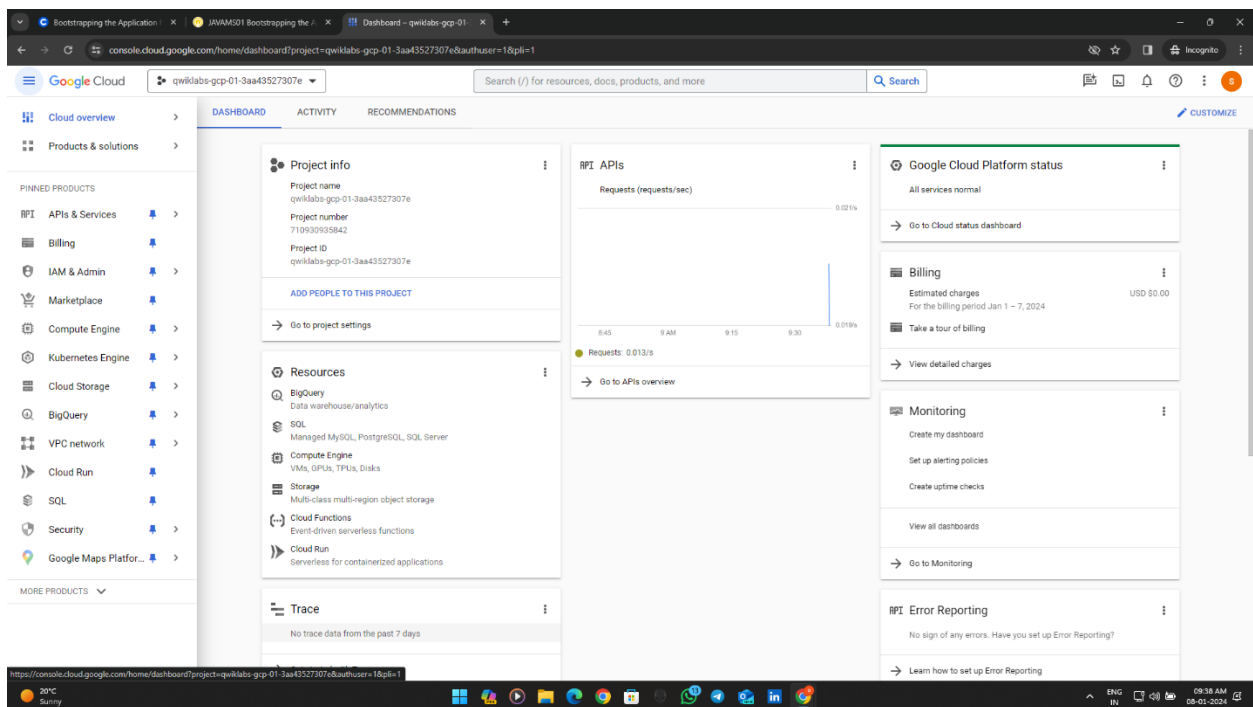
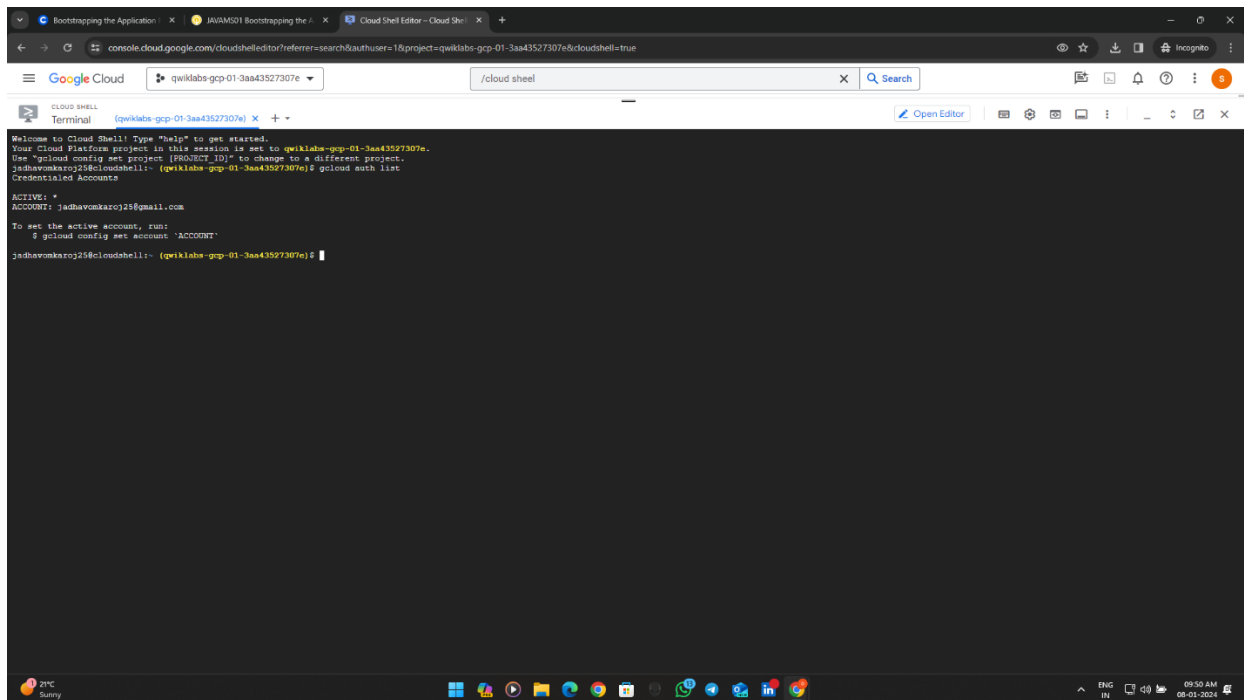


