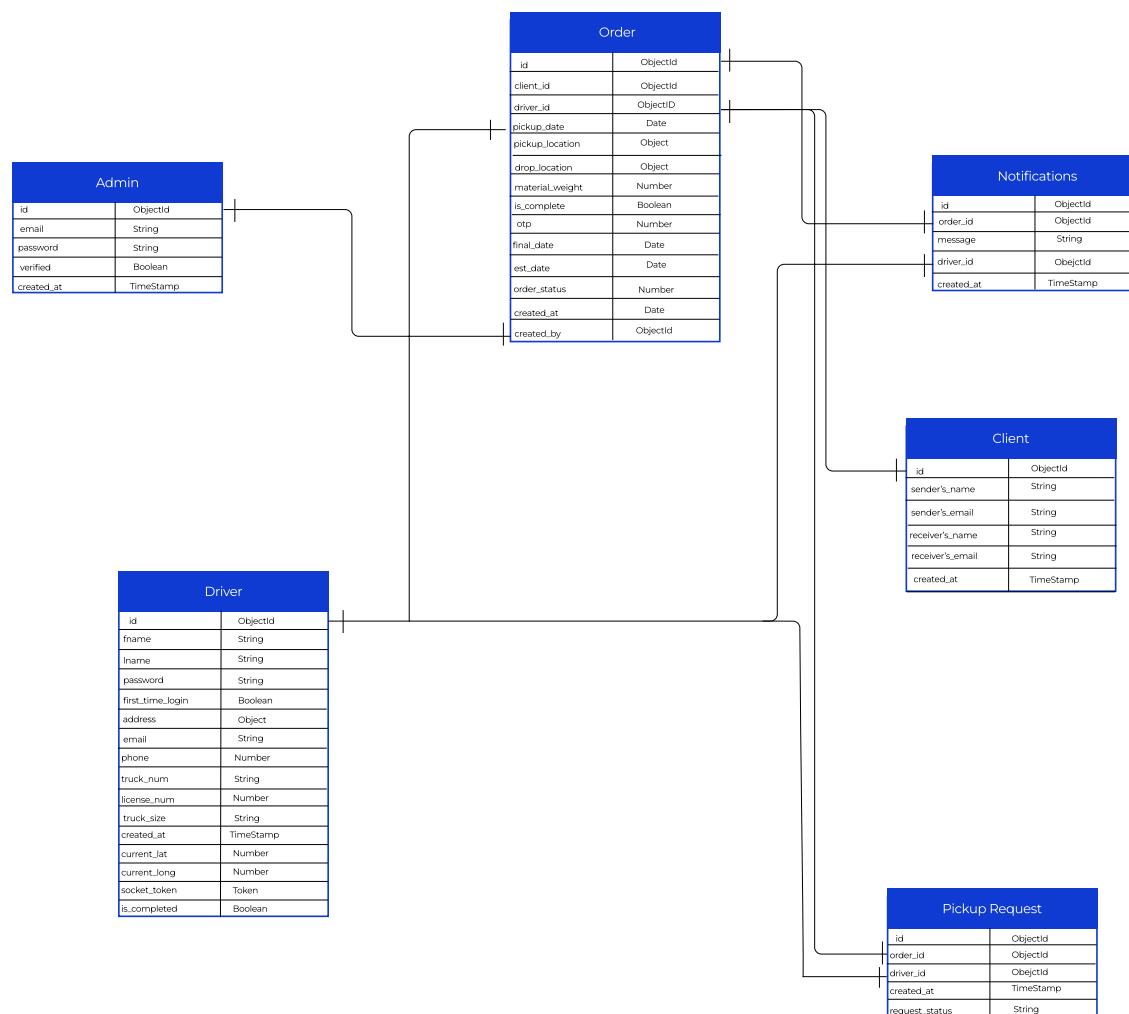
Development Process



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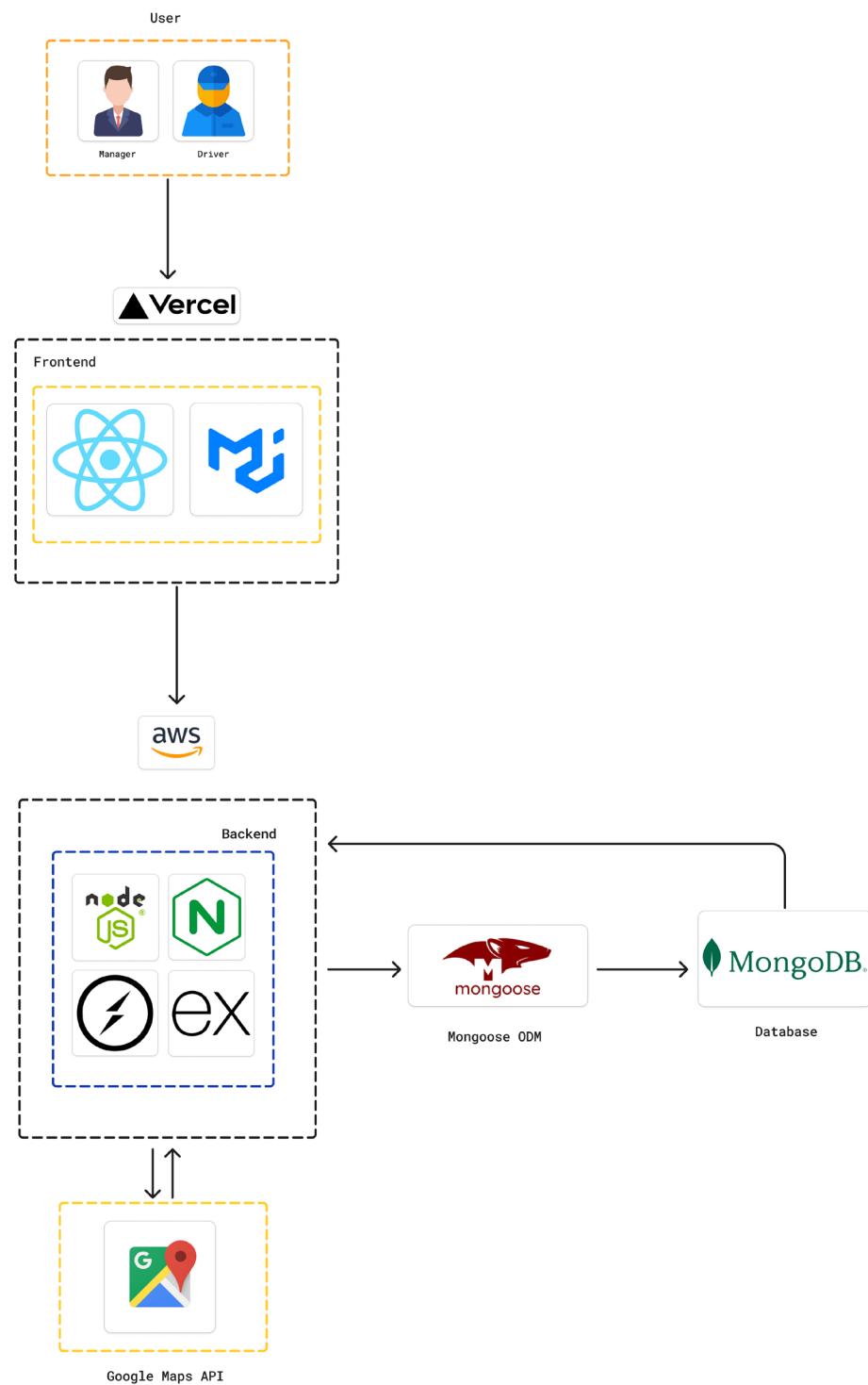


Data Model





System Design





React Tree



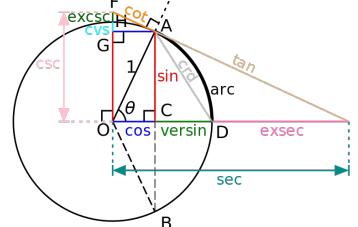


Haversine Formula

The algorithm used in the `getDistanceBetweenPoints` function is the Haversine formula, which is a mathematical formula used to calculate the distance between two points on a sphere (such as the Earth) given their longitudes and latitudes.

The formula is widely used in geolocation and mapping applications, such as calculating distances between two points on a map, or determining the closest point to a given location. Zoom intensity of the map can be controlled using this formula.

```
function getDistanceBetweenPoints(point1, point2) {
  const lat1 = point1.lat;
  const lng1 = point1.lng;
  const lat2 = point2.lat;
  const lng2 = point2.lng;
  const earthRadius = 6371; // in kilometers
  const dLat = toRadians(lat2 - lat1);
  const dLng = toRadians(lng2 - lng1);
