Use Cases

Use Case 1: Login

Actors:

- Primary
  Clerk/Manager

Preconditions:

- No preconditions apply

Postconditions:

- User is now logged in to system

Success scenario:

1. Clerk enters log in credentials
2. Client sends credentials to the server to be verified
3. Server returns log in resolution and user details back to client
4. Client displays user information and unlocks GUI for use

Exception Scenario (3a):

1. Server returns user input error back to client
2. Client displays error to user
3. Client reopens the log in panel for user

Use Case 2: Log out

Actors:

- Primary
  Clerk/Manager

Preconditions:

- User is logged in to system

Postconditions:

- User is no longer logged in to system

Success scenario:

1. User clicks the log out button
2. Client logs user out
3. Client displays the login page to the user

Use Case 3: Customer Price Update

Actors:

- Primary
  Clerk/Manager

Preconditions:

- User is logged into system

Postconditions:

- No Postconditions

Success scenario:

1. User selects the customer price update button from the system button tray
2. Client displays customer price update fields to user
3. User inputs relevant data for the update
4. User submits the data
5. Client validates the data being sent
6. Client send the event data to the server to process
7. Server processes event
8. Server return a confirmation to the client
9. Client displays confirmation event to the user
10. Server logs the event in the database

Exception Scenario (5a):

1. Client finds data to be invalid
2. Client notifies the user of the areas where invalid entries are and prompts re-entry

Use Case 4: Transport Cost Update

Actors:

- Primary
  Clerk/Manager

Preconditions:

- User is logged into the system

Postconditions:

- No Postconditions

Success scenario:

1. User selects the transport cost update button from the button tray
2. Client displays transport cost update fields to user
3. User inputs relevant transport cost update data
4. User submits form
5. Client validates the form inputs
6. Client sends the event to the server
7. Server processes the event and updates route map
8. Server returns confirmation to the client
9. Client displays confirmation event to user
10. Server logs the event in database

Exception Scenario (5a):

1. Client finds data to be invalid
2. Client notifies the user of the areas where invalid entries are and prompts re-entry

Use Case 5: Mail Delivery Request

Actors:

- Primary
  Clerk/Manager

Preconditions:

- User is logged into the system

Postconditions:

- No Postconditions

Success scenario:

1. User selects the mail delivery button from the button tray
2. Client displays mail delivery fields to user
3. User inputs relevant mail delivery data
4. User submits form
5. Client validates the form inputs
6. Client sends the event to the server
7. Server calculates cheapest and fastest routes for the delivery
8. Server sends possible cheapest and fastest routes back to client
9. Client asks user to select route to take
10. User selects route
11. Client sends route to server
12. Server returns confirmation message back to the client
13. Client displays confirmation back to user

Exception Scenario (5a):

1. Client finds data to be invalid
2. Client notifies the user of the areas where invalid entries are and prompts re-entry

Exception Scenario (7a):

1. Server finds no possible routes for the delivery
2. Server returns error to the client
3. Client displays route error to user and prompts re-entry

Use Case 6: Transport Route Discontinuation

Actors:

- Primary
  Clerk/Manager

Preconditions:

- User is logged into the system

Postconditions:

- No Postconditions

Success scenario:

1. User selects the transport discontinuation button from the button tray
2. Clients displays transport discontinuation fields to user
3. User inputs relevant transport discontinuation data
4. User submits data
5. Client validates form inputs
6. Client sends event to the server
7. Server processes the event and updates the route map
8. Server sends confirmation message back to client
9. Client displays confirmation message to user

Exception Scenario (5a):

1. Client finds data to be invalid inputs
2. Client notifies the user of the invalid areas input and prompts re-entry

Use Case 7: View Accounting Figures

Actors:

- Primary
  Clerk/Manager

Preconditions:

- User is logged into the system

Postconditions:

- No Postconditions

Success scenario:

1. User selects the accounting figures button from the button tray
2. Client requests accounting figures from the server
3. Server calculates accounting figures from events
4. Server send accounting figures back to client
5. Client displays business figures to user

Use Case 8: View Mail Statistics

Actors:

- Primary
  Clerk/Manager

Preconditions:

- User is logged into the system

Postconditions:

- No Postconditions

Success scenario:

1. User selects the mail statistics button from the button tray
2. Client displayds mail statistics inputs to the user
3. User inputs relevant mail statistics options
4. User selects query button
5. Client sends form data to the server
6. Server calculates mail statistics
7. Server sends statistics back to client
8. Client displays statistics to the user

Use Case 9: View Event Logs

Actors:

- Primary
  Manager

Preconditions:

- Manager is logged into the system

Postconditions:

- No Postconditions

Success scenario:

1. Manager selects event navigation button from the button tray
2. Client requests most recent event data from server
3. Server calculates business figures for most recent event
4. Server returns most recent event data and statistics to client
5. Client displays most recent event and data to user
6. Client displays number of events and navigation option to user

Use Case 10: View Critical Routes

Actors:

- Primary
  Manager

Preconditions:

- Manager is logged into the system

Postconditions:

- No Postconditions

Success scenario:

1. Manager selects critical routes button from button tray
2. Client requests critical event data from server
3. Server calculates list of critical routes
4. Server returns critical route list to client
5. Client displays list of critical routes to user