How to use refreshApex to refresh the list in LWC

In this post, we will see the how to refresh the list in lwc using refreshApex concept.

List of topics covered in this post as below.

- Display the contacts related to selected Account with sortable column & row actions
- Adding new button on top of the account to create new contact
- if user creating the new contact using new button ,the contact list will update automatically.
- if user deleting the any contact using row actions, the contact list will update automatically.

In this logic am using using apex class to create, delete & return the existing contacts.

To refresh the list, have added the import statement refreshApex in lwc js. if user creating/deleting the contact the cache data becomes stale, so after the creation/deletion method just call the refreshApex to query the server for updated data and refresh the cache.

Apex class:

```
ublic with sharing class ContactUtilities{
  @AuraEnabled(Cacheable = true)
  public static List<Contact> getContacts(Id sourceAccount){
     return [SELECT Id, Name, Account.Name, LastName, FirstName, Email, Phone, MobilePhone
             From Contact where AccountId = :sourceAccount];
  @AuraEnabled
  public static void deleteContacts(list<Id> deleteContactIds){
     list<Contact> listContactToDelete = new list<Contact>();
     for (Id idContact : deleteContactIds){
         listContactToDelete.add(new Contact(Id = idContact));
     if (!listContactToDelete.isEmpty()){
         delete listContactToDelete;
  @AuraEnabled
 public static void addContact(string firstName, string lastName, String email,id acntId){
     Contact con = new Contact();
     con.FirstName = firstName;
     con.LastName = lastName;
     con.Email = email;
     con.AccountId = acntId;
     try{
         insert con;
     } catch (Exception ex){
         throw new AuraHandledException(ex.getMessage());
```

Lightning Web Component

conatctListViewWithRefreshApex.html

```
<template if:true={emptyList}>
            data={data} columns={columns} key-field="id" show-row-number-column
               hide-checkbox-column="true" onrowaction={handleRowActions} sorted-by={sortBy}
                sorted-direction={sortDirection} onsort={handleSortdata}></lightning-datatable>
        </template>
        <template if:false={emptyList}>
            There is no contacts
        </template>
    <div if:true={showLoadingSpinner}>
        dightning-spinner alternative-text="Loading" size="large"></lightning-spinner>
    </div>
    <!-- Detail view modal -->
    <template if:true={ShowModal}>
        <section role="dialog" tabindex="-1" aria-labelledby="modal-heading-01" aria-modal="true"</pre>
            aria-describedby="modal-content-id-1" class="slds-modal slds-fade-in-open">
            <div class="slds-modal__container">
               <header class="slds-modal_header">
                   <button class="slds-button slds-button_icon slds-modal__close slds-button_icon-inverse"</pre>
                       title="Close" onclick={closeModal}>
                       dightning-icon icon-name="utility:close" alternative-text="close" variant="inverse"
                           size="small"></lightning-icon>
                    <h2 id="modal-heading-02" class="slds-text-heading_medium slds-hyphenate modalHeading"</pre>
                       if:true={editRecord}> Update Contact</h2>
                    <h2 id="modal-heading-0" class="slds-text-heading_medium slds-hyphenate modalHeading"</pre>
                       if:true={newRecord}>New Contact</h2>
               <!-- showing record edit form -->
                <div if:true={isEditForm} class="slds-theme_default">
                    <lightning-record-edit-form layout-type="Full" object-api-name="Contact" record-id={currentRecordId}>
                       dightning-messages></lightning-messages>
                       <div if:true={error}>
                           {error}
                       </div>
                       <div class="slds-col slds-size_1-of-1">
                           dightning-input-field field-name="FirstName" onchange={firstNameChange}>
                           </lightning-input-field>
                       <div class="slds-col slds-size_1-of-1">
                           dightning-input-field field-name="LastName" onchange={lastNameChange}>
                           </lightning-input-field>
                       </div>
                       <div class="slds-col slds-size_1-of-1">
                           <lightning-input-field field-name="Email" onchange={emailChange}>
                           </lightning-input-field>
                       </div>
                       dightning-button class="slds-m-top_small" variant="brand" name="update"
                                  label="save" onclick={handleSubmit}></lightning-button>
                           dightning-button class="slds-m-top_small" variant="brand" type="text"
                                  label="Cancel" onclick={closeModal}></lightning-button>
                       </lightning-record-edit-form><br/>>
            </div>
        </section>
        <div class="slds-backdrop slds-backdrop open"></div>
    </template>
 </lightning-card>
template>
```