  const a =
    Math.sin(dLat / 2) * Math.sin(dLat / 2) +
    Math.cos(toRadians(lat1)) *
    Math.cos(toRadians(lat2)) *
    Math.sin(dLng / 2) *
    Math.sin(dLng / 2);
  const c = 2 * Math.atan2(Math.sqrt(a), Math.sqrt(1 - a));
  const distance = earthRadius * c;
  return distance * 1000; // Convert to meters
}
```



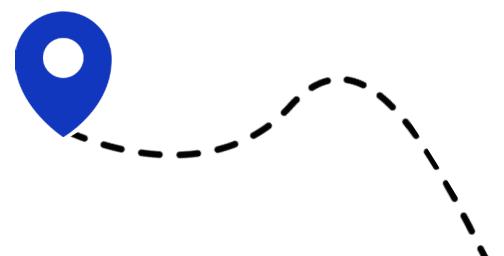
$$\text{distance} = 2 * \arcsin(\sqrt{\text{haversin}(dLat) + \cos(lat1) * \cos(lat2) * \text{haversin}(dLng)}) * \text{earthRadius}$$

Here's a breakdown of the formula:

- $dLat$ and $dLng$ are the differences in latitude and longitude between the two points, respectively, converted to radians.
- a is the square of half the chord length between the two points, calculated using the law of haversines.
- c is the angular distance between the two points, calculated using the inverse tangent function (atan2).
- $distance$ is the distance between the two points, calculated by multiplying the angular distance c by the Earth's radius (earthRadius).



