WEB ROUTING

USER MANUAL

SLIPPERY ROCK UNIVERSITY

Alex Dickson acd1015@sru.edu

Thomas Haley tjh1019@sru.edu

Sinchana Kori ssk1002@sru.edu

Beth Orgovan [bro0700@sru.edu](mailto:bro0700@sru.edu)

Dakota Myers drm1022@sru.edu

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# 1. Getting started – Home PAge and Navigation

Upon program launch, the user is greeted by the System home page (**Figure 1**). The user has the option to navigate to either the log in page or the account registration page.

The side navigation bar (**Figure 1 - on left**) will present different options pertaining to the user’s role and is available across the website. It is collapsible via the ‘  ’ button in the top right of the bar. The navigation bar can be expanded by clicking the ‘  ‘ button (**Figure 2 - on left)**

Graphical user interface, table

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**Figure 1 – Home Page of System (Content-Push Nav-Bar Open)**

A picture containing graphical user interface

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**Figure 2 – Home Page of System (Content-Push Nav-Bar Closed)**

# 2. Login and users

A fresh installation of the program comes with the following default role accounts preinstalled:

|  |  |  |
| --- | --- | --- |
| **Default Credentials/Role** | **Username** | **Password** |
| **ADMIN** | AdminTry | AdminTry |
| **SHIPPER** | Shipper | Password |
| **CARRIER** | Carrier | Password |
| **MASTER LIST** | Master | Password |
| **SHADOW ADMIN** | ShadowAdmin | Password |

See Section 2.2\* for more details on the permissions/level of access for each role.

2.1 Registration

On the homepage, click ***Create Account*** or select the ***Registration*** tab on the sidebar to navigate to the ***Registration Home*** page (**Figure 3**).

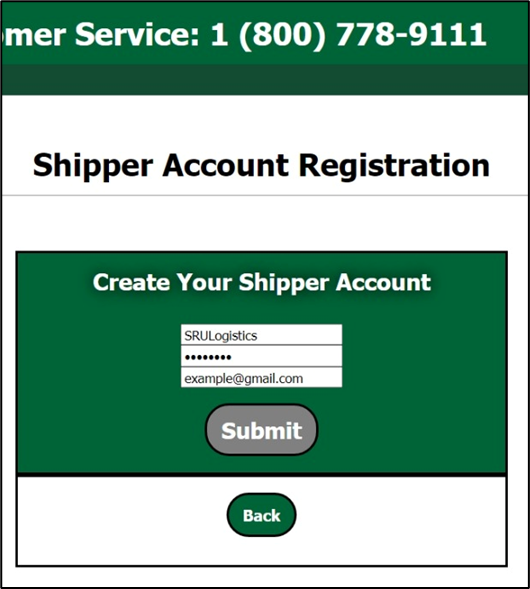
This page provides general details of what features and functions each account type provides the user.

Graphical user interface, application

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**Figure 3 – Registration Home Page**

### 2.1.1 shipper account registration

Clicking the ***SELECT*** button under the **SHIPPER** column on the ***Registration Home*** page will redirect the user to the ***Shipper Registration*** page and display the form to create a shipper account (**Figure 4**). Fields the user must provide are a ***Username***, ***Password***, and ***Email***.

The username MUST be **at least 6 characters long and LESS THAN 32 characters**. The password MUST be **at least 8 characters long and LESS THAN 32 characters**.

An improper submission will prompt the user with an error message depending on what field was not filled in correctly.

A proper form submission will load a captcha onto the screen for the user to validate that they are not a robot (**Figure 5**). After handling the captcha, the user has created a user account with the ***SHIPPER*** role assigned to it. For further details on **Figure 4 – Shipper Registration Form** roles, see Section 2.2\* **Note:** aftersuccessfully creating an account, the user will be redirected to the ***Login*** page.

**Graphical user interface, website

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**Figure 5 – Shipper Registration Form Captcha**

### 2.1.2 carrier account registration

![Graphical user interface, text, application

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4T/qRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjExOjE1IDE0OjEyOjEyAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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the ***SELECT*** button under the **CARRIER** column on the ***Registration Home*** page will redirect the user to the ***Carrier Registration*** page and display the form to create a carrier account (**Figure 6**). Fields the user must provide are a ***Username, Password, Email, Carrier Name, SCAC #, Pallets, Weight, Less-Than-Truckload (LTL), and Full-Truckload (FTL)***

The Username MUST be **at least 6 characters long and LESS THAN 32 characters**. The Password MUST be **at least 8 characters long and LESS THAN 32 characters**. The Carrier Name MUST not already exist in the database. The SCAC code MUST be **at least 2 characters long and NO MORE THAN 4 characters.**

An improper submission will prompt the user with an error message depending on what field was not filled in correctly.