conatctListViewWithRefreshApex.js

```
mport { LightningElement, track, wire, api } from 'lwc';
```

```
/Import Apex methods
import getContatcs from '@salesforce/apex/ContactUtilities.getContacts';
import deletecontact from '@salesforce/apex/ContactUtilities.deleteContacts';
import createContact from '@salesforce/apex/ContactUtilities.addContact';
import { ShowToastEvent } from 'lightning/platformShowToastEvent';
import { refreshApex } from '@salesforce/apex';
import { NavigationMixin } from 'lightning/navigation';
 onst actions = [
   { label: 'Delete', name: 'delete' }
 onst columns = [
   { label: 'First Name', fieldName: 'FirstName', type: "string", sortable: true },
   { label: 'Last Name', fieldName: 'LastName', type: "string", sortable: true },
   { label: 'Email', fieldName: 'Email', type: "email", sortable: true },
       type: 'action',
       typeAttributes: {
           rowActions: actions,
           menuAlignment: 'right'
export default class ConatctListViewWithRefreshApex extends NavigationMixin(LightningElement) {
   // reactive variable
   @api recordId;
   @track data;
   @track columns = columns;
   @track record = [];
   @track ShowModal = false;
   @track currentRecordId;
   @track isEditForm = false;
   @track showLoadingSpinner = false;
   @track newRecord = false;
   @track editRecord = false;
   @track viewRecord = false;
   @track sortBy;
   @track sortDirection;
   @track emptyList = false;
   @track error;
   @track firstName;
   @track lastName;
   @track email;
   refreshTable;
   // retrieving the data using wire service
   @wire(getContatcs, { sourceAccount: '$recordId' })
   relations(result) {
       this.refreshTable = result;
       if (result.data) {
           this.data = result.data;
           this.emptyList = true;
   handleSortdata(event) {
       // field name
       this.sortBy = event.detail.fieldName;
       // sort direction
       this.sortDirection = event.detail.sortDirection;
       // calling sortdata function to sort the data based on direction and selected field
       this.sortData(event.detail.fieldName, event.detail.sortDirection);
   sortData(fieldname, direction) {
       // serialize the data before calling sort function
       let parseData = JSON.parse(JSON.stringify(this.data));
       let keyValue = (a) => {
           return a[fieldname];
```

```
// cheking reverse direction
   let isReverse = direction === 'asc' ? 1 : -1;
   // sorting data
   parseData.sort((x, y) => {
       x = keyValue(x) ? keyValue(x) : ''; // handling null values
       y = keyValue(y) ? keyValue(y) : '';
       // sorting values based on direction
       return is Reverse * ((x > y) - (y > x));
   });
   this.data = parseData;
handleRowActions(event) {
   let actionName = event.detail.action.name;
   let row = event.detail.row;
   switch (actionName) {
       case 'delete':
           this.deleteRelations(row);
           break;
//To create new record
createNewRecord() {
   // open modal box
   this.currentRecordId = '';
   this.ShowModal = true;
   this.isEditForm = true;
   this.newRecord = true;
// handleing record edit form submit
handleSubmit() {
   createContact({ firstName: this.firstName, lastName: this.lastName, email: this.email, acntId: this.recordId })
       .then(result => {
           this.handleSuccess();
       .catch(error => {
           this.error = error.body.message;
       });
// refreshing the datatable after record edit form success
handleSuccess() {
   // closing modal
   this.ShowModal = false;
   // showing success message
   if (this.newRecord === true) {
       this.dispatchEvent(new ShowToastEvent({
           message: 'Contact Created sucessfully',
           variant: 'success'
       }));
   if (this.newRecord === false) {
       this.dispatchEvent(new ShowToastEvent({
           message: 'Contact updated sucessfully',
           variant: 'success'
       }));
   return refreshApex(this.refreshTable);
deleteRelations(currentRow) {
   let currentRecord = [];
   currentRecord.push(currentRow.Id);
   this.showLoadingSpinner = true;
   // calling apex class method to delete the selected contact
   deletecontact({ deleteContactIds: currentRecord })
        .then(result => {
           this.showLoadingSpinner = false;
```

```
// showing success message
           this.dispatchEvent(new ShowToastEvent({
               message: 'Contatact Deleted sucessfully',
               variant: 'success'
           }));
           // refreshing table data using refresh apex
           return refreshApex(this.refreshTable);
       })
       .catch(error => {
           this.dispatchEvent(new ShowToastEvent({
               message: error.message,
               variant: 'error'
           }));
       });
firstNameChange(event) {
   this.firstName = event.target.value;
   this.error = '';
lastNameChange(event) {
   this.lastName = event.target.value;
   this.error = '';
//Event to track the Email field
emailChange(event) {
   this.email = event.target.value;
   this.error = '';
// closing modal box
closeModal() {
   this.ShowModal = false;
   this.newRecord = false;
   this.editRecord = false;
   this.viewRecord = false;
   this.error = '';
```

conatctListViewWithRefreshApex.xml

GitHub:

https://github.com/rcsaravananmkd/Saravanan/tree/master/LWC/conatctListViewWithRefreshApex

Demo :