Angular universal is used to run the angular application on server

**Step 1:** Install the Angular universal in the project- **ng add @nguniversal/express-engine**

Step 2: After installing the above package , some new files will be added in the project

1. src/main.server.ts
2. src/app/app.config.server.ts
3. src/app/app.module.server.ts
4. server.ts

**Step 3:** Edit the server.ts to fix the error like **windows and document not defined** while start running server .

Install the packages

1. npm I domino
2. npm I localstorage-polyfill

Import the code in the top of the page

const domino = require('domino');

import { join } from 'path';

import 'localstorage-polyfill';

import { existsSync ,readFileSync } from 'fs';

const distFolder1 = join(process.cwd(), 'dist/sap-world/browser');

const indexHtml1 = existsSync(join(distFolder1, 'index.original.html')) ? 'index.original.html' : 'index.html';

const template = readFileSync(join(distFolder1, indexHtml1)).toString();

const window = domino.createWindow(template.toString());

global['window'] = window;

global['document'] = window.document;

global['navigator'] = window.navigator

global['localStorage'] = localStorage;

window.Object = Object;

global['Event'] = null;

**Step 4:** In server.ts , Set angular universal for particular route for server side render

server.get('/linkedin-share', (req, res) => {

res.render(indexHtml, { req, providers: [{ provide: APP\_BASE\_HREF, useValue: req.baseUrl }] });

});

**Step 5:** In server.ts, Set client side render for remaining routes

server.get('\*', (req, res) => {

res.sendFile(join(distFolder, 'index.html'));

});

**Step 6:** In app.component.ts,To update the title when navigate to **/linkedin-share** path

ngOnInit(): void {

if(this.document.location.pathname=='/linkedin-share'){

this.titleService.setTitle(‘Job name’);

this.metaService.updateTag({property: 'og:title', content: ‘Job name’});

this.metaService.updateTag({name: 'title', content: ‘Job name’});

}

}

**Step 7:** To run the server - **npm run dev:ssr**

**Server Setup for angular universal**

Step 1: To install packages in root user path

* sudo a2enmod proxy
* sudo a2enmod proxy\_http
* sudo a2enmod proxy\_balancer
* sudo a2enmod lbmethod\_byrequests

**Step 2:** To edit config file (**nano /etc/apache2/sites-available/sap-ssl.conf** ) and save it

ProxyPreserveHost On

<Proxy \*>

Order deny,allow

Allow from all

</Proxy>

ProxyPass / http://localhost:4000/ connectiontimeout=1 retry=5 Keepalive=On

ProxyPassReverse / http://localhost:4000/

<Location />

Order allow,deny

Allow from all

</Location>

**Step 3 :** Move to project folder path and take build - **ng build --configuration production && ng run sap-world:server**

**Step 4:** After the build , then start the server **- forever start dist/sap-world/server/main.js**