**Figure 6 – Carrier Registration Form**

A proper form submission will prompt a captcha validation like the one seen in **Figure 5**; after navigating the captcha, a user account is created with the ***CARRIER*** role assigned to it. For further details on roles, see Section 2.2\*; for further information on carriers, see Section 11\*. **Note:** After successfully creating an account, the user will be redirected to the ***Login*** page.

2.2 ROLES

Every user account, except for Shadow Admin, has a role assigned to it.

The four roles in System: **ADMIN, SHIPPER, CARRIER, and MASTER LIST**.

When logged in as an admin, the roles can be viewed on the ***Users*** page (*See Section 2.3 for more details)*.

On the ***Users*** page (**Figure 7**), click the ***View Available Roles*** button to navigate to the ***Roles page*** (**Figure 8**). Here, the admin can see each user associated with each of the four available roles.

**Graphical user interface, table

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Figure 7 – Users page with View Available Roles

**Graphical user interface, text

Description automatically generated**

Figure 8 – Roles Page on Admin Account

Below is a description of each role and its unique set of permissions:

**ADMIN –** Administrator accounts are the only accounts that can change user account information. Non-admin users should contact admin users if they encounter trouble logging into their account. Administrator accounts have access to the following:

* Users (Section 2.3)

**SHIPPER –** Shipper accounts can create shipments that carrier accounts can then bid on. Shippers can also edit shipment details on shipments that have not yet been accepted. Shipper accounts have access to the following:

* Shipments (Section )

**CARRIER –** Carrier accounts have the widest range of permissions, as they interact with many of the system components. They can view and bid on the available shipments. If the bid is accepted, that shipment is assigned to the carrier account, and edit access to the shipment is granted to the carrier account. Shipments details are available for the Carrier to see. Carrier accounts have access to the following:

* **Contacts (Section 3)**
* **Carriers (Section 4)**
* **Locations (Section 5)**
* **Vehicle Types (Section 6)**
* **Vehicles (Section 7)**
* **Drivers (Section 8)**
* **Technicians (Section 9)**
* **Maintenance Orders (Section 10)**
* **Shipments (Section 11)**
* **Routes (Section 12)**
* **Auctioning (work in progress)**

**MASTER LIST –** Master List accounts have a more in-depth view of all the shipments. They can see all shipments as well as the planned shipping date(s), the assigned carrier, and even the assigned vehicle for the shipment. Master List accounts have access to the following:

* **Carriers (Section 4)**
* **Shipments (Section 11)**
* **Routes (Section 12)**

**UBIQUITOUS PERMISSIONS - All** roles may access the ***Home, Login,*** and ***Registration*** pages. All roles may also log in, log out, and update their personal user details from their home screen.

2.3 USERS – ADMIN ACCOUNT

Graphical user interface, text, application, chat or text message

Description automatically generatedThe ADMIN role has access to the following as seen in (**Figure 9**):

***Users***: Navigates to a page displaying information for every registered user (**Figure 10**). Here, the admin can see ID numbers, usernames, emails, roles, and assigned carriers; the admin can also edit or delete users.

***Carrier Page***: Lists all current Carrier users along with their details. Ability to Edit and Delete the Carrier. Add a New User and View Available Roles.

***Shipper Page***: Lists all current Shipper users along with their details. Ability to Edit and Delete the Carrier. Add a New User and View Available Roles.

***Database:*** The Database Control where a SQL backup can be selected to restore the database to a prior state.

***Notifications:*** Shows any current notifications.

Figure 9 – Admin account

***Update User:***  Update the admin’s credentials.

Text, application

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**Figure 10 – Admin Users Table**

### 2.3.1 Add user

Click the **Add a new user** to add a user.

The admin user will be redirected to a page that offers the option to add a user that either has the carrier role or a user that is a non-carrier role (**Figure 11**).

If the admin chooses to add a ***Carrier*** user, they will be redirected to a form near-identical to that seen in **Figure 6**. Alternatively, the admin may add either a ***Master*** or ***Admin*** account by selecting ***Other User***. Doing so will bring the admin to a form page that lets the admin add users to the system (**Figure 12**).

Graphical user interface, text, application

Description automatically generated

**Figure 11 – Admin Add User Home Page**

**Graphical user interface, application, table, website

Description automatically generated**

**Figure 12 – Admin Add User**

### 2.3.2 update user – All accounts

The admin can update a user’s email, role, and assigned carrier quite similarly to how users are added.

Simply click ***Edit User*** to be redirected to the Update User page (**Figure 13**). Here, the admin can also prompt a password reset for the user.

Graphical user interface, application

Description automatically generated

**Figure 13 – Admin Update User**

2.4 UPDATING USER DETAILS

While an administrator has the capability to update all user account information and reset passwords, the users can also update their own emails and passwords.

