# NG-CHAT LIBRARY

NG-CHAT LIBRARY is a library for adding chat interface in our project.

**Features Available:**

* Video and Audio calls.
* Video, Audio, Image, File Transfer.
* Offline Chats.
* View colours customization.
* Contacts.

**How to use it?**

1. Create a New folder in your Angular project and name it as **projects**.
2. Add the **library folder (E.g.: ng-chat-lib)** inside the projects folder.
3. Add the following code in your **angular.json** file inside the projects alongside of your application.

    "ng-chat-lib": {

      "projectType": "library",

      "root": "projects/ng-chat-lib",

      "sourceRoot": "projects/ng-chat-lib/src",

      "prefix": "ng",

      "architect": {

        "build": {

          "builder": "@angular-devkit/build-ng-packagr:build",

          "options": {

            "tsConfig": "projects/ng-chat-lib/tsconfig.lib.json",

            "project": "projects/ng-chat-lib/ng-package.json"

          },

          "configurations": {

            "production": {

              "tsConfig": "projects/ng-chat-lib/tsconfig.lib.prod.json"

            }

          }

        },

        "test": {

          "builder": "@angular-devkit/build-angular:karma",

          "options": {

            "main": "projects/ng-chat-lib/src/test.ts",

            "tsConfig": "projects/ng-chat-lib/tsconfig.spec.json",

            "karmaConfig": "projects/ng-chat-lib/karma.conf.js"

          }

        },

        "lint": {

          "builder": "@angular-devkit/build-angular:tslint",

          "options": {

            "tsConfig": [

              "projects/ng-chat-lib/tsconfig.lib.json",

              "projects/ng-chat-lib/tsconfig.spec.json"

            ],

            "exclude": [

              "\*\*/node\_modules/\*\*"

            ]

          }

        }

      }

    }

1. Import the Library Module in the **Module** file.

import { NgChatLibModule } from 'projects/ng-chat-lib/src/public-api';

1. Also add NgChatLibModule to the imports array in the same file.
2. Add the following in the **tsconfig.json** file.

"resolveJsonModule": true,

"esModuleInterop": true

This allows us the json files import in the ts.

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1. Install bootstrap, jquery, ngx-pagination, ngx-order-pipe, font-awesome icons and popper npm.

npm install - - save bootstrap

npm install - - save jquery

npm install - - save @mdi/font

npm install - - save popper.js

npm install - - save @ctrl/ngx-emoji-mart

npm install - - save firebase@7.6.0

npm install - - save @angular/fire@5.4.0

npm install - - save moment

npm install - - save ngx-color-picker

npm install - - save ngx-spinner

npm install - - save ngx-infinite-scroll

npm install - - save rjxs-compact

1. Create **firebase-messaging-sw.js** & **manifest.json** for push notification.

* firebase-messaging-sw.js

importScripts('https://www.gstatic.com/firebasejs/7.6.0/firebase-app.js');

importScripts('https://www.gstatic.com/firebasejs/7.6.0/firebase-messaging.js')

firebase.initializeApp({

  apiKey: "AIzaSyCh5BBoAJu7FXNtwo-7DFy6QESyLkDqE0o",

  authDomain: "ngx-chat-app.firebaseapp.com",

  databaseURL: "https://ngx-chat-app.firebaseio.com",

  projectId: "ngx-chat-app",

  storageBucket: "ngx-chat-app.appspot.com",

  messagingSenderId: "705939503816",

  appId: "1:705939503816:web:7023ded1896360117d43fd",

  measurementId: "G-1X6WPC5JR4"

});

const messaging = firebase.messaging();

* **manifest.json**

{

    "gcm\_sender\_id": "705939503816"

}

1. Add the following in your project array in the **angular.json** file.

* In **assets**Array,

"src/firebase-messaging-sw.js",

"src/manifest.json"

