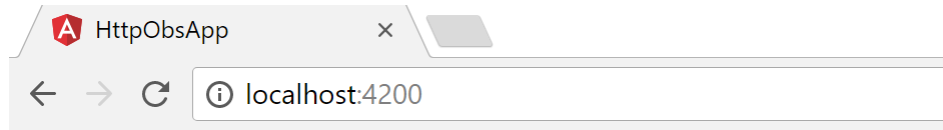


The following exercises are related to the use of Angular Observables.

1. Create a git repository for your answers to this problem sheet. Push the repository to GitHub. Make a commit and push it to GitHub after each exercise.
2. (a) Add the following JSON Data to www.jsonBlob.com and create an Angular application that reads the data.

```
{
  "School": "GMIT",
  "Address": "Dublin Road, Galway",
  "students": [
    {
      "name": "Tim",
      "age": 22,
      "id": "G0012345",
      "address": "1 Fake Street",
      "course": "Software"
    },
    {
      "name": "Mary",
      "age": 24,
      "id": "G0022123",
      "address": "2 Fake Street",
      "course": "Science"
    },
    {
      "name": "Mark",
      "age": 21,
      "id": "G0012343",
      "address": "3 Fake Street",
      "course": "French"
    }
  ]
}
```

and displays the information as follows including course information:



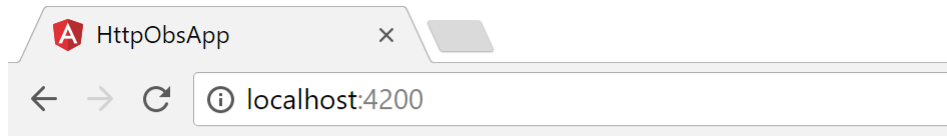
Students

1. G0012345, Tim, 1 Fake Street
2. G0022123, Mary, 2 Fake Street
3. G0012343, Mark, 3 Fake Street

Alternatively, we can use:

<https://jsonblob.com/api/jsonblob/948523855690088448>

- (b) The code to get the data should be written in a Service and called from a Component.
 - (c) The data will be updated at various times, so the result may not always look as above, but will always have the same format i.e. ID, name, address, age, course. E.g.
3. (a) Browse to <https://openweathermap.org/> and register for a free account.
- (b) Create an Angular application that reads the weather data for Galway <http://api.openweathermap.org/data/2.5/weather?q=Galway&APPID=111111> where 11111 is replaced by your API Key
- (c) Your Application should now display information as follows:



Students

1. G0012345, Tim, 1 Fake Street
2. G0022123, Mary, 2 Fake Street
3. G0012343, Mark, 3 Fake Street

Weather in Galway

Clouds, overcast clouds