Graphical user interface, application, table

Description automatically generatedAfter logging in, the home page will display an option ***Update User*** in the side navigation bar (**Figure 14**).

**Figure 14 – Default Home Page for Logged in Carrier user (Arrow On-Left points to Update User tab)**

Upon clicking the ***Update User*** tab, the current user will be redirected to a form where they can update their username, password, and email address (**Figure 15**).

Graphical user interface, website

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**Figure 15 – Update-User-Details Page**

***Carrier Page:*** Lists just the Carriers and their details. Ability to Edit and Delete user. Can click to Add New User and View Available Roles.

***Shipper Page:*** Lists just the Shippers and their details. Ability to Edit and Delete user. Can click to Add New User and View Available Roles.

**Note:** All fields must be properly filled out for a user to be added to the system. Failing to do so will prompt a message indicating which field has the error.

2.5 DATABASE

Admin user has access to the Database Control where a SQL backup can be selected to restore the database to a prior state. (**Figure 16**) Note that there is no confirmation screen/popup for restoring database.

Graphical user interface, text, application

Description automatically generated

Figure 16 – Admin view of Database Restore

* The default backup location is webrouting\backups.
* Backup executes every 20 minutes automatically as shown in **(Figure 17).**

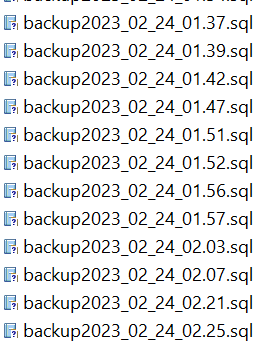


Figure 17 – auto database backup execution format

# 3. contacts

The ***Contacts*** tab redirects **CARRIER** users to a page with that carrier’s list of contacts.

The table contains the name, contact information, and geolocational information for all contacts in the carrier’s book of business (**Figure 18**).

A screenshot of a computer

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**Figure 18 – Contacts Page for Carrier Users**

3.1 ADD CONTACT

To add a contact, Click the ***Add Contact*** Button. This will redirect the user to a form containing the following fields 7for a contact’s information(**Figure 19**):

* **First Name** (Ex. *John*)
* **Last Name** (Ex. Williams)
* **Middle Initial** (Ex. *R*)
* **Email** (Ex. *johnrwilliams@gmail.com*)
* **Street Address 1** First line of address (Ex. *662 Grant Street*)
* **Street Address 2** Second line of address (Ex. *Ste 3000*)
* **City** (Ex. *Las Angeles*)
* **State:** Drop down list of states
* **Zip Code** Six-digit required (Ex. *90210*)
* **Primary Phone #**  (Ex. *310-456-7890*)
* **Work Phone # (if applicable)** (Ex. *310-456-7890*)

Graphical user interface, text

Description automatically generated

**Figure 19 – Form for Carrier to Add a Contact**

3.2 EDIT CONTACT

To change a contact’s information, click the ***Edit*** link for that contact’s row on the table. This will redirect the user to a form identical to **Figure 19.**

3.2 DELETE CONTACT

To delete a contact, click the ***Delete*** link in the table row of the desired contact.

The user will be redirected to a confirmation page to check that the user does indeed want to delete the contact. The contact will not be able to be deleted if it is a part of the system elsewhere.

# 4.Locations

The ***Locations*** tab lands the user on a page displaying all relevant information on locations registered to carriers in the system.

These locations may be trucking depots, fueling stations, maintenance shops, intermediate hubs, etc. **CARRIER** users can use the locations page (**Figure 20**) to view, add, edit, and delete locations associated with their account.

Graphical user interface, text, table

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**Figure 20 – Locations Page for Account ‘Carrier’**

4.1 ADD LOCATION

To add a location, click the ***Add Location*** button.

The user will be redirected to a page with a form (**Figure 21**) containing the following required fields for a location:

* **Name** (Ex. *John’s Warehouse*)
* **Street Address 1** First line of address (Ex. *662 Grant Street*)
* **Street Address 2** Second line of address (Ex. *Ste 3000*)
* **City** (Ex. *Las Angeles*)
* **State:** Drop down list of states
* **Zip Code** Six-digit required (Ex. *90210*)
* **Latitude** (Ex. 40.2837465)
* **Longitude** (Ex. -83.2986357)
* **Carrier** Select the Carrier that owns the location
* **Location Type** (Ex. Warehouse, Hub, Fuel Depot)

Graphical user interface, text

Description automatically generated

**Figure 21 – Form to Add New Location**

4.2 EDIT LOCATION

To edit a location, click the ***Edit*** link on the ***Locations*** page data table (**Figure 20**).

The user will be redirected to a form identical to the ***Add Location*** form seen above in **Figure 21** The user can update all the original fields entered for the location.