# Bootstrapping the Application Frontend and Backend two independent microservices components of the application by running them in the Cloud Shell using two separate Cloud Shell console tabs.

## GOOGLE CLOUD QUICKLABS CONSOLE :

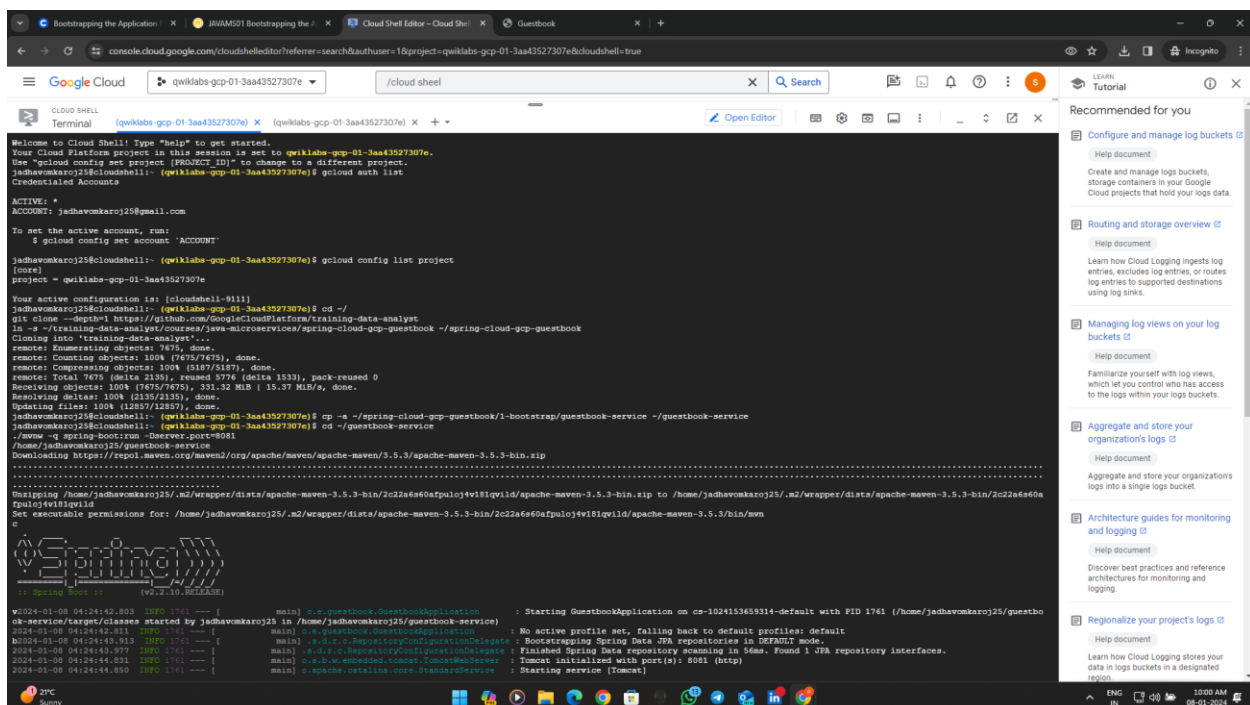


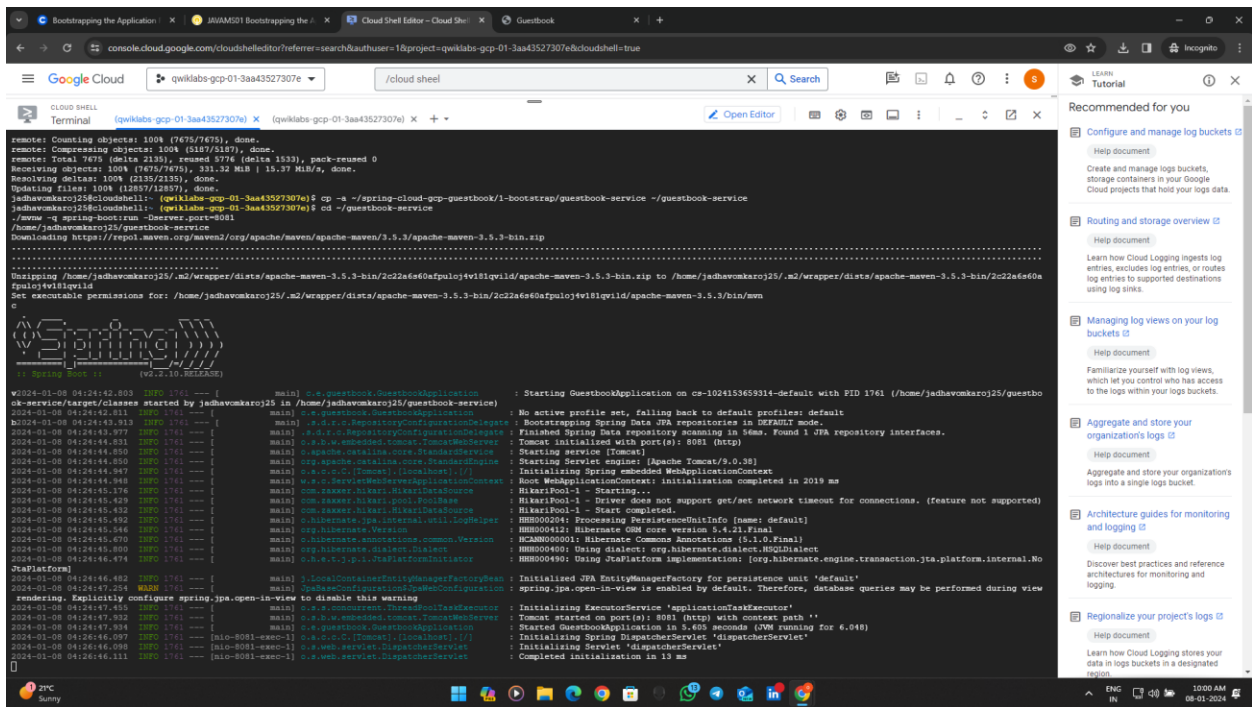
## CLOUD SHELL :



