

This is the part of most recent ERP web application for the client.

The request was to implement the creation of new customer and ability to maintain existing one. To implement this requirement for front end development were used Telerik Kendo UI, JavaScript, JQuery, AngularJS, HTML5 and CSS.

The screenshot shows a 'Création de client' (Create Customer) form. The form includes the following fields and controls:

- Bureau**: A dropdown menu.
- Nom ***: A text input field.
- Recherche d'adresse**: A text input field with the placeholder 'Tapez votre adresse ici...' and an 'Entrer l'adresse' button.
- Ligne d'adresse 1 ***: A text input field.
- Ligne d'adresse 2**: A text input field.
- Ville ***: A text input field.
- Code Postal ***: A text input field.
- Pays ***: A text input field.
- Province ***: A text input field.
- Téléphone principal ***: A text input field.
- Langue ***: A dropdown menu with 'Anglais' selected.
- Statut de crédit**: A dropdown menu with 'EXCELLENT' selected. This field is highlighted with a green border.
- Terme**: A dropdown menu with '50% imm. / 50% reception certificat' selected.
- Devise**: A dropdown menu with 'Canadian dollar' selected.
- Taxe 1**: A dropdown menu with 'BC Sales Tax' selected.
- Taxe 1 Exmp #**: A checkbox and a text input field.
- Taxe 2**: A dropdown menu with 'BC Sales Tax' selected.
- Taxe 2 Exmp #**: A checkbox and a text input field.
- Type de client ***: A dropdown menu with 'Client de facturation seulement' selected.
- Buttons**: 'Sauvegarder' (Save) and 'Annuler' (Cancel) buttons.

Pieces of the view cshtml which served this window:

```
<td colspan="3">
  <div class="form-group">
    <input id="CustomerName" name="CustomerName" class="k-input k-textbox" ng-class="{ 'has-error': submitted, 'no-error': CreateCustomerForm.CustomerName.$valid}"
      type="text" maxlength="60" ng-model="Customer.Name" style="width:520px; min-width:520px;" required />
  </div>
</td>

<td>
  <span>{{Localization.CreditStatus}}</span>
</td>
<td colspan="3">
  <select kendo-drop-down-list
    k-data-text-field="'Description'"
    k-data-value-field="'Id'"
    k-data-source="CreditStatus"
    ng-model="Customer.CreditStatusId"
    ng-change="ChangeCreditStatusColor()"
    style="width: 100%;"
    id="CreditStatusId"></select>
</td>
```

CSS using for mandatory (.required) and validation field on Submit button click:

```
[-].form-group {  
  |   margin-bottom: 0px;  
  | }  
  
[-].has-error {  
  |   border: 1px solid #ff0000;  
  | }  
  
[-].no-error {  
  |   border: 1px solid #85b1b1;  
  | }  
  
[-].required:after {  
  |   font-weight: bold;  
  |   color: #e32;  
  |   content: " *";  
  |   display: inline;  
  | }  
  
[-].unableAddress.k-input {  
  |   border-color: lightgray;  
  |   background-color: #e3e3e3;  
  |   color: #595959;  
  | }  
  
[-].unableAddress.k-input:hover {  
  |   border-color: lightgray;  
  |   background-color: #e3e3e3;  
  |   color: #595959;  
  | }  
  
[-]div .overlay {  
  |   position: absolute;  
  |   top: 0;  
  |   left: 0;  
  |   width: 100%;  
  |   height: 100%;  
  |   z-index: 10999;  
  | }  
  
[-]div .outerclass {  
  |   position: relative;  
  | }
```

The piece of controller.js which feed the dropdown menus:

```
$scope.ClientTypes = {
  transport: {
    read: {
      url: baseUrl + "api/Client/GetClientTypes",
    }
  }
};
$scope.CreditStatuses = [];
$scope.CreditStatus = {
  transport: {
    read: {
      url: baseUrl + "api/CreditStatus/GetAll",
    }
  },
  schema: {
    data: function (data) {
      $scope.CreditStatuses = data;
      return data;
    }
  }
};
$scope.ClientTax = {
  transport: {
    read: {
      url: baseUrl + "api/Client/GetTaxList",
    }
  }
}
```

“Save”

```
$scope.SaveClient = function () {
  if ($scope.IsDirty === true) {
    if ($scope.ClientIsValid()) {
      $.ajax({
        type: "POST",
        url: baseUrl + "api/Client/Save",
        dataType: "json",
        data: $scope.Client,
        async: false,
        success: function (response) {
          $.extend($scope.Client, response.data);
          $scope.IsDirty = false;
        }
      });
    }
    else {
      return $scope.Localization.LeaveWithoutSaving;
    }
  }
}
```

Initialization

```
$scope.init = function (values, resourceType) {
  $.extend($scope, values);
  localizationService.getForType(resourceType).then(function (data) {
    $scope.Localization = data;
    $scope.Customer.CurrencyId = "CAD";
    $('#CustomerPhoneNumber').kendoMaskedTextBox({
      mask: "999 000-0000"
    });
    $('#CustomerOfficeId').kendoDropDownList();
    $('#CustomerLanguageId').kendoDropDownList();
    $('[data-toggle="tooltip"]').tooltip();
    $.Address.Init('#CustomerAddressLookup', '#selectCountry', '#flag_country', function (selectedAddress) {
      $('#CustomerAddrLine1').val(selectedAddress.Line1).trigger('change');
      $('#CustomerAddrLine2').val(selectedAddress.Line2).trigger('change');
      $('#CustomerCity').val(selectedAddress.City).trigger('change');
      $('#CustomerProvince').val(selectedAddress.Province).trigger('change');
      $('#CustomerPostalCode').val(selectedAddress.PostalCode).trigger('change');
      $('#CustomerCountry').val(selectedAddress.CountryIso3).trigger('change');
      $scope.IsAddressValidate = true;
    });
  });
};
```