4.3 DELETE LOCATION

To delete a location, click the ***Delete*** link on the ***Locations*** page data table (**Figure 20**).

The user will be redirected to a confirmation page (**Figure 22**) where they can select  ***Yes*** to delete the location or ***No*** to keep the location.

If the Location is attached to another object, it cannot be deleted and gives the error: Unable to delete due to dependency conflict.

Graphical user interface, text, application

Description automatically generated

**Figure 22 – Confirmation Page to Delete Locations**

# 5.Vehicles

The ***Vehicles*** tab lands the logged in **CARRIER** user on a page displaying all relevant information on existing vehicles registered to that user (**Figure 23**).

To add a new vehicle, click the ***Add New Vehicle*** button.

Table

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**Figure 23 – Vehicles Home Page for Carrier Accounts**

5.1 ADD VEHICLE

Upon clicking the ***Add New Vehicle*** button on the Vehicles, the user will be redirected to a form page (**Figure 24**) where all relevant fields to a vehicle can be entered.

The fields are as follows:

* + **Plate Number**: Vehicle’s License Plate (Ex. - 0010)
  + **VIN Number:** Vehicle’s 17-character Vehicle Identification Number (Ex. 1G1AF1F57A7192174)
  + **Manufactured Year:** The year the vehicle was manufactured (Ex. 2020)
  + **Vehicle Type:** Choose from a list of the created Vehicle Types (Section 6)
  + **Location:** Where the vehicle is kept when not in use. Selected from a list of the created Locations (Section 4). (Ex. John’s Warehouse)
  + **Carrier:** Selected from a list of the created Carriers (Section 4). The carrier that owns the vehicle (Example: Thangiah Shipping)

Graphical user interface, application

Description automatically generated

**Figure 24 – From to Add a New Vehicle**

5.2 EDIT VEHICLE

To edit a vehicle’s information, click on the ***Edit*** link on the data table found on the Vehicle home page (**Figure 23**)

The user will be brought to a form page identical to the ***Add Vehicle*** form seen in **Figure 24**. Here, the **CARRIER** user can alter any/all information for the specific vehicle they choose to edit.

5.3 DELETE VEHICLE

To delete a vehicle, click on the ***Delete*** link on the data table found on the Vehicle home page (**Figure 23**).

The user will be redirected to a confirmation page to click ***Yes*** or ***No*** to delete or keep the vehicle record.

# 6. Vehicle types

The vehicle Types tab lands the **CARRIER** user on a page (**Figure 25**) containing relevant information on the different kinds of vehicles that are registered with the system.

This page grants **CARRIER** users’ permissions to add, edit, and delete vehicle types on the system.

Table

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**Figure 25 – Vehicle Types Home Page**

6.1 ADD VEHICLE TYPE

To add a vehicle type, click on the ***Add New Type*** button on the data table found on the ***Vehicle Types*** home page. The user will be redirected to a form page (**Figure 26**) used to fill out all relevant information for the vehicle type.

The required fields are as follows:

* + **Type:** The main type of the vehicle (Ex. Freight Truck)
  + **Sub Type:** The sub type of the vehicle (Ex. Dual-Trailer)
  + **Description:** A brief description of the vehicle type
  + **Make:** The make of the vehicle (Example: Peterbuilt)
  + **Model:** The model of the vehicle (Example: Model 579)
  + **Minimum Weight:** The vehicle’s minimum freight weight (Example: 10,000)
  + **Maximum Weight:** The vehicle’s maximum freight weight capacity in lbs. (Example: 40,000)
  + **Capacity:** How much the vehicle can hold (Example: 3000)
  + **Maximum Range:** The maximum range vehicle type is intended for freighting (Example: 1500km)
  + **Restrictions:** Traveling restrictions for vehicle type (Ex. Maximum height for tunnels/overpasses)
  + **Height:** The vehicle’s height in feet (Ex. 12.25)
  + **Empty Weight:** The weight of the unloaded vehicle in lbs. (Ex.8000)
  + **Length:** The length of the vehicle in feet (Ex. 25.5)
  + **Minimum Cubic Weight:** The minimum cubic weight of the vehicle type (Ex. 0)
  + **Maximum Cubic Weight:** The maximum cubic weight of the vehicle type (Ex. 5000)

Graphical user interface, application

Description automatically generated

**Figure 26 – Form for Adding a New Vehicle Type**

6.2 EDIT VEHICLE TYPE

To edit a vehicle type’s information, click on the ***Edit*** link on the data table found on the ***Vehicle Types*** home page (**Figure 25**).

The user will be brought to a form page identical to the ***Add Vehicle*** form seen in **Figure 26**. Here, the **CARRIER** user can alter any/all information for the specific vehicle they choose to edit.

6.3 DELETE VEHICLE TYPE

To delete a vehicle type, click on the ***Delete*** link on the data table found on the ***Vehicle Types*** home page (**Figure 25**).