## ACTIVATE ACCOUNT & CONFIGURE SPRING CLOUD SHELL :

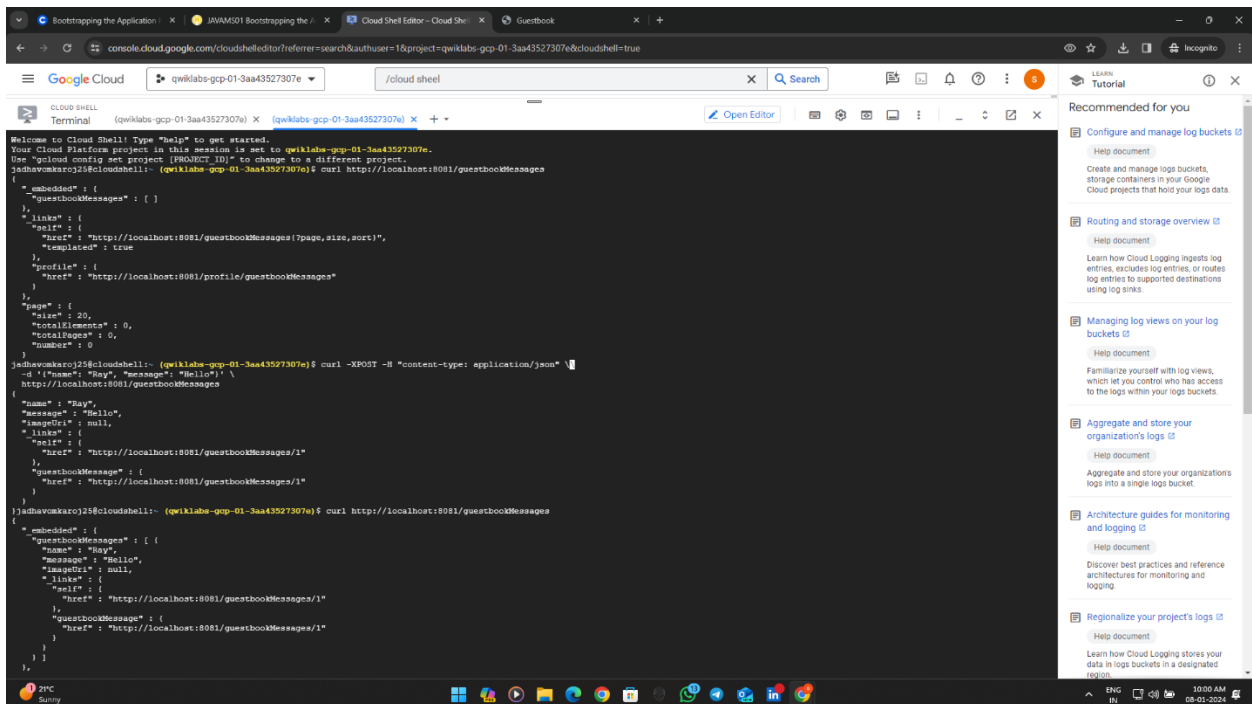
In that create microservices spring cloud guestbook with bootstrap service. After that clone data from training dataset for enumerating, counting, and compressing objects with resolving deltas and updating the files. In that we use **Apache-Maven-3.5.3-bin** then start guestbook application with the help of spring boot.





