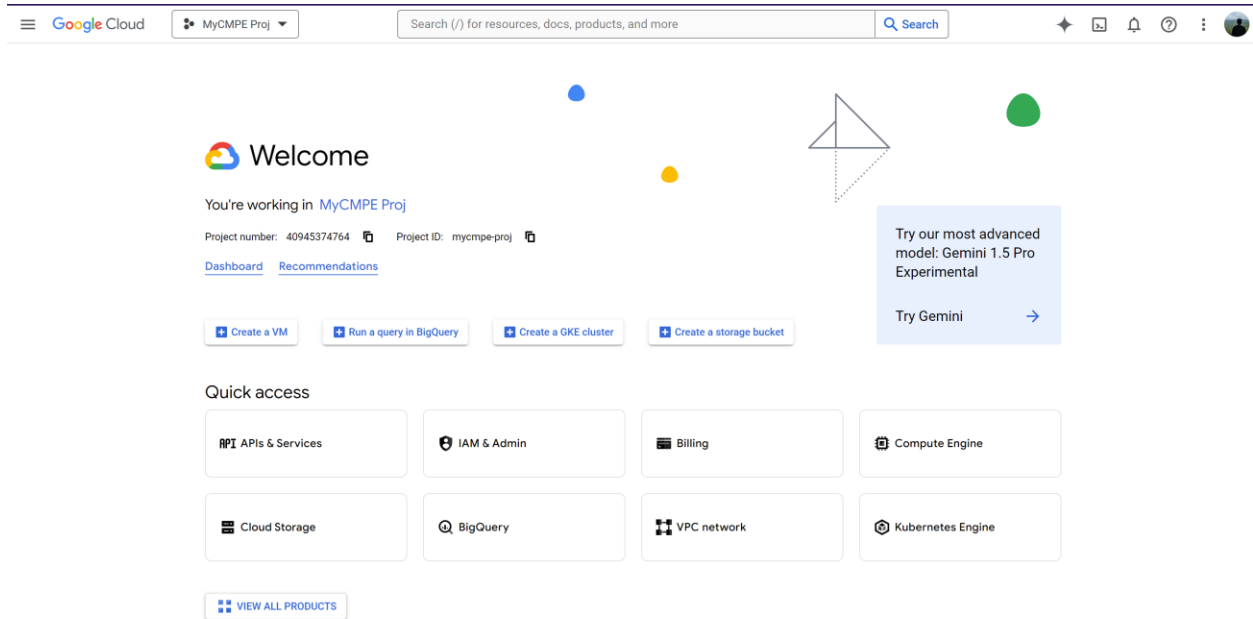


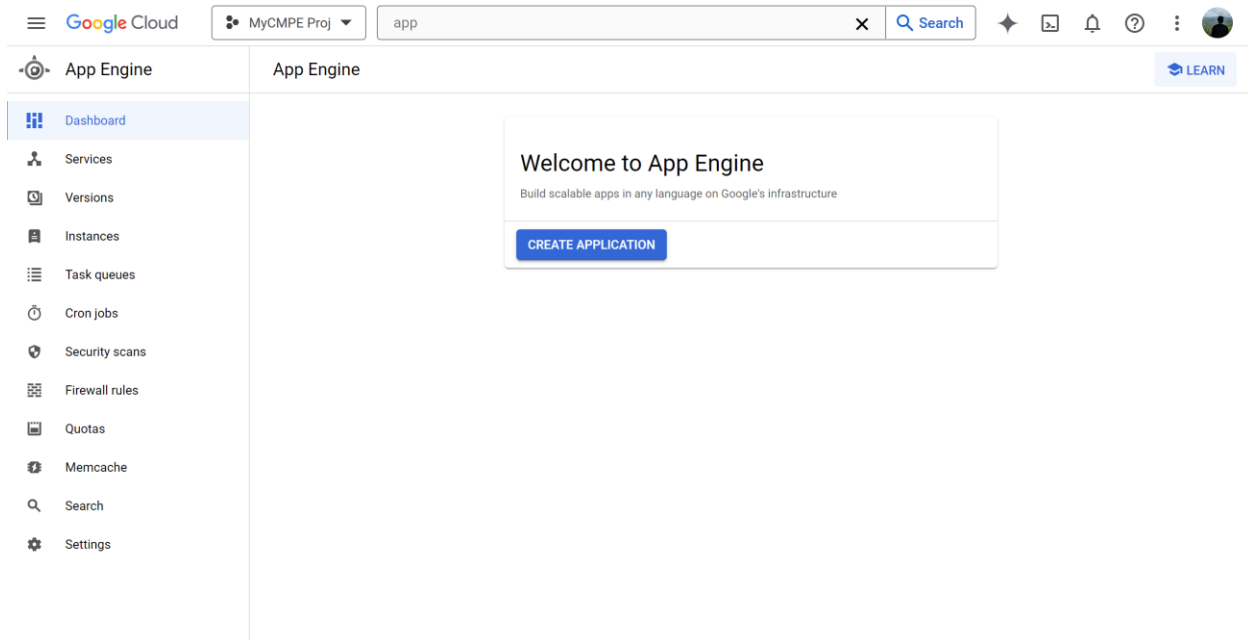
## CMPE – 281 Lab#2 – Google App Engine

- SHREEKAR KOLANU

Step 1- Create an account and Login to your Google cloud Dashboard




Now search app engine in the search bar and go the App engine





Now we download Visual Studio code

 Visual Studio Code

Docs Updates Blog API Extensions FAQ Learn

Search Docs

Download

Version 1.88 is now available! Read about the new features and fixes from March.



### Windows

Windows 10, 11

User Installer

System Installer

.zip

CLI

x64

Arm64

x64

Arm64

x64

Arm64

x64

Arm64



### .deb

Debian, Ubuntu

.deb

.rpm

.tar.gz

Snap

CLI

x64

Arm32

Arm64

x64

Arm32

Arm64

x64

Arm32

Arm64

Snap Store

x64

Arm32

Arm64



### Mac

macOS 10.15+

.zip

CLI

Intel chip

Apple silicon

Universal

Intel chip

Apple silicon

By downloading and using Visual Studio Code, you agree to the [license terms](#) and [privacy statement](#).

Want new features sooner?

Get the [Insiders build](#) instead.

Use [vscode.dev](#) for quick

edits online!

GitHub, Azure Repos, and local

...

After installing the IDE we now go to File→Settings →Plugins and install the google cloud code