The user will be redirected to a confirmation page to click ***Yes*** or ***No*** to delete or keep the vehicle type

# 7. Drivers

The ***Drivers*** tab lands the **CARRIER** user on a page displaying all relevant information/credentials on drivers registered with a specific carrier company (**Figure 27**).

**CARRIER** users can add, edit, and delete drivers on this page.

Graphical user interface, text, table

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**Figure 27 – Drivers Home Page for Carrier Users**

7.1 ADD DRIVER

To add a driver, click on the ***Add Driver*** button on the data table found on the ***Drivers*** home page.

The user will be redirected to a form page (**Figure 28**) used to fill out all relevant information for the driver.

The required fields are as follows:

* + **Contact:** Selected from ***Contacts*** list (Section 3). Should match information of the ***Contacts*** record (Ex. John Williams)
  + **Carrier:** Selected from ***Carriers*** list (Section 4). This is the driver’s employer (Ex. Thangiah Shipping)
  + **Vehicle:** Selected from ***Vehicles*** list (Section 7). This is the vehicle the driver drives.
  + **License Number:** The driver’s driver license number (Example: 25 624 867)
  + **License Expiration:** The expiration date of the driver’s license (Example: 05/16/2026)
  + **License Class:** The class of the driver’s license (Example: C)

Graphical user interface

Description automatically generated

**Figure 28 – Form for Carriers to Add Drivers**

7.2 EDIT DRIVER

To edit a driver’s information, click on the ***Edit*** link on the data table found on the ***Drivers*** home page (**Figure 27**)

The user will be brought to a form page identical to the ***Add Driver*** form seen in **Figure 28**. Here, the **CARRIER** user can alter any/all information for the specific driver they choose to edit.

7.3 DELETE DRIVER

To delete a driver, click on the ***Delete*** link on the data table found on the ***Drivers*** home page (**Figure 27**).

The user will be redirected to a confirmation page to click ***Yes*** or ***No*** to delete or keep the driver

# 8. Technicians

The ***Technicians*** tab lands the **CARRIER** user on a page displaying all relevant information/credentials on technicians registered with a specific carrier company (**Figure 29**).

**CARRIER** users can add, edit, and delete technicians on this page.

Table

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**Figure 29 – Technicians Home Page for Carriers**

8.1 ADD TECHNICIAN

To add a technician, click on the ***Add Technician*** button on the data table found on the ***Technicians*** home page.

The user will be redirected to a form page (**Figure 30**) used to fill out all relevant information for the technician.

The required fields are as follows:

* **Contact:** Chosen from the ***Contacts*** list (Section 3). This is the technician the user is adding. (Ex. John Williams)
* **Skill Grade:** A grade indicating level of proficiency for the technician (Ex. B)

Graphical user interface, application

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**Figure 30 – Form for Carriers to Add Technicians**

8.2 EDIT TECHNICIAN

To edit a technician’s information, click on the ***Edit*** link on the data table found on the ***Technicians*** home page (**Figure 29**)

The user will be brought to a form page identical to the ***Add Technician*** form seen in **Figure 30**. Here, the **CARRIER** user can alter any/all information for the specific technician they choose to edit.

8.3 DELETE TECHNICIAN

To delete a technician, click on the ***Delete*** link on the data table found on the ***Technicians*** home page (**Figure 29**).

The user will be redirected to a confirmation page to click ***Yes*** or ***No*** to delete or keep the technician.

# 9. Maintenance orders

The ***Maintenance*** tab lands the **CARRIER** user on a page displaying all relevant information on maintenance orders submitted by the user’s carrier company (**Figure 31**).

**CARRIER** users can add, edit, and delete maintenance orders on this page.

Table

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**Figure 31 – Maintenance Order Home Page for Carriers**

9.1 ADD MAINTENANCE ORDER

To add a maintenance order, click on the ***Add New Order*** button on the data table found on the ***Maintenance Orders*** home page.

The user will be redirected to a form page (**Figure 32**) used to fill out all relevant information for the maintenance order.

The required fields are as follows:

* **Technician:** The technician assigned to the order (Ex. John Walker)
* **Scheduled Date:** The date maintenance is to take place (Ex. 07/13/2022)
* **Details:** A description of the item to be completed (Ex. Battery Replacement)
* **Service Type:** Valid service types are repair, maintenance, replace, etc.
* **Cost:** Quote for total cost (parts & labor) of the job (Ex. $4995.99)
* **Status:** Whether the job is either ***Pending*** or ***Completed***
* **Vehicle:** The specific vehicle requiring maintenance
* **Maintenance Type:** A general description of the location of maintenance being performed (Ex. Engine)

Graphical user interface, application

Description automatically generated

**Figure 32 – Form for Carriers to Submit Maintenance Orders**

9.2 EDIT MAINTENANCE ORDER

To edit a maintenance order’s information, click on the ***Edit*** link on the data table found on the ***Maintenance Order*** home page (**Figure 31**)

The user will be brought to a form page identical to the ***Add New Order*** form seen in **Figure 32**. Here, the **CARRIER** user can alter any/all information for the specific Maintenance Order they choose to edit.

