ZeroToBlockchain Chapter 8: Building the Provider User Experience

[Return to Table of Contents](#)

In this chapter, we will create the (third party) Provider Company view and add server-side services to support it. This runs on HyperLedger Fabric Version 1.0. The code that we will write is managed in this chapter and all the subsequent chapters in the following folder structure:

```
Chapter 08
  ↳ controller
    ↳restapi
      router.js
        ↳features
          ↳composer
            autoLoad.js
            hlcAdmin.js
            hlcClient.js
            queryBlockChain.js
            Z2B_Services.js
            Z2B_Utilities.js
          ↳ text
            multi-lingual.js
            resources.js
  ↳ HTML
    index.html
    admin.html
    buyer.html
    ceateConnectionProfile.html
    createMember.html
    createOrder.html
    deleteConnectionProfile.html
```

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

Two new files are introduced in this chapter and two existing files are updated:

Files used in this chapter

Web Server Code Unique to this Chapter

- **hlcClient.js**
  - This file is update to support the provider interface on the server side

Defining the business network

- **network/permissions.acl**
  - This file is *updated* to allow the provider to access Orders and to execute selected transactions.
  - It determines precisely what transactions a member can execute and what assets a member can see. The basic rule is "If authority is not specifically granted in this file, then access is denied."

Web Browser Code

- **z2b-provider.js**
  - This file contains all of the browser functional code to support the provider user experience
- **provider.html**
  - This contains the HTML framework for the provider experience. Content for this framework is generated by the functions in the z2b-provider.js file
  - Text on this page is determined by the selected language (default is US English)