Creation of new table on the fly to accommodate the results of searching the address serving by third party Web Api (Canada Post)

```
DisplayResults: function (response) {
    // Test for an error
    if (response.Items.length == 1 && typeof (response.Items[0].Error) != "undefined") {
        // Show the error message
        alert(response.Items[0].Description);
    }
    else {
        // Check if there were any items found
        if (response.Items.length == 0)
            alert("Sorry, there were no results");
        else {
            if (document.getElementById('tblAddressesContainer') != null) {
                var el = document.getElementById('tblAddressesContainer');
                el.parentNode.removeChild(el);
            }
            var div = document.createElement("div");

            div.id = 'tblAddressesContainer';
            div.style.maxHeight = '250px';
            div.style.overflowY = "auto";
            div.style.overflowX = "hidden";
            div.style.marginBottom = "0px";
            div.className = 'table table-hover';

            var tbl = document.createElement("table");
            tbl.id = 'tblAddresses';
            tbl.className = 'table table-hover';
            tbl.style.backgroundColor = '#f2f2f2';
            tbl.style.border = '1px solid';
            tbl.style.borderColor = '#85b1b1';
            tbl.style.margin = '0px';

            var row = tbl.insertRow(-1);
            for (var i = 0; i < response.Items.length; i++) {
                row = tbl.insertRow(-1);
                var cell = row.insertCell(-1);
                cell.innerHTML = response.Items[i].Text + (response.Items[i].Description.length > 50 ? "..." : "");
                cell.id = response.Items[i].Id;
                cell.ch = response.Items[i].Next;
                cell.maxResults = parseInt(response.Items[i].Description);
                cell.onclick = function () { window.open(response.Items[i].Next, '_blank'); };
            }
            $(div).append(tbl);
            var child = $(document.getElementById('Address_options.SelectCountrySelector')[0]);
            child.parentNode.insertBefore(div, child);
        }
    }
}
```

[illegible]

```

        </tr>
        </table>
        @Html.Partial("ClientSiteUserControl", (object)clientSiteModel)
    </div>
</fieldset>
</tr>
</table>
<div>...</div>
</div>
<div id="ClientSiteContainer">
    <div class="panel panel-default">
        <ul class="nav nav-tabs" id="clientSiteTabs">
            <li role="presentation" class="active">
                <a id="project" ng-click="ChangeSelectedPane($event, 'Project')">{{Localization.TabProject}}</a>
            </li>
            <li>...</li>
            <li>...</li>
            <li>...</li>
            <li>...</li>
            <li>...</li>
        </ul>
    </div>
    <div class="tab-content" ng-show="SelectedPane == 'Project'">
        <div id="projectPane" class="tab-pane fade in active">
            <div kendo-grid="projectGrid" id="projectGrid" options="projectGridOptions" style="min-height:200px;"></div>
        </div>
    </div>
</div>

```

Controller.js

```
$scope.projectGridOptions = {
  dataSource: {
    type: "odata",
    dataType: "json",
    serverFiltering: true,
    serverPaging: true,
    serverSorting: true,
    pageSize: 50,
    transport: {
      read: {
        url: baseUrl + "api/Project/GetByClientId",
        dataType: "json",
      },
      parameterMap: function (options, operation) {
        if (operation == "read") {
          var paramMap = kendo.data.transports.odata.parameterMap(options);
          delete paramMap.$format;
          paramMap.clientId = $scope.ClientId;
          return paramMap;
        }
      },
    },
    schema: {
      data: function (data) {
        return data.Items;
      },
    },
  },
};

columns: [
  {
    field: "Id", type: "string", title: "{{Localization.ColumnProjectId}}", width: 60,
    template: '<a href="' + baseUrl + "Project/Index\\#/project/#=Id#" + '">#=Id#</a>'
  },
  {
    field: "Description", type: "string", title: "{{Localization.ColumnProjectDescription}}", width: 150
  },
  {
    field: "ServiceTypeId", type: "string", values: $scope.ServiceTypes(),
    title: "{{Localization.ColumnProjectServiceType}}", width: 70
  },
  {
    field: "CreatedOn", type: "date", template: '#= CreatedOn == null ? "" : kendo.toString(new Date(CreatedOn), "yyyy-MM-dd" ) #',
    title: "{{Localization.ColumnCreatedOn}}", width: 70
  },
  {
    field: "EndOn", type: "date", template: '#= EndOn == null ? "" : kendo.toString(new Date(EndOn), "yyyy-MM-dd" ) #',
    title: "{{Localization.ColumnProjectEndOn}}", width: 70
  },
  {
    field: "ClientId", type: "string", title: "{{Localization.ColumnProjectClientId}}", width: 70,
    template: '<a href="\\#/client/#=ClientId#">#=ClientId#</a>'
  },
  {
    field: "Client.Name", type: "string",
    title: "{{Localization.ColumnProjectClientName}}", width: 150
  },
  {
    field: "Controls",
    template: '<div style="text-align:center">' +
      '<span class="kendo-custom-button" title="{{Localization.ViewProjectEquipmentSubType}}" style="color:dodgerblue" ng-click="OpenProject">' +
      '<span class="glyphicon glyphicon-cog" aria-hidden="true"></span>' +
      '</span>' +
      '</div>',
    width: "40px",
    headerTemplate: '<div style="text-align:center">' +
      '<span class="kendo-custom-button" title="{{Localization.AddNewProject}}" style="color:green" ng-click="CreateNewProject()">' +
      '<span class="glyphicon glyphicon-plus" aria-hidden="true">' +
      '</span>' +
      '</span>' +
      '</div>',
  },
];
```