* In **styles** Array,

"./node\_modules/bootstrap/dist/css/bootstrap.min.css",

* In **scripts** Array,

"./node\_modules/popper.js/dist/umd/popper.min.js",

"./node\_modules/jquery/dist/jquery.min.js",

"./node\_modules/bootstrap/dist/js/bootstrap.min.js"

           "assets": [

              "src/favicon.ico",

              "src/assets",

              "src/firebase-messaging-sw.js",

              "src/manifest.json"

            ],

            "styles": [

              "src/styles.scss",

              "./node\_modules/bootstrap/dist/css/bootstrap.min.css"

            ],

            "scripts": [

              "./node\_modules/jquery/dist/jquery.min.js",

              "./node\_modules/popper.js/dist/umd/popper.min.js",

              "./node\_modules/bootstrap/dist/js/bootstrap.min.js"

            ]

1. In **app.component.ts**

add the necessory import for the firebase;

import { AngularFireMessagingModule } from '@angular/fire/messaging';

import { AngularFireDatabaseModule } from '@angular/fire/database';

import { AngularFireAuthModule } from '@angular/fire/auth';

import { AngularFireModule } from '@angular/fire';

import { environment } from '../environments/environment';

  imports: [

    BrowserModule,

    NgChatLibModule,

    BrowserModule,

    FormsModule,

    HttpClientModule,

    AngularFireDatabaseModule,

    AngularFireAuthModule,

    AngularFireMessagingModule,

    AngularFireModule.initializeApp(environment.firebase),

  ],

1. In **environment.ts** file add the configuration for the firebase.

  firebase : {

    apiKey: "AIzaSyCh5BBoAJu7FXNtwo-7DFy6QESyLkDqE0o",

    authDomain: "ngx-chat-app.firebaseapp.com",

    databaseURL: "https://ngx-chat-app.firebaseio.com",

    projectId: "ngx-chat-app",

    storageBucket: "ngx-chat-app.appspot.com",

    messagingSenderId: "705939503816",

    appId: "1:705939503816:web:7023ded1896360117d43fd",

    measurementId: "G-1X6WPC5JR4"

  },

1. In **Index.html** file add all **CDN** dependencies

  <script

    src="https://cdn.jsdelivr.net/combine/npm/react@16/umd/react.production.min.js,npm/react-dom@16/umd/react-dom.production.min.js,npm/react-is@16/umd/react-is.production.min.js,npm/styled-components@5/dist/styled-components.min.js,npm/@microlink/mql@latest/dist/mql.min.js,npm/@microlink/vanilla@5/dist/microlink.min.js"></script>

  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/animate.css/3.7.0/animate.min.css">

  <link rel="manifest" href="./manifest.json">

1. In **style.scss** add the following styles.

 @import '~@ctrl/ngx-emoji-mart/picker';

@import '~@mdi/font/css/materialdesignicons.css';

1. Go to the component where you want to add the table.

**In html file:**

Add the below code

<ng-chat-lib ></ng-chat-lib>

Here,

**In the Library**

**For the timebeing** satic data has been fed and the outputs have been loaded. If the input structure is changed or for any breaking changes , have to rework on the load messages, contacts, view more messages etc.

**ng-custom-table.component.ts** is the file that contains the actions. So if there is anything to be changed (like adding actions, changing color or icons) we can do it in this file. (**Folder**: ng-custom-table)

**input.chatinferace.ts** is the file where you can actullay add and remove interfaces based on the requirement.

**References:**

1. <https://microlink.io/docs/sdk/integrations/vanilla/>
2. <https://morioh.com/p/b683020160b4>
3. <https://dev.to/mayurkadampro/angular-8-firebase-cloud-messaging-push-notifications-97a>
4. <https://github.com/TypeCtrl/ngx-emoji-mart>
5. <https://www.c-sharpcorner.com/article/how-to-upload-and-view-vedio-using-angular-7/>
6. <https://coderspirit.com/angular/angular-8-infinite-scroll-example-using-ngx-infinite-scroll/>
7. <https://stackoverflow.com/questions/44883501/play-sound-in-angular-4>