9.3 DELETE MAINTENANCE ORDER

To delete a maintenance order, click on the ***Delete*** link on the data table found on the ***Maintenance Order*** home page (**Figure 31**).

The user will be redirected to a confirmation page t click ***Yes*** or ***No*** to delete or keep the maintenance order.

# 10. Carriers

The ***Carriers*** tab show all relevant (depends on user type) information on carriers that are registered in the system.

It is accessible by **MASTER LIST** and **CARRIER** users.

The view for Master List accounts includes all carriers and their information (**Figure 33**).

Carrier accounts can edit their own carrier information. (**Figure 34**).

**Table

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**Figure 33 – Carriers Table (Master List View)**

Graphical user interface, text, application, table, Excel

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**Figure 34 – Carriers Table (Carrier View)**

10.1 DETAILS ON ADDING CARRIERS

**CARRIER** users are only created through registering a **CARRIER** account with the process detailed in Section 2.2. Upon successful creation of a **CARRIER** account, the carrier-specific information fields will appear in the Master List view of the Carriers table (**Figure 30**) in the ***Carriers*** list. The carrier fields are as follows:

* **Carrier Name:** The name of the carrier company (Example: *Thangiah Shipping*)
* **SCAC:** The 2-4 character Standard Carrier Alpha Code; each carrier has one (Example: *GZBO*)
* **LTL:** Indicates if carrier is capable of Less Than Truckload shipping (Example: *Yes*)
* **FTL:** Indicates if carrier is capable of Full Truckload shipping (Example: *Yes*)
* **Pallets:** The maximum number of pallets that a carrier’s largest vehicle type can ship at once (Example: *125*)

10.2 EDIT CARRIER

**CARRIER** users are permitted to edit their own carrier information. To edit carrier information, click the ***Edit*** link in the carrier table on the ***Carriers*** page. The user will be redirected to a form (**Figure 35**) where they can alter all carrier fields.

Table

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**Figure 35 – Form for Updating Carriers**

# 11. Shipments and bids

The ***Shipments*** tab is available to **CARRIER**, **SHIPPER**,and **MASTER LIST** users.

Shipments are the key component of the logistics pipeline in the System that shippers create for carriers to bid on for the purpose of handling commerce.

Upon clicking the ***Shipments*** tab, all users are taken to a page where they can choose between ***Available Shipments***, ***Accepted Shipments, Frozen Shipments, and Accepted Shipments*** (**Figure 36**). The differences between role access as well as the bidding system are detailed in the following subsections.

Text

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**Figure 36 – Shipments Home Page for a Carrier Account – Page Content is Identical for Other Roles with Different Tabs on Navigation Bar**

11.1 SHIPMENTS - OVERVIEW

Shipments are accessible to varying degrees by the **SHIPPER**, **CARRIER**, and **MASTER LIST** roles.

Each role’s ***Available Shipments*** and ***Accepted Shipments*** pages displays a different subset of shipment information.

The exhaustive list of shipment attributes is as follows:

* **ID:** System identification number of the shipment (Ex. 5)
* **Client:** The shipper entity commerce is being shipped for by the carrier. (Ex. Marrakesh Shipping)
* **Carrier:** The carrier who has accepted the freighting job of a shipment (Ex. Thangiah Logistics)
* **SCAC:** The 2–4-character Standard Carrier Alpha Code (Ex. 5ATS)
* **Client Mode:** Whether the client requires FTL or LTL for the shipment
* **Ship Date:** The scheduled date of the shipment (Ex. 07/15/2023)
* **Freight Bill Number:** The number identifying the invoice document of the freight (Ex. 2331516178)
* **Paid Amount:** The accepted bid price for the shipment (Ex. $999.99)
* **Full Freight Terms:** Status on if shipment is ***Available*** or ***Accepted***
* **Commodity Class:** Class of the commodities being shipped (Ex. 12)
* **Commodity Pieces:** Number of pieces being shipped (Ex. 500)
* **Commodity Paid Weight:** Weight of the shipment (Ex. 7500)
* **Shipper City:** Starting city commerce is being shipped from (Ex. Cincinnati)
* **Shipper State:** Starting state commerce is being shipped from (Ex. OH)
* **Shipper Zip:**  Starting zip code commerce is being shipped from (Ex. 23066)
* **Shipper Latitude:** Starting Latitude (Ex. 40.2828211)
* **Shipper Longitude:** Starting Longitude (Ex. -79.4649991)
* **Consignee City:** Destination city commerce is being shipped to (Ex. Scranton)
* **Consignee State:** Destination state commerce is being shipped to (Ex. PA)
* **Consignee Zip:** Destination zip code commerce is being shipped to (Ex. 19202)
* **Consignee Latitude:** Destination latitude (Ex. 40.9779662)
* **Consignee Longitude:** Destination longitude (Ex. -80.6754588)

11.2 SHIPMENTS - SHIPPER

The **SHIPPER** accounts are the accounts that create shipments.

