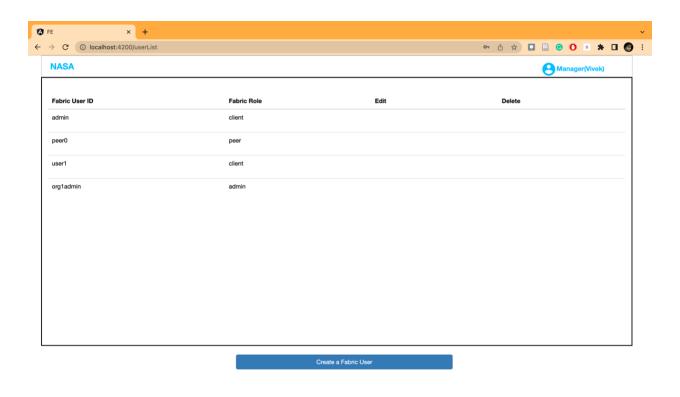
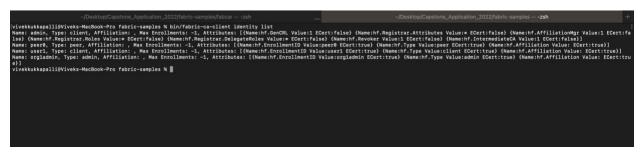
CRUD Operations

The fabric user's identity list in the UI

• It will show the all the users that are registered in fabric ca (Including admins)

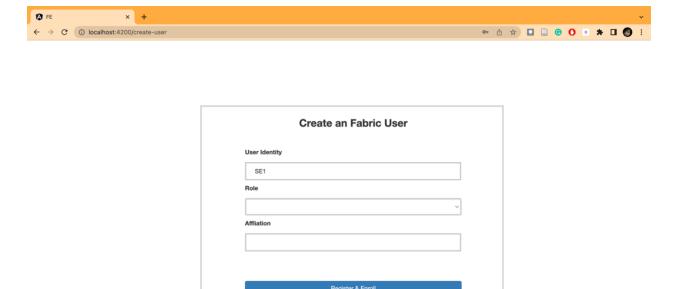




Creating a fabric User Identity

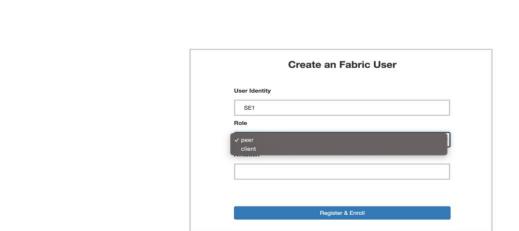
← → C (o localhost:4200/create-user

• To create a new fabric user, click on **Create a Fabric User** Button



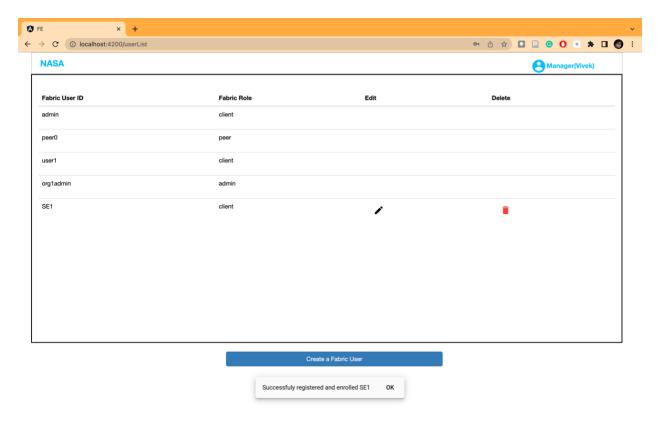
• Creating a new fabric user identity SE1 without selecting any attribute values for Role & Affiliation. Role can be either (peer or client) for now.

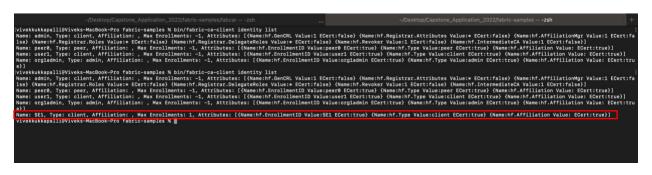
on ① ☆ □ □ 0 0 s ★ □ 6



 Once details are entered click on Register & Enroll to register and enroll the fabric user identity into fabric ca.

