You will have to do the same assignment in go lang that was initially given to you.

However this time you will have to build the data sources using json file data. No mock or jsonserver.

You will have to use HTTP API and HTTP client of GO to implement the HTTP datasources and HTTP middleware API.

**Assignment**

**You have to build and run 2 data sources for hotel inventory. The codebase for these 2 data sources will be same.**

**You have to build a middleware aggregator that combines data from above 2 (or more) sources and provides it to client (end user)**

**Write unit tests for handlers and other modules that you will build.**

**Details:**

**Primary data source:**

 (Source A) provides list of hotel rooms and their availability.

 (Source B)  provides its own list of hotels rooms and availability.

Only admin can add, delete and change hotel details. So need authentication and authorization. Others can read. However anyone (middleware) can change the inventory (booking).

Both the sources expose data over http rest with content type as json.

**Middleware Module:**

The service middleware module pulls data from both the sources using http client and provides as one to the user.

Should have a filter to only select room with a specific room-type “Large”, “X-Large”, “small”.

A combination filter e.g. room-type=”Large or X-Large” is possible

Should concurrently pull data from 2 sources.

Can also update  sources for inventory i.e. can book the hotel rooms and update availability.

Below is a sample data as a minimum guideline. You are free to change it, add remove fields to make it better.

**Sample Data model (considering combined data):**

[

  {

    "source": "A",

    "name": "Hotel-12XY",

    "availability": 10,

    "date": "10-March-2020",

    "room-type": "Large"

  },

  {

    "source": "B",

    "name": "Hotel-55XZ",

    "availability": 5,

    "date": "10-March-2020",

    "room-type": "X-Large"

  },

  {

    "source": " B",

    "name": "Hotel-56FF",

    "availability": 2,

    "date": "10-March-2020",

    "room-type": "small"

  },

  {

    "source": "A",

    "name": "Hotel-23KL",

    "availability": 5,

    "date": "10-March-2020",

    "room-type": "Large"

  }

]