**The SHIPPER** role’s interactions with shipments are discussed below.

The Shipments main page (**Figure 37**) allows the shipper to select shipments by their ***status***:

Graphical user interface, text

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Figure 37 – Shipper account Shipments Main page

### 11.2.1 PENDING sHIPMENTS - sHIPPER

***Pending Shipments:*** Interfaces with a list of shipments in Pending status. These are the shipments that have been created but not yet ***Pushed into Auction.*** (**Figure 38**)

* New Shipments can be created by clicking the ***Add New Shipment*** button. It will redirect the user to the ***Add Shipment*** form page (**Figure 39**) where the shipment information can be entered.
* The user can edit that information by clicking the ***Edit*** link in the row of the desired shipment. The link redirects the user to the ***Update Shipment*** page (**Figure 40**) where all information fields can be edited.
* Graphical user interface, application

  Description automatically generatedThe user can also ***Upload an Excel File*** to fill in the information. (Detailed in 11.2.3)

Figure 38 – Shipper View of the Pending Shipments Page

Graphical user interface, text

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**Figure 39 – Form to Add a New Shipment**

Graphical user interface, text

Description automatically generated

**Figure 40– Form to Update an Existing Shipment**

### 11.2.2 Upload Excel File – sHIPPER

The **SHIPPER** user can also click the ***Upload an Excel File*** button on the ***Pending Shipments*** page to navigate to a page (**Figure 41**) that allows multiple shipments to be uploaded in the form of a csv file. **NOTE:** The csv **MUST** be in the **EXACT** format given in the template file.

Graphical user interface, text, application

Description automatically generated

**Figure 41 – Shipper Page to Upload CSV Files**

### 11.2.3 Availbale/created sHIPMENTS – sHIPPER

***Available Shipments:*** Interfaces with the list of shipments in Available status. These are the shipments that are currently up for auction. (THIS FEATURE WILL PROBABLY BE CHANGED ONCE THE AUCTIONING PAGE IS WOKRING) Here, the shipper can View the bids on the shipment and accept them. Can also Edit and Delete the shipments.

Here, the **SHIPPER** role has the capability to view and accept bids placed by **CARRIER** users. Clicking the ***View Bids*** link will redirect the user to the ***Bids***page (**Figure 42**) for the selected shipment. More details about the bidding system are found in Section 11.2.6.

Application

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Figure 42 – Shipper view of Available Shipments

### 11.2.4 Frozen sHIPMENTS – SHIPPER

***Frozen Shipments:*** Interfaces with the list of shipments in Frozen status. The Frozen Shipments page (**Figure 43**) shows the frozen shipments. Admin has the capability of freezing shipments -

A picture containing application

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Figure 43 – Shipper view of Frozen Shipments

### 11.2.5 aCCEPTED sHIPMENTS – SHIPPER

***Accepted Shipments:*** Interfaces with the list of shipments in Accepted status. These are shipments after bids have been accepted and are ready to be shipped. The shipment details can be viewed as well as the bid history.

The **SHIPPER** account view of the ***Accepted Shipments*** page (**Figure 44)** displays a table containing that user’s shipment records with associated information. The fields *Carrier Name, Vehicle, Freightbill Number, Full Freight Terms,* and *Paid Amount* are additions to the ***Created Shipments*** page and come from the **CARRIER** account associated with accepting the shipment. More details are available in Section 11.3.

Graphical user interface, text, application, table, Excel

Description automatically generated

**Figure 44 – Shipper View of the Accepted Shipments Page**

### 11.2.6 view / accept bids – SHIPPER

**SHIPPER** users are responsible for accepting bids placed on shipments by **CARRIER** users. The user does this by clicking on the ***View Bids*** link found on the ***Available Shipments*** page (**Figure 47)**.

The user will be redirected to the ***Bids*** page (**Figure 46**), where they can see all bids that have been placed on the shipment.

Clicking ***Accept Bid*** will grant the shipping job to the carrier who placed the bid at the price of the bid, and it will move the shipment to the ***Accepted Shipments*** page. Each bid contains the following information:

* **Shipment ID:** ID attached to the shipment
* **Price:** Bid amount
* **Date:** Date bid was placed
* **Time:** Time bid was placed
* **Bidder: CARRIER** account that placed the bid

Table, Excel

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**Figure 46 – Shipper View of Bids Page**

11.3 SHIPMENTS - CARRIER

The **CARRIER** accounts are the accounts that bid on shipments. They are responsible for freighting the shipments from source to destination. The interactions **CARRIER** accounts have with shipments are detailed below.