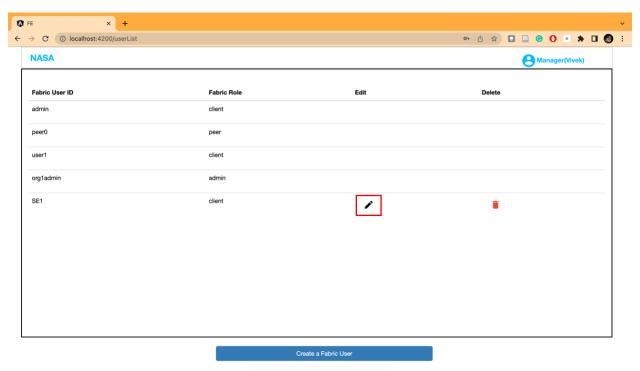
- After successful enrollment the identity will be reflected in the Front End
- If no value is selected for the role option, by default value (Client) will be assigned





Updating the Fabric User Identity

- Updating the role of the fabric user identity SE1 to peer
- To edit the role of the user identity, click on edit option
- admin identities cannot be edited



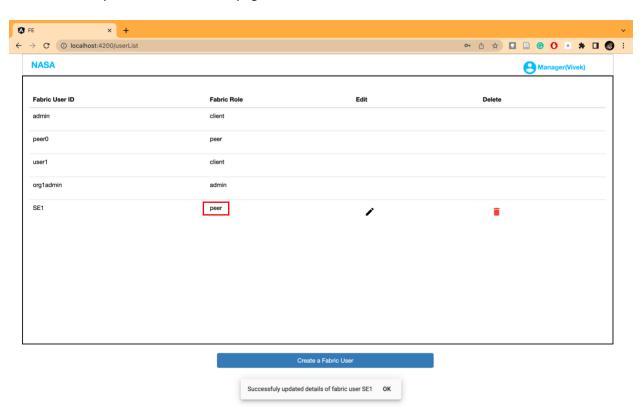
Editing page

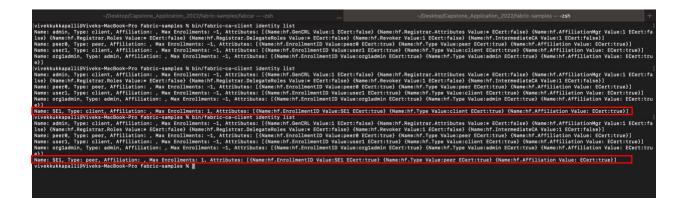
• Changing the role to the peer





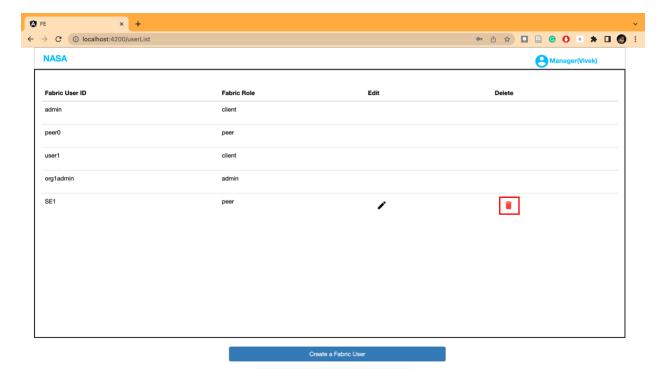
Role has been updated in the user list page in the front end





Deleting the User Identity

- To delete an user identity click on delete icon assigned to the respective user identity
- Need to select a reason, why you want to delete an user identity

