

ZeroToBlockchain Chapter 9: Building the Shipper User Experience

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In this chapter, we will create the Shipping 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 09
└─ controller
  └─ restapi
    router.js
    └─ features
      └─ composer
        autoLoad.js
        hlcAdmin.js
        hlcClient.js
        queryBlockchain.js
        Z2B_Services.js
        Z2B_Uutilities.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
shipper.html
  ↳ CSS
    pageStyles.css
  ↳ js
    z2b-admin.js
    z2b-buyer.js
    z2b-events.js
    z2b-initiate.js
    z2b-provider.js
    z2b-seller.js
    z2b-shipper.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 three 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 shipper interface on the server side

Defining the business network

- **network/permissions.acl**
 - This file is ***updated*** to allow the shipper 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-shipper.js**
 - This file contains all of the browser functional code to support the shipper user experience
- **shipper.html**
 - This contains the HTML framework for the provider experience. Content for this framework is generated by the functions in the z2b-shipper.js file
 - Text on this page is determined by the selected language (default is US English)
- **pageStyles.css**
 - This file is updated to support the accordian action on the Finance Company page