Business Model



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Business Strategy

Opportunities

- The global logistics market size accounted for USD 8.96 trillion and is expected to be continuously growing.
- This e-commerce tool needs an opportunity to grow in the business market.
- To resolve this problem by facing a prolonged shipment process due to brokerage, lack of procedures such as tracking the shipment order in real time, this app has a valuable solution.

Revenue Model

- Offering the freemium subscription based model for onboarding drivers and number of orders which will be the strategic approach to attract the customers for receiving orders from the drivers in a fast way.

Competitive Advantage

- Real time tracking which allows users to track their order.
- OTP verification for drivers after delivering the order.

Customer Success

- Receiving orders in a fast-paced environment via verifying OTP authentication.
- Safety and security token authentication for securing password and encryption.



Tier Models

Our logistic management platform offers three main tier models to cater to diverse needs. The free tier provides essential features for small operations. The premium tier enhances functionality with advanced tools for growing

businesses. The elite tier delivers comprehensive, customizable solutions and dedicated support for large enterprises seeking optimal efficiency, scalability in their logistics operations and first-hand experience with beta feature releases.

FREE

- Up to 5 drivers onboarding capability.
- 5 order proposal creation ability.
- Up to 5 order assigning feature of drivers.

PREMIUM

\$399
per month

- Up to 80 drivers onboarding capability.
- 80 order proposal creation ability.
- Up to 80 order assigning feature of drivers.
- Live-Tracking for 80 Orders.

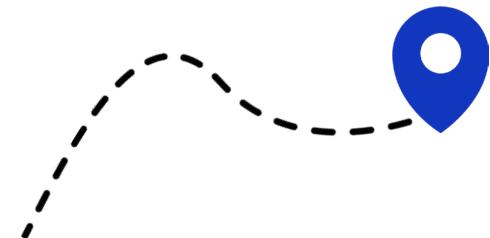
ELITE

\$999
per month

- Unlimited drivers onboarding capability
- Unlimited order proposal creation ability.
- Unlimited order assigning feature of drivers.
- Unlimited Real Time Tracking of drivers.
- Access to beta features.



Team Members



40





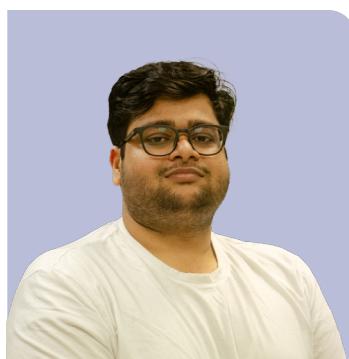
Kartavya Bhayana

/kartavya-bhayana

Full Stack + Lead Developer

A skilled full-stack developer, He specializes in creating seamless and efficient web applications.

His expertise spans across various technologies, ensuring robust and user-friendly solutions.



Khushal Khunt

/khushal-khunt

Full Stack Developer

He is a full-stack developer, driven by a passion for crafting innovative solutions, excels in both front-end and back-end technologies, ensuring efficiency and high performance in every project undertaken.



Bhawleen Kaur Deol

/bhawleen-kaur-deol

Full Stack Developer + PM

She is a full stack developer who believes in learning by doing and solving real-world problems hands-on. Believes practical experience is key to building great solutions

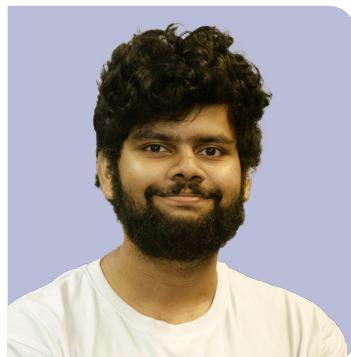


Vatanpreet Kaur

/vatanpreet-kaur-sandhu

Full Stack Developer

She is a full stack developer and quick learner, constantly refining her skills and leveraging hands-on experience to solve real-world problems and stay ahead of the competition.



Navneet Cherukot

/navneetcherukot

UX/UI + Lead Designer

A passionate and enthusiastic UI/UX designer who is keen on creating human-centric design solutions with a sustainable and minimalistic approach. He's a part-time cinephile and full-time creative head



Danielle Carvalho

/daniellefpcarvalho

UX/UI Designer

Dedicated professional, passionate about UI/UX design, her goal is to have the most careful attention to detail to be able to create intuitive and visually engaging user experiences.



Vandita Rana

/vanditarana

UX/UI Designer

She is a UI/UX designer who is inquisitive about learning new things and passionate about brand designing and web design





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