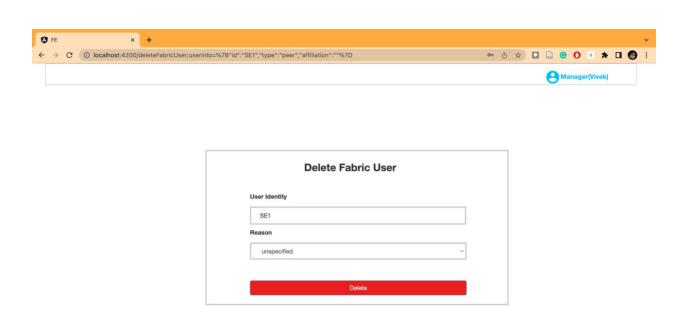




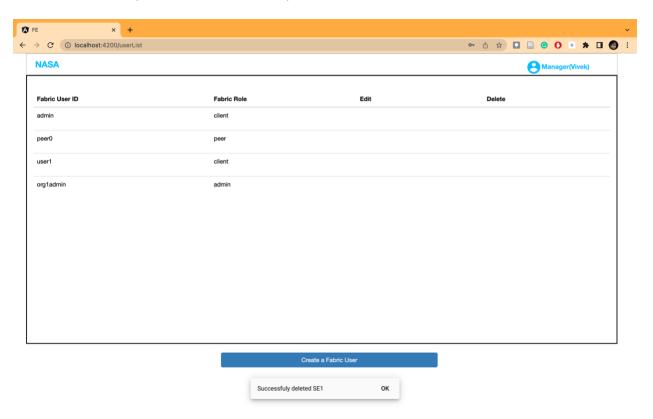








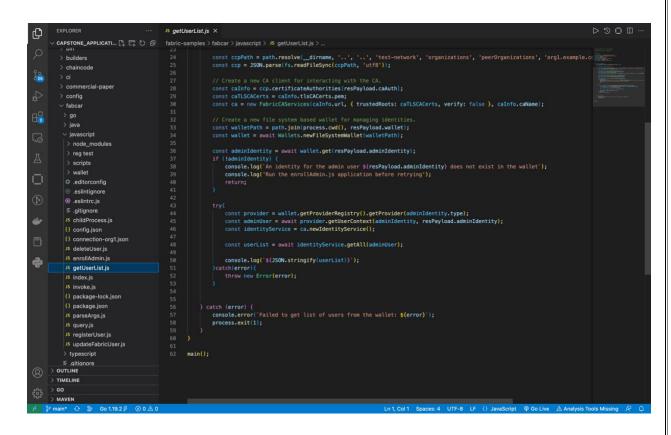
Once successfully deleted the user identity it will be reflected in front end



```
COUNTENTANDE DE COUNTE DE
```

Attaching code snippets

1. Getting Fabric Users



2. Registering a new user

```
0
                                                                   JS registerUser.js X
           CAPSTONE_APPLICATI... [] [] [] []
                                                                  fabric-samples > fabcar > javascript > JS registerUser.js > ♥ main
                                                                                         const userIdentity = await wallet.get(resPayload.userIdentity);
if (userIdentity) {
   console.log(`An identity for the user $(resPayload.userIdentity) already exists in the wallet`);
              > commercial-paper
                                                                                         // Check to see if we've already enrolled the admin user.
const adminIdentity = await wallet.get(resPayload.adminIdentity);
              ∨ fabcar
                                                                                         if (!adminidentity) {
   console.log('An identity for the admin user ${resPayload.adminidentity} does not exist in the wallet');
   console.log('Run the enrollAdmin.js application before retrying');
                 > node modules
                 > reg test
                                                                                         // build a user object for authenticating with the CA
const provider = wallet.getProviderRegistry().getProvider(adminIdentity.type);
const adminUser = await provider.getUserContext(adminIdentity, resPayload.adminIdentity);
                  > wallet
 0
                .editorconfig
                                                                                        // Register the user, enroll the user, and import the new identity into the wallet.
const secret = awalt ca.register{{
    affiliation: resPayload.affiliation,
    enrollmentID: resPayload.userIdentity,
                .eslintrc.js

≡ .gitignore

                 JS childProcess.js
 -
                                                                                               role: resPayload.role
                                                                                        }, adminUser);
const enrollment = await ca.enroll({
    enrollmentID: resPayload.userIdentity,
                () connection-org1.json
                JS deleteUser.js
                                                                                               enrollmentSecret: secret
 *
                                                                                        const x509Identity = {
    credentials: {
        certificate: enrollment.certificate,
        privateKey: enrollment.key.toBytes(),
                JS index.is
                                                                                              ),
mspId: resPayload.orgMspID,
type: 'X.509',
                () package.json
                JS parseArgs.js
                 Js updateFabricUser.js
€ ,qitiqn
                                                                                      catch (error) {
  console.error(`Failed to register user ${resPayload.userIdentity}: ${error}`);
  process.exit(1);
          > TIMELINE
                                                                                                                                                                           Ln 81, Col 44 Spaces: 4 UTF-8 LF () JavaScript @ Go Live A Analysis Tools Missing R
```

