**Fix/workaround the slowness and timeout problems in our app**

The application in concern ingests live data from an external service, coverts its format and displays it when requested.

The lag in the response is due to the delay experienced in fetching the data from the external service <http://sleepy-thicket-8107.herokuapp.com/date>. This delay is beyond correction as the service is external and its performance along with the connecting network speed are not within our control. However, with the assumption that the business will accept data with a maximum of 2 hours lag, data retrieved from the latest request (not older than 2 hours) can be **cached**, which will be used to serve any request to our app.

Data cached will be available more promptly and will thus solve the performance problem of our app.

There can be multiple ways for caching the data retrieved from the external web service. Listed below are just a few suggestions:

1. **AWS Elasticache service**(if app deployed on AWS): AWS Elasticache is a manged web service which offers an in-memory cache environment in the cloud. It has two options for the cache engine: Redis and Memcached. For the application in scope here, Memcached is a more suitable choice.
2. **Memcache - Google Cloud Platform**
3. **External Caching service by IBM**