Project 4 Task 2 – NASA Tech Port Projects, by Spriha Gupta

Description: My application allows user to select a project from a list of 10 most recently updated projects on the NASA TechPort API (dynamic). The application takes the selected option from the user and uses it to fetch and display the project details-name of the project, status of the project and organization leading the project. Every action by the user is logged in the mongoDB which is queried to display the key metrics along with the entire logs in the analytics dashboard. Here is how my application meets the task requirements:

#Important

The URL of my web service deployed to Heroku is: https://radiant-everglades-11032.herokuapp.com/

The project directory name is Project4Task2Web

1. Log useful information

My mongoDB tracks the phone model (manufacturer and model name), NASA project id selected by user, android id of the model (different emulators provide different android ids), URL fetched by the web service, date of request and time taken by web service to fetch the API.

2. Store the log information in a database

The web service can connect, store, and retrieve information from a MongoDB database in the cloud (URL: mongodb+srv://spriha:hell1234@spriha-cluster-ukpyl.mongodb.net/test?retryWrites=true&w=majority)

3. Display operations analytics and full logs on a web-based dashboard

3.1. A unique URL addresses a web interface dashboard for the web service.

https://radiant-everglades-11032.herokuapp.com/getDashboard

3.2. The dashboard displays at least 3 interesting operations analytics.

Average NASA Search Latency computes the average of the time taken by web service to fetch the API's for each request.

Most Viewed Project tracks the projects most selected by the user in the drop down.

No. Of Unique Hits tracks the unique hits (by Android Id) to the webservice (this will treat each emulator/model as one hit) .

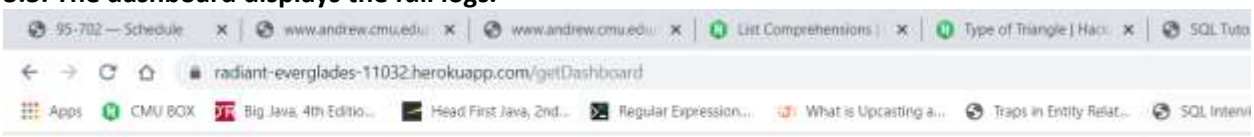
KEY METRICS

Average NASA Search Latency(in milliseconds): 358

Most Viewed Project: "94226"

No. Of Unique Hits: 3

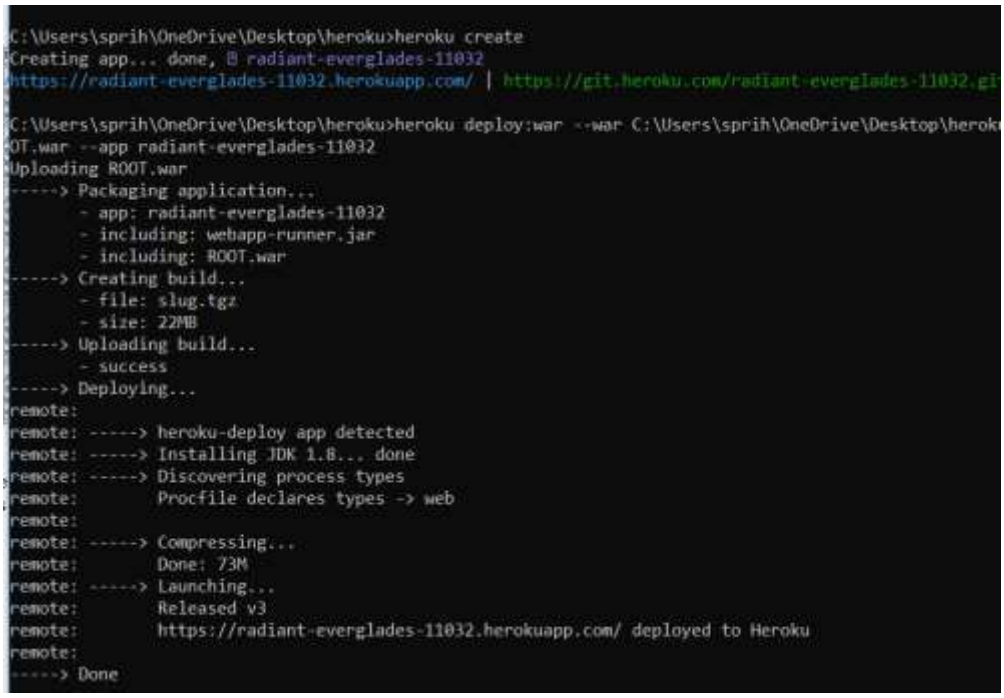
3.3. The dashboard displays the full logs.



ANDROID LOGS

ANDROID_ID	PROJECT	URL	DEV	DATE	LATENCY
"fe5f55aad777ffd6"	"94226"	"https://api.nasa.gov/techport/api/projects/94226.json?api_key=IKGcHbsc2qhsdWs0lAddU2CiStnR60dHUVOihnvD"	"Google Android SDK built for x86"	"2019/11/10 21:01:29"	"132"
"fe5f55aad777ffd6"	"95031"	"https://api.nasa.gov/techport/api/projects/95031.json?api_key=IKGcHbsc2qhsdWs0lAddU2CiStnR60dHUVOihnvD"	"Google Android SDK built for x86"	"2019/11/10 21:01:50"	"452"
"fe5f55aad777ffd6"	"94218"	"https://api.nasa.gov/techport/api/projects/94218.json?api_key=IKGcHbsc2qhsdWs0lAddU2CiStnR60dHUVOihnvD"	"Google Android SDK built for x86"	"2019/11/10 21:01:52"	"341"
"fe5f55aad777ffd6"	"95031"	"https://api.nasa.gov/techport/api/projects/95031.json?api_key=IKGcHbsc2qhsdWs0lAddU2CiStnR60dHUVOihnvD"	"Google Android SDK built for x86"	"2019/11/10 21:02:42"	"408"
"fe5f55aad777ffd6"	"94239"	"https://api.nasa.gov/techport/api/projects/94239.json?api_key=IKGcHbsc2qhsdWs0lAddU2CiStnR60dHUVOihnvD"	"Google Android SDK built for x86"	"2019/11/10 21:02:49"	"365"
"fe5f55aad777ffd6"	"94236"	"https://api.nasa.gov/techport/api/projects/94236.json?api_key=IKGcHbsc2qhsdWs0lAddU2CiStnR60dHUVOihnvD"	"Google Android SDK built for x86"	"2019/11/10 21:03:14"	"219"

4. Deploy the web service to Heroku



The web service was deployed to Heroku. This web service handles the horizontal integration of android app to API along with the vertical integration of mongoDB and Web Dashboard.