## BACKEND SPRING CLOUD DATABASE:

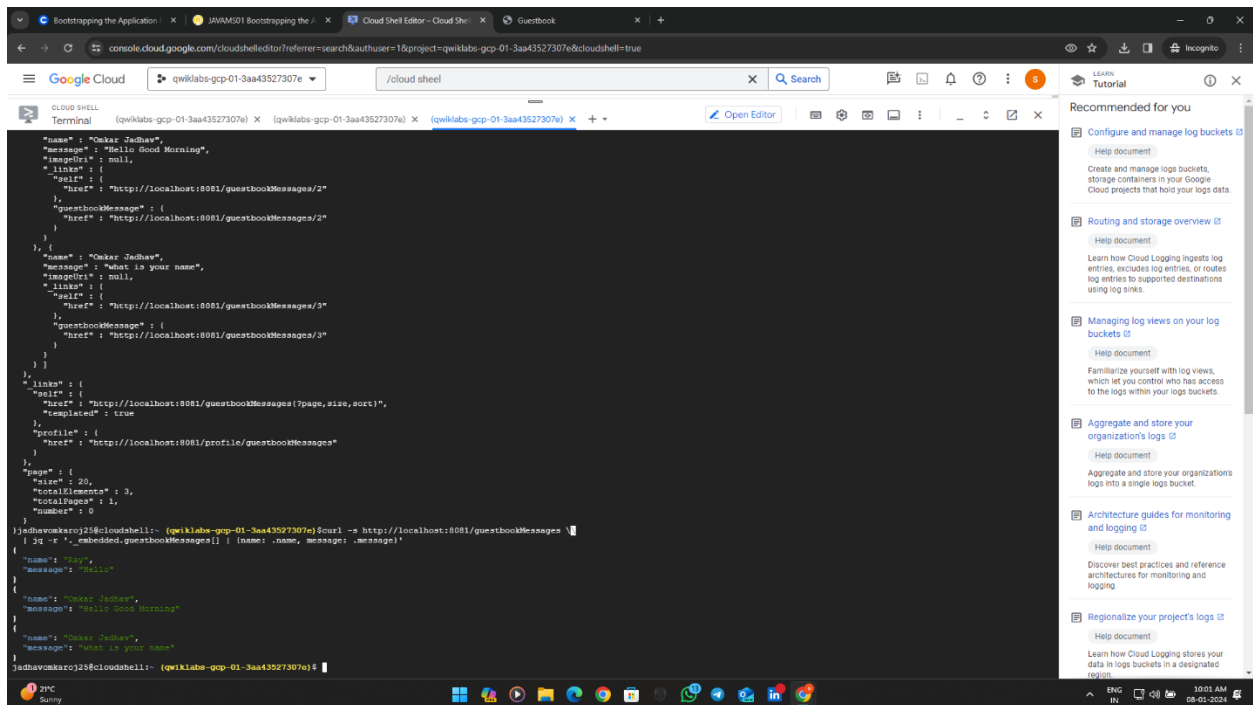
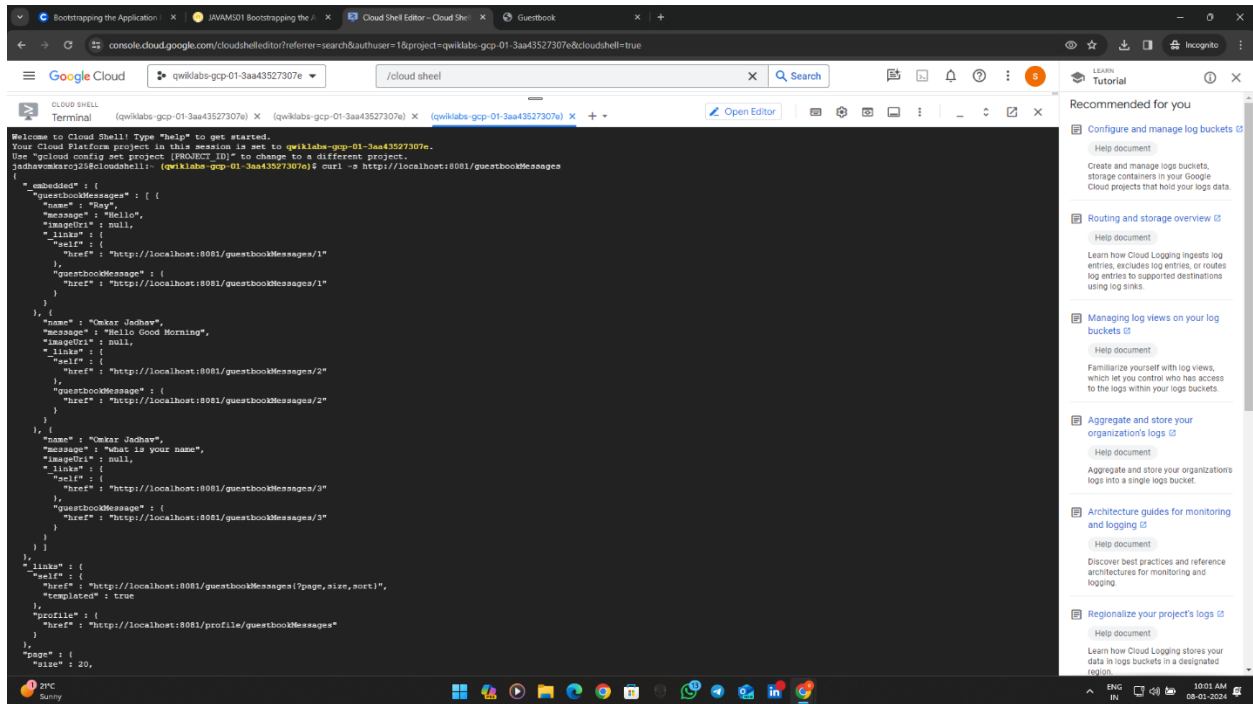
Database on localhost 8081:/guestbookMessage create a profile to send message service with the help of spring boot.





