

# Program 2: REST

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## Introduction:

This java application allows users to retrieve information about weather, movies, and cocktails from the Openweather and rapid API website. The application implements exponential back-off logic to handle temporary network errors and rate limiting.

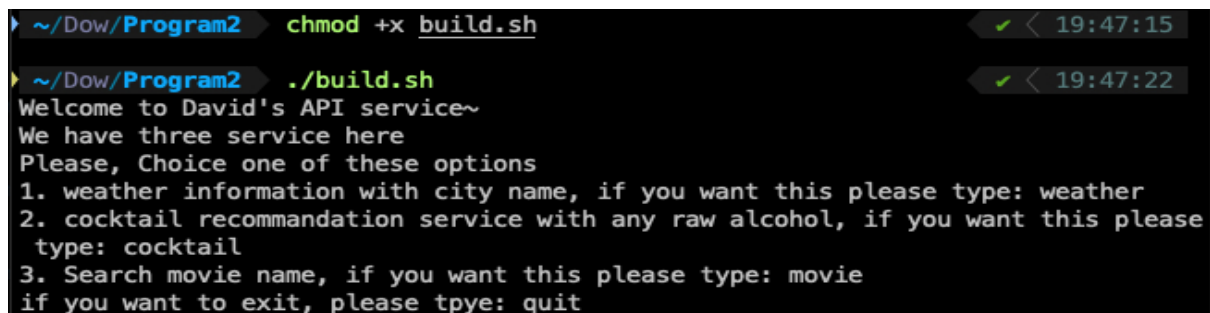
## Design:

The application consists of a single Java class called "API" that implements the following functionality:

- Sends a GET request to the cocktail DB API to search for a cocktail by its name
- Sends a GET request to the weather DB API to search city weather information by its name
- Sends a GET request to the movie DB API to search any related movie or series information by its name
- Parse the response from the API to retrieve the first cocktail in the search results
- Print the search result to the console.

Usage: To use the application, follow these steps:

1. compile and run the application. Type the `./build.sh` in the terminal.
2. The application will send a request to each API, retrieve the search results, and print the result to the console.
3. Type:  
`chmod +x build.sh`  
`./build.sh` in terminal



```
~/Dow/Program2 > chmod +x build.sh ✓ < 19:47:15
~/Dow/Program2 > ./build.sh ✓ < 19:47:22
Welcome to David's API service~
We have three service here
Please, Choice one of these options
1. weather information with city name, if you want this please type: weather
2. cocktail recommendation service with any raw alcohol, if you want this please
type: cocktail
3. Search movie name, if you want this please type: movie
if you want to exit, please tpye: quit
```