### 11.3.1 cREATED sHIPMENTS - CARRIER

The **CARRIER** account view of the ***Available Shipments*** page (**Figure 47**) displays a table containing that user’s shipment records with associated information. Here, the user can view all bids on a pending shipment or add a bid on one themselves.

Table

Description automatically generatedThe user can edit that information by clicking the ***Edit*** link in the row of the desired shipment. The link redirects the user to the ***Update Shipment*** page where all information fields can be edited.

**Figure 47 – Carrier View of the Created Shipments Page**

### 11.3.2 Place/Edit Bids - CARRIER

The **CARRIER** user can place bids on shipments by clicking the ***Add Bid*** link. It will redirect the user to the ***Add Bid*** form page (**Figure 48**) from the Available Shipments pagewhere the bid price can be entered.

Graphical user interface

Description automatically generated

**Figure 48 – Form to Add a Bid**

The user can edit that information by clicking ***View Bids*** and then ***Edit*** link in the row of the desired shipment on the ***Available Shipments*** *page (***Figure 47***)*. The link redirects the user to the ***Update Bid*** page (**Figure 49**) where the bid price and shipment information can be edited.

Graphical user interface

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**Figure 49 – Form to Edit a Bid**

### 11.3.3 aCCEPTED sHIPMENTS – CARRIER

The **CARRIER** account view of the ***Accepted Shipments*** page (**Figure 50**) displays a table containing that user’s accepted shipment records associated with that account. These are the jobs the carrier company has accepted. On this page, the user can view and edit the shipment details.

Graphical user interface, application, table

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**Figure 50 – Carrier View of Accepted Shipments for that Carrier**

To view the details of a shipment, click the ***View All Details*** link on the ***Accepted Shipments*** page (**Figure 50**). The user will be redirected to a page detailing all aspects of the shipment (**Figure 51**). It also includes Google Maps links to both locations by coordinates as well as the route between locations (*At Page Bottom*).

Graphical user interface, text, application, email

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**Figure 51 – Carrier View of Shipment Details**

11.4 SHIPMENTS – MASTER LIST

The **MASTER LIST** role can view and manipulate the following in Shipments:

Application

Description automatically generated with medium confidence***Pending Shipments*** is a list of all shipments pending in the system regardless of what shipper created the shipment. Ability to Edit, Delete, Freeze, and Push the shipment to auction (**Figure 52**).

Figure 52 – Master View of Pending Shipments

***Available Shipments*** lists the shipments in auction (**Figure 53**). Ability to do the following:

* **View Bids**: view all bids for all shipments in auction.
* **Reset Bids:** Deletes all bids for the shipment.
* **Edit:** (WORK IN PROGRESS)
* **Delete:** Delete the shipment.
* **Freeze:** Suspends the shipment from being in auction until **MASTER** user unfreezes it.
* Application

  Description automatically generated with low confidence**Force End Auction:** Forces the auction to end. The lowest bidder is assigned the shipment.

Figure 53 – Master View of Available Shipments

***Frozen Shipments*** lists the shipments that are currently Frozen (**Figure 54**). Ability to View and Reset Bids, Edit, Delete and Unfreeze shipments. \*If a shipment is put int a Freeze, it no longer shows in the auction.

* **View Bids:** view all bids for all shipments in auction.
* **Edit:** (WORK IN PROGRESS)
* **Unfreeze:** Unfreeze the shipments that were in frozen status
* Application, table, Word

  Description automatically generated with medium confidence**Reset Bids:** Delete all bids for a shipment in auction.

Figure 54 – Master View of Frozen Shipments

***Accepted Shipments*** page is a list of all shipments accepted by all carriers. shipment details and bids, edit (work in progress), Delete shipment, and Reset Bids. (**Figure 55**)

* **View All Details:** Shipment Details page is displayed.
* **View Bids**: view all bids for all shipments in auction.
* **Edit:** (WORK IN PROGRESS)
* **Delete:** Delete the shipment.
* **Reset Bids:** Deletes all bids for the shipment.

Calendar

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Figure 55 – Master View of Accepted Shipments

# 12. Routes

The ***Routes*** tab is available to **CARRIER** and **MASTER LIST** user accounts to manage shipments associated with specific vehicles and specific dates/times. Both roles can display scheduled shipments for the vehicle in aggregate, if the vehicle has numerous, upcoming shipments (**Figure 56**).

Graphical user interface, text, application

Description automatically generated

**Figure 56 – Routes Page**

# 13. figures

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