## Backend Activity Monitoring:

With localhost Port-8080



## Logs of Operations:

Cloud Shell logs Explorer final query log with its histogram chart and log fields.

The screenshot displays the Google Cloud Logs Explorer interface within a web browser. The interface is divided into several sections:

- Left Sidebar:** Contains navigation links for Logging, Logs Explorer, Log Analytics, Logs Dashboard, Log-based Metrics, Log Router, Logs Storage, and Integrations.
- Top Bar:** Includes the Google Cloud logo, a search bar, and various utility icons like 'Share link', 'Learn', and 'Tutorial'.
- Query Editor:** Shows a query string: `1 (logName = "projects/qwiklabs-gcp-01-3aa43527307e/logs/cloudaudit.googleapis.com/2/activity" OR logName = "projects/qwiklabs-gcp-01-3aa43527307e/logs/cloudaudit.googleapis.com/2/data-access" OR labels.activity_type_name = "resource.type=audited_resource" severity=NOTICE 4 logName="projects/qwiklabs-gcp-01-3aa43527307e/logs/cloudaudit.googleapis.com/2/activity" 5 resource.labels.project_id="qwiklabs-gcp-01-3aa43527307e" 6 resource.labels.service="logging.googleapis.com" 7 resource.labels.method="google.logging.v2.ConfigServiceV2.UpdateBucketAsync"`
- Histogram:** A chart showing log volume over time, with a peak around Jan 1, 8:30 AM.
- Log Fields:** A list of filters applied to the query, including RESOURCE TYPE, Audited Resource, SEVERITY, LOG NAME, PROJECT ID, SERVICE, logging.googleapis.com, and METHOD.
- Log Entries:** A table showing log entries with columns for SEVERITY, TIME, ID, and SUMMARY. The table displays 4 log entries for the last 7 days.
- Right Sidebar:** Contains 'Recommended for you' section with links to 'Using the Logs Explorer', 'Quickstart: Cloud Logging tour and introduction', 'Quickstart: Collect logs from an Apache web server with the Ops Agent', 'Use cases for Logging', 'Architecture guides for monitoring and logging', and 'Build queries in the Logs Explorer'.

The bottom of the screen shows a Windows taskbar with various application icons and a system tray with the date and time (08-01-2024, 10:03 AM).