Introduction

Logging library is used to log message for an application.

Technology

Language: Angular

Version: 9

About

In this library, you can still call console.log but apart from this you can also record the message to store them in local storage, file or a database table via Web API.

Why Logging is Important

As a developer, you are responsible for every line of code you write. If a bug surfaces in the application, you need to pinpoint the issue and provide a fix for it. In most cases, it can take hours (if not days) to reproduce the issue before you can even fix it. When implemented properly, logging can save your big time. Not only will logging save you hours of debugging in the long run but also give you confidence about your solutions.

Benefits

1. No need to third party library for logging.
2. Centralize logging service for printing message in a console.
3. You want to disable logging temporarily.
4. Send log to servers and store in a local storage.
5. You have a source code of this, you can modify as you want.

How to use

1. Download the logging library.
2. Put the library in any location on your system
3. Install the library in your project from following command
   1. npm install <location of logger-library>
4. Put the logging configuration information in environment.ts or environment.prod.ts file of your project

Example

logPublisherConfig: [

    {

      "loggerName": "console",

      "loggerLocation": "",

      "isActive": true

    },

    {

      "loggerName": "localstorage",

      "loggerLocation": "logging",

      "isActive": true

    },

    {

      "loggerName": "api",

      "loggerLocation": "http://localhost:8082/logapi",

      "isActive": false,

       "options": {

         "headers" :{

          'Content-Type':  'application/json'

         }

       }

    },

    {

      "loggerName": "file",

      "loggerLocation": "c:/weneedtoimplement.txt",

      "isActive": false

    }

  ]

1. app.module.ts changes –
   1. import the library from the following

import {LoggerLibModule, LoggerLibService} from ‘logger-lib’;

* 1. import the module from the following

LoggerLibModule.forRoot(environment.logPublisherConfig)

* 1. add the LoggerLibService in a providers.

1. import {environment} from '../environments/environment';
2. import {LoggerLibModule, LoggerLibService} from 'logger-lib';
3. @NgModule({
4. declarations: [
5. AppComponent
6. ],
7. imports: [
8. BrowserModule,
9. HttpClientModule
10. ,
11. LoggerLibModule.forRoot(environment.logPublisherConfig)
12. ],
13. providers: [LoggerLibService],
14. bootstrap: [AppComponent]
15. })
16. export class AppModule { }
17. LoggerLibService usage example
18. import { Component } from '@angular/core';
19. import { LoggerLibService } from 'logger-lib';
20. @Component({
21. selector: 'app-root',
22. templateUrl: './app.component.html',
23. styleUrls: ['./app.component.css']
24. })
25. export class AppComponent {
26. title = 'test-library';
27. constructor(private log : LoggerLibService) { }
28. ngOnInit() {
29. this.log.debug("debug message");
30. this.log.error("error message");
31. }
32. }