ZeroToBlockchain Chapter 12: Creating, monitoring and consuming events

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In this chapter, we will update the code from Chapter 11 to include event creation and monitoring on the server and event subscription and notification in the browser.

```
Chapter 12
  ↳ controller
     ↳restapi
       router.js
        ↳features
           ↳composer
             autoLoad.js
             hlcAdmin.js
             hlcClient.js           <== Updated
             queryBlockChain.js
             Z2B_Services.js        <== Updated
             Z2B_Utilities.js
           ↳ text
              multi-lingual.js
              resources.js
  ↳ HTML
    index.html
    admin.html
    buyer.html                      <== Updated
    ceateConnectionProfile.html
    createMember.html
    createOrder.html
    deleteConnectionProfile.html
    financeCo.html                  <== Updated
```

```
        getMemberSecret.html
        removeMember.html
        provider.html                    <== Updated
        seller.html                      <== Updated
        shipper.html                     <== Updated
        singleUX.html
          ↳CSS
            pageStyles.css
          ↳js
            z2b-admin.js
            z2b-buyer.js                 <== Updated
            z2b-events.js                <== Updated
            z2b-financeCo.js             <== Updated
            z2b-initiate.js
            z2b-provider.js              <== Updated
            z2b-seller.js                <== Updated
            z2b-shipper.js               <== Updated
            z2b-utilities.js
      ↳ network
       permissions.acl
       queries.qry
         ↳lib
           sample.js                     <== Updated
         ↳models
           base.cto
           events.cto
           sample.cto                    <== Updated
```

No new files are created. Fifteen existing files are updated:

Files used in this chapter

Web Server Code Unique to this Chapter

- **hlcClient.jss**
    - add event monitoring to client routines
    - add event notification to browser via web socket.

- it should be noted that this is a rough implementation for notifying the user of asynchronous events and is appropriate for a lightweight demo but inappropriate for a PoC or a production system.

Defining the business network

- **/models/sample.CTO**
  - add events to sample.CTO file
- **/lib/sample.js**
  - add event notification to transactions

Web Browser Code

- **all UX files**
  - Add placeholder for notification icon and add placeholder for notification counter.
- **all UX javascript files**
  - use subscribe, unsubscribe and notifyMe routines
- **z2b-events.js**
  - add event support for alert subscription, notification
- **CSS/pageStyles.css**
  - add support for notification icon and text