softwave

מבחן בית למועמדים

Your task is to build a small application, that includes:

- HTML,
- javascript (angular\react)
- rest api - develop authorized web api to return the data
- authentication and *authorization from* **azure b2c** (for authentication and authorization use azure b2c free registration).
- fetching data from the data base -Build Database to store the data. use entity framework\ code first or sequelize (for node) for simplicity

client side

expected app view:

The app has 3 sections:

1. <u>years selection component</u>:
   When the user selects a specified year, the data on the left side will be rendered from the server.
2. <u>2 performance circles</u>:
   the data will be filled according to the graphic design (% or x/y).
3. <u>Categories kpi list</u>:
   Each category has a maximum quantity and actual quantity. You must implement the data in a battery-like behavior. There isn't any need for the exact colors that are on the graphic sample, but it should look GOOD!

Server side

the rest server will be developed in .NET core or node JS
the rest api will return the JSON data:

```
{
  "data": [
    {
      year :2017,

      circle1 :{
        value:60%
        maxValue:100%
```

```
      },
      circle2:{
        value:30
        maxValue:40},
      categories: [
          {
            Title:"cat1",
            value:4,
            maxValue:10
          },
         {
            Title:"cat2",
            value:2,
            maxValue:10
          },
         {
            Title:"cat3",
            value:7,
            maxValue:12
          },
         {
            Title:"cat4",
            value:4,
            maxValue:10
          },
         {
            Title:"cat5",
            value:8,
            maxValue:10
          },
         {
            Title:"cat6",
            value:3,
            maxValue:10
          },
         {
            Title:"cat7",
            value:4,
            maxValue:10
          },{
            Title:"cat8",
            value:4,
            maxValue:10
          }
        ]
    },
    {
      year :2018,
      circle1 :{
        value:90%
        maxValue:100%

      },
      circle2:{
        value:25
        maxValue:40},
      categories: [
          {
```

```
          Title:"cat1",
          value:2,
          maxValue:10
        },
      {
          Title:"cat2",
          value:8,
          maxValue:10
        },
      {
          Title:"cat3",
          value:1,
          maxValue:12
        },
      {
          Title:"cat4",
          value:6,
          maxValue:10
        },
      {
          Title:"cat5",
          value:8,
          maxValue:10
        },
      {
          Title:"cat6",
          value:3,
          maxValue:10
        },
      {
          Title:"cat7",
          value:9,
          maxValue:10
        },{
          Title:"cat8",
          value:10,
          maxValue:10
        }
      ]
    }
  ]
}
```