Web Routing

Evaluation Manual

Slippery Rock University

Fady Aziz [FAA1002@SRU.EDU](mailto:FAA1002@SRU.EDU)

IAN BLACK [IMB1007@SRU.EDU](mailto:IMB1007@SRU.EDU)

LOGAN KIRKWOOD [LLK1005@SRU.EDU](mailto:LLK1005@SRU.EDU)

Contents

[1. Problems 3](#_Toc101371008)

[2. Cleanup 3](#_Toc101371009)

[3. Improvement / Expansion 4](#_Toc101371010)

# 1. Problems

1. Carrier excel files cannot be loaded correctly due to Carriers accounts being created during sign up. The file will load into the database. However, the Carriers will not have a user connected to them. Without a user connected the carrier cannot be accessed.

2. Admins can delete a user associated with a Carrier. This will leave the Carrier without a user and the Carrier cannot be accessed. Admins have the ability to add a Carrier to a user, but there is no current way to create a Carrier role user with no Carrier link.

3. No user can delete a Carrier. This is an issue when a Carrier no longer is active. Our program has code for the deletion of a Carrier. However, no user roles have authority for deletion. This is because we would not want one user associated with a Carrier to have the ability to delete the Carrier for everyone. This would be bad practice considering a fired employee could delete the account.

4. When having the delete Carrier method implemented for a role it will not allow a Carrier to be deleted if there are bids, shipments, vehicles, and locations associated with the Carrier. When deleting a Carrier account, we would want all these to be deleted as well. To go through the application and delete each dependent entity would be very time consuming.

5. Carriers have the ability to delete/edit all vehicles, locations, maintenance orders, and drivers. The program should not allow Carriers to delete or edit other Carrier’s entities.

6. Carriers can be created with the same name and SCAC code. Carriers should not be able to be created if the name or SCAC code already exists.

7. Shipment shipping dates can be selected at any given date. The shipper can select any date in the past. Shipper should only be allowed to choose a current or future date for their shipments.

# 2. Cleanup

1. Carrier excel file issue could be fixed by allowing a user to select an existing Carrier to link with when creating an account. However, this is not best practice because it will allow anyone to join any Carrier they want. Could implement Carrier accounts which have their own password. This way a user would have to know the sign in for the Carrier. Then when the file is read, it would link to an existing Carrier name that is in the excel file. Currently, Admin roles can edit a user to a different Carrier including ones without a user. This demands having an admin ready to constantly add and assign new users to existing Carriers. This is intended as a quick solution for the problem.

2. When Admins create a Carrier user, they should have the option to skip linking a Carrier to the account. This will then leave an account free to be linked to an existing or abandoned Carrier.

3. As stated in solution 1. If we were to create accounts for Carriers, we could implement an Owner role for a Carrier. This owner would be given the ability to close out their Carrier account. Without this implementation there is a quick solution of allowing an admin to delete Carriers. Which could be easily implemented by giving the admin role the authority to delete Carriers.

4. Implement a loop that will delete each entity that is associated with Carrier. Have the shipment entity just removed the Carrier link instead of being deleted so that the shipment could be bid on once again.

5. The application has a sorting method for determining what bids and shipments a Carrier can see and work on depending on the user logged in. This same method would need implemented into the other entities. Locations, Vehicles, and Drivers already have links to Carriers so implementing the method should be simple. Maintenance Orders and Technicians however do not have links and would need created.

6. This could be fixed by implementing a method that searches for an existing Carrier name/SCAC code in the carrier repository. If either exist, then the user will be prompted to change the name or SCAC code.

7. Implementing a block on selecting past dates would fix this issue.

# 3. Improvement / Expansion

1. Routing for our application currently shows all shipments to be shipped on a certain date. However, it does not come up with the most efficent route.

2. Currenntly shipment addresses can be used on Google maps by clicking a link. This link will send you to Google Maps at the address if it exists. Implmenting a way to select a location in Google Maps and sending the loactions data to the shipments attriubutes would be effective for making sure the user enters the correct information.

3. More security for Carriers. Making a sign in for a Carrier account will limit the users who can access the Carrier.

4. Filters for all the pages. Filters would help all roles find certain data. Currently all data on the page is listed by ID number. With many different Ids it would be hard to find what the user was looking for.

5. Search bar on all pages. This would help a user find a specific item they are looking for. User might not know the ID of an item but might know another attribute. Without knowing the ID, it could be hard to find an item considering it could be anywhere on the page.

6. Having an alert that asks the user if they are sure they want to complete the action. This would be very helpful for deletions. This could stop a user from accidently deleting an item.

7. Add a recovery system for forgotten passwords or usernames. In the current build if a user were to forget their username/password or was hacked there would be no way to recover the account.