3. Updating/editing user details

```
0
           CAPSTONE_APPLICATI... [ ] [ ] [ ] fabric-samples > fabcar > javascript > 15 updateFabricUser.js >
                                                                                                  const caURL = ccp.certificateAuthorities[resPayload.caAuth].url;
const ca = new FabricCAServices(caURL);
               > builders
               > chaincode
                                                                                                 // Create a new file system based wallet for managing identitie
const walletPath = path.join(process.cwd(), resPayload.wallet);
const wallet = await Wallets.newFileSystemMallet(walletPath);
               > config
                                                                                                  const userIdentity = await wallet.get(resPayload.userIdentity);
if (!userIdentity) {
   console.log(`An identity for the user $(resPayload.userIdentity) does not exists in the wallet`);
   return;

√ javascript

                                                                                                  }
// Check to see if we've already enrolled the admin user.
const adminIdentity = await wallet.get(resPayload.adminIdentity);
if (!adminIdentity) {
   console.log('An identity for the admin user $(resPayload.adminIdentity) does not exist in the wallet');
   console.log('Run the enrollAdmin.js application before retrying');
                  > scripts
 .editorconfig
                  .eslintignore
 -
                 JS childProcess.js
                                                                                                         const provider = wallet.getProviderRegistry().getProvider(adminIdentity.type);
const adminUser = await provider.getUserContext(adminIdentity, resPayload.adminIdentity);
const identityService = ca.newIdentityService();
                 () config.json
                                                                                                    let updateObj = {
                 JS enrollAdmin.is
 4
                                                                                                             type: resPayload.role,
affiliation: resPayload.affiliation
                 JS getUserList.js
                                                                                                       const response = await identityService.update(resPayload.userIdentity, updateObj, adminUser);
console.log(`$(JSON.stringify(response))`);
                 JS invoke.js
                 () package-lock.json
                  JS updateFabricUser.js
                                                                                                  console.error('Failed to register user ${resPayload.userIdentity}: ${error}');
process.exit(1);
☐ .gitignore

OUTLINE
           > MAVEN
```

4. Deleting the fabric user

```
const userIdentity = await wallet.get(resPayload.userIdentity);
if (!userIdentity) {
  console.log('An identity for the user ${resPayload.userIdentity} not exists in the wallet');
  return:
            > config

< fabcar
                                                                                        // Check to see if we've already enrolled the admin user.
const adminIdentity = await wallet.get(resPayload.adminIdentity);
if (!adminIdentity) {

√ javascript

                                                                                              crossle.log('An identity for the admin user ${resPayload.adminIdentity} does not exist in the wallet');
console.log('Run the enrollAdmin.js application before retrying');
return;
               > reg test
> scripts
const provider = wallet.getProviderRegistry().getProvider(adminIdentity.type);
const adminUser = await provider.getUserContext(adminIdentity, resPayload.adminIdentity);
               .eslintignore
                eslintrc.js
                                                                                        const delObject = await ca.revoke({
  enrollmentID: resPayload.userIdentity,
  reason: resPayload.reason,
  gencri: true
), adminUser);
               JS childProcess.js
               () config.json
                                                                                       if (delObject.success == true) {
  const identityService = ca.newIdentityService();
  identityService.delete(resPayload.userIdentity, adminUser, true).then(async function (response) {
               JS enrollAdmin.is
*
               JS getUserList.js
                                                                                                   await wallet.remove(resPayload.userIdentity);
console.log('Successfully deleted fabric user ${resPayload.userIdentity}');
               () package-lock.json
                                                                                         console.log( Successfully detected fabric user ${resPayload.userIdentity});
)else(
throw new Error('Unable to revoke the fabric user ${resPayload.userIdentity}');
                                                                                 } catch (error) {
   console.error('Error: ${error}');
   process.exit(1);
☐ gitignore
☐ OUTLINE
          > MAVEN
```