

# Chapter 11: Combining for Demonstration

Learning Bluemix & Blockchain

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# The Plan: 30 minute Chapters with an hour or two of practice

|              |   |
|--------------|---|
| Chapter 1:   | What is Blockchain? Concept and Architecture overview |
| Chapter 2:   | What's the story we're going to build                 |
| Chapter 2.1: | Architecture for the Story                            |
| Chapter 3:   | Set up local HyperLedger V1 development environment   |
| Chapter 4:   | Build and test the network                            |
| Chapter 5:   | Administration User Experience                        |
| Chapter 6:   | Buyer Support and User Experience                     |
| Chapter 7:   | Seller Support and User Experience                    |
| Chapter 8:   | Shipper Support and User Experience                   |
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# The unified user experience

Why build this?

It's confusing to keep track of all the roles, or persona, in the network as we flip from screen to screen.

So, let's put them all together.

If we were careful building our code for these 4 roles (we were), then we should have to do very little work to create this integrated view.

The screenshot displays a web application titled "Teen to Blockchain Tutorial" with a navigation bar including "Select Language", "Admin", "Roles", and a "Home" link. The main content area is divided into four panels, each representing a different user role and their associated orders.

**Top Left Panel (Kid Friendly Learning, Inc.):** Shows an order for "abby@kidfriendlyinc.com" with a total of \$2770.00. The order is cancelled. The items list includes:

| Item Number | Description                      | Quantity | Price     |
|-------------|----------------------------------|----------|-----------|
| 1           | Macbook Pro 16Gb, 1Tb            | 1        | \$1285.00 |
| 2           | Macbook Pro 8Gb, .5Tb            | 1        | \$585.00  |
| 3           | Lenovo Thinkpad W520 16Gb, .25Tb | 1        | \$900.00  |

**Top Right Panel (2nd Life Systems, Inc.):** Shows an order for "abby@kidfriendlyinc.com" with a total of \$2770.00. The order is cancelled. The items list includes:

| Item Number | Description                      | Quantity | Price     |
|-------------|----------------------------------|----------|-----------|
| 1           | Macbook Pro 16Gb, 1Tb            | 1        | \$1285.00 |
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| 3           | Lenovo Thinkpad W520 16Gb, .25Tb | 1        | \$900.00  |

**Bottom Left Panel (PG Hardware Now, Inc.):** Shows an order for "abby@kidfriendlyinc.com" with a total of \$2770.00. The order is cancelled. The items list includes:

| Item Number | Description                      | Quantity | Price     |
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| 1           | Macbook Pro 16Gb, 1Tb            | 1        | \$1285.00 |
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| 3           | Lenovo Thinkpad W520 16Gb, .25Tb | 1        | \$900.00  |

**Bottom Right Panel (Fast Eddy, Inc.):** Shows an order for "abby@kidfriendlyinc.com" with a total of \$2770.00. The order is cancelled. The items list includes:

| Item Number | Description                      | Quantity | Price     |
|-------------|----------------------------------|----------|-----------|
| 1           | Macbook Pro 16Gb, 1Tb            | 1        | \$1285.00 |
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| 3           | Lenovo Thinkpad W520 16Gb, .25Tb | 1        | \$900.00  |

# What do we have to change?

Change and create some new CSS

This will put each role into a quarter page window

Create a small HTML page with a 2x2 matrix

Update the singleUX function to load these pages along with loading all the member information



# CSS

Create 2 new CSS classes:

halfPane (top row)

halfPane2 (bottom row)

```
.halfPane{
  position: absolute;
  height: 40%;
  margin: .0625em;
  width: 48%;
  overflow: hidden;
}

.halfPane2{
  position: absolute;
  height: 40%;
  margin: .0625em;
  top: 50%;
  width: 48%;
  overflow: hidden;
}
```

# HTML

Create a little HTML file

```
<div>
  <div>
    <table width='100%'>
      <tr width='100%'>
        <td width='50%'><div class="showfocus halfPane" id="buyerbody">(buyer view)</div></td>
        <td width='50%'><div class="showfocus halfPane" id="sellerbody">(seller view)</div></td>
      </tr>
    </table>
  </div>
  <div>
    <table width='100%'>
      <tr width='100%'>
        <td width='50%'><div class="showfocus halfPane2" id="providerbody">(provider view)</div></td>
        <td width='50%'><div class="showfocus halfPane2" id="shipperbody">(shipper view)</div></td>
      </tr>
    </table>
  </div>
  <div id="messages"></div>
</div>
```

# Update singleUX function

Add 4 function calls, one for each role we will display on the unified page.

```
function singleUX ()
{
    var toLoad = 'singleUX.html';
    var options = {};
    options.registry = 'Seller';
    var options2 = {};
    options2.registry = 'Buyer';
    var options3 = {};
    options3.registry = 'Provider';
    var options4 = {};
    options4.registry = 'Shipper';
    $.when($.get(toLoad), $.post('/composer/admin/
        $.post('/composer/admin/getMembers', op
    {
        buyers = _buyers[0].members;
        sellers = _sellers[0].members;
        s_string = _getMembers(sellers);
        providers = _providers[0].members
        p_string = _getMembers(providers);
        shippers = _shippers[0].members
        sh_string = _getMembers(shippers);
        $("#body").empty();
        $("#body").append(_page[0]);
        loadBuyerUX();
        loadSellerUX();
        loadProviderUX();
        loadShipperUX();
    });
}
```





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# Chapter 12: Events and Automating for Demonstration

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