

ASSIGNMENT

Write a Golang based HTTP server which accepts GET requests with input parameter as “sortKey” and “limit”. The server queries three URLs mentioned below, combines the results from all three URLs, sorts them by the sortKey and returns the response. The Server should also limit the number of items in the API response to input parameter “limit”.

URLS:

<https://raw.githubusercontent.com/assignment132/assignment/main/duckduckgo.json>

<https://raw.githubusercontent.com/assignment132/assignment/main/google.json>

<https://raw.githubusercontent.com/assignment132/assignment/main/wikipedia.json>

PARAMETERS:

Parameter	Type	Example
sortKey	String	relevanceScore or views
limit	Integer	Greater than 1, less than 200

RESPONSE FORMAT

```
{
  "data": [
    {
      "url": "www.yahoo.com/abc6",
      "views": 6000,
      "relevanceScore": 0.6
    },
    ...
  ],
  "count": <number of items> in the result,
}
```

REQUIREMENTS

1. The server should query URLs concurrently.
2. Server should have re-try mechanism and error handling on failures while querying URLs.
3. Code should have unit tests
4. Provide README for testing and deployment.

BONUS POINTS

5. Provide deployment manifests to deploy the service in a Kubernetes cluster by following best practices.

Once completed please upload your solution to your github account