Cloud

# Gemini + Google Cloud Code

Google Plugin homepage ↗

Install

X

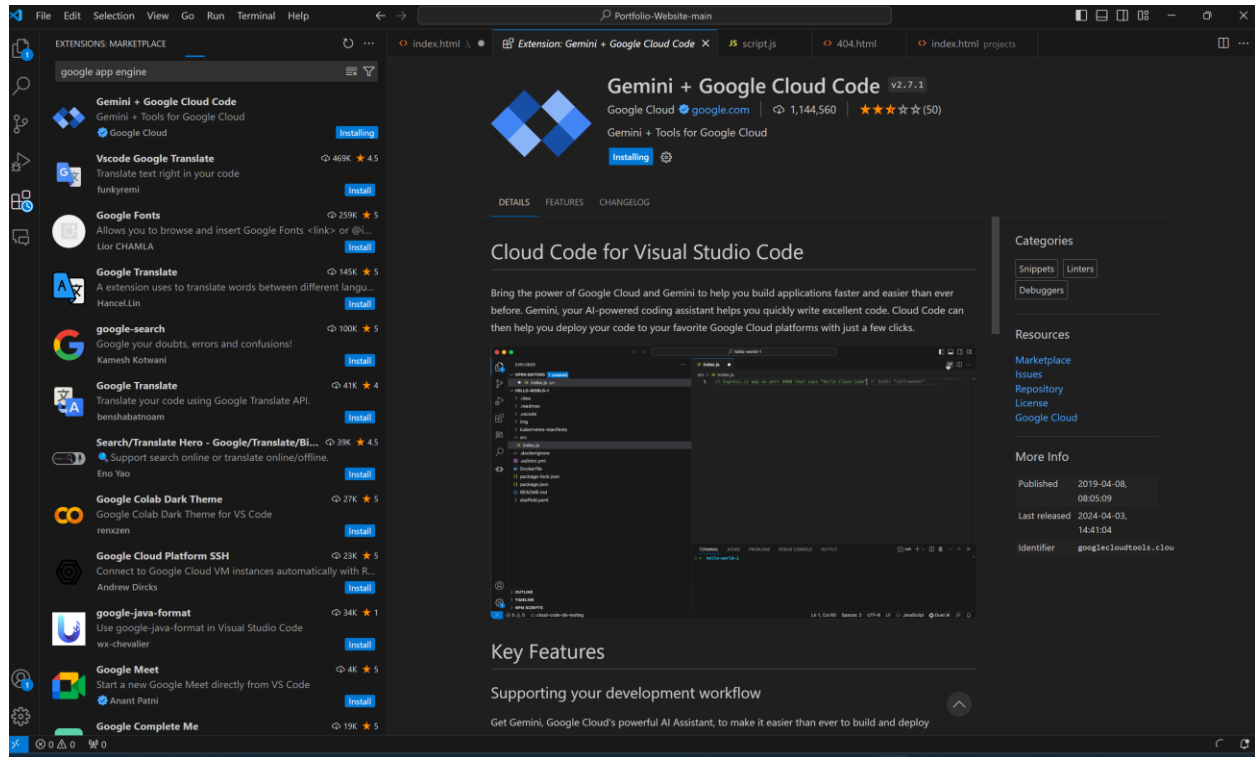
Overview

What's New

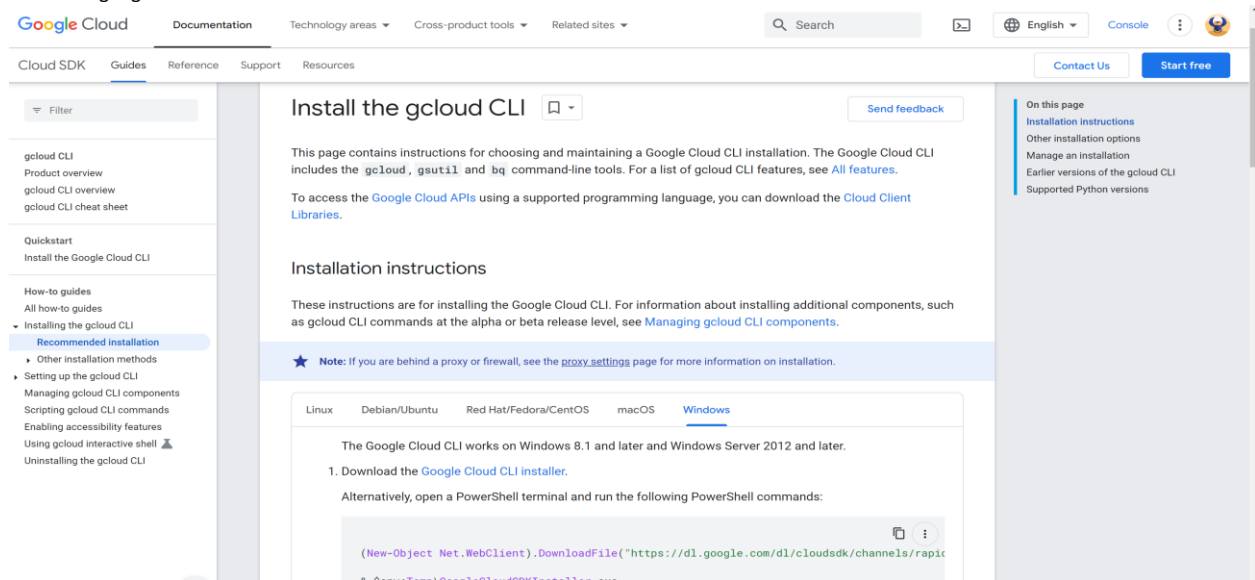
Reviews

Additional Info

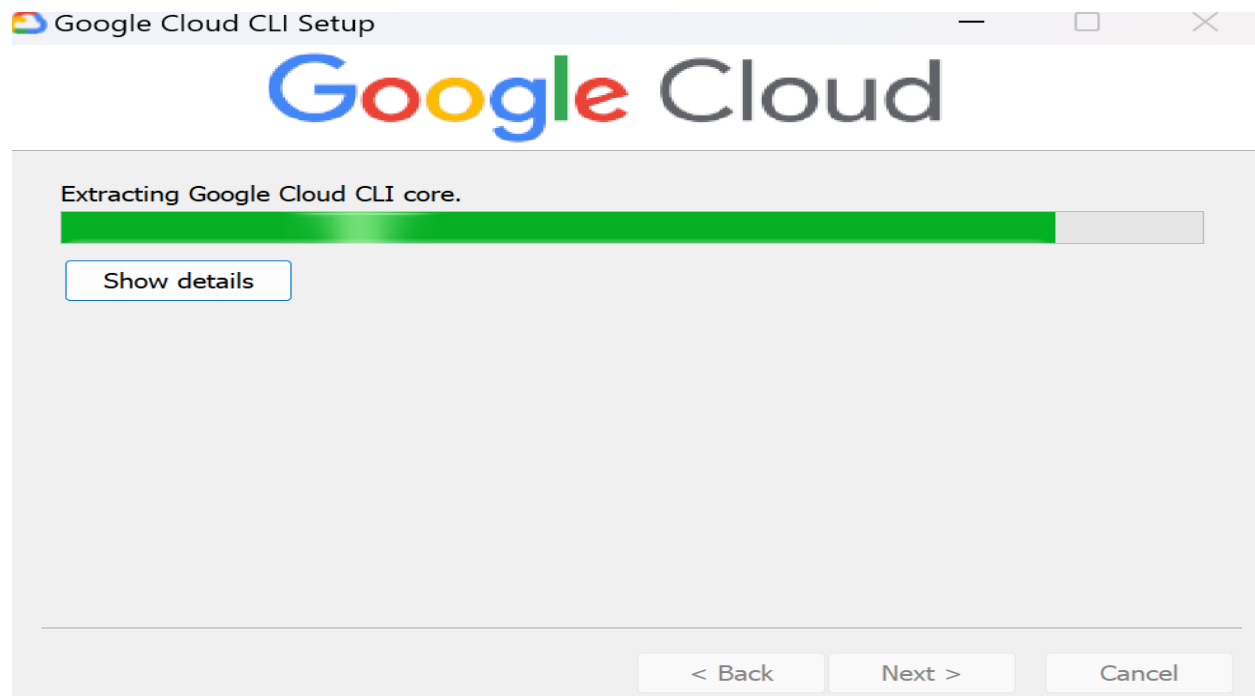
Install the google app engine plugin (now renamed as Google cloud Code)



Install the google cloud CLI



CLI Setup installing



After installing the gcloud cli you can hit **gcloud init** to initialize your app engine connectivity locally. (You will be prompted to login to gcp)

```
C:\Windows\SYSTEM32\cmd.exe
You can skip diagnostics next time by using the following flag:
gcloud init --skip-diagnostics

Network diagnostic detects and fixes local network connection issues.
Checking network connection...done.
Reachability Check passed.
Network diagnostic passed (1/1 checks passed).

You must log in to continue. Would you like to log in (Y/n)? Y

Your browser has been opened to visit:

https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=325559405%2F%2Flocalhost%3A8085%2F&scope=openid+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuseh%2Fcloud-platform+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fappengine.admin+https%3n+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcompute+https%3A%2F%2Fwww.googleapis.comrJR0pMXnQgF3&access_type=offline&code_challenge=u_u_HpViPV-iVw32Mf7JbotzkrSP_EqLIH7L

You are logged in as: [shreekarkolanu@gmail.com].

Pick cloud project to use:
[1] ageless-union-276217
[2] glassy-signal-276217
[3] gleaming-medium-276118
[4] mycmpe-proj
[5] shreek-f7787
[6] trans-setup-420002
[7] windows-workload-demo-276306
[8] Enter a project ID
[9] Create a new project
Please enter numeric choice or text value (must exactly match list item):
```

Choose the project you created in your app engine so that you can deploy it via the engine you have chosen.

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

You are logged in as: [shreekarkolanu@gmail.com].

Pick cloud project to use:

- [1] ageless-union-276217
- [2] glassy-signal-276217
- [3] gleaming-medium-276118
- [4] mycmpe-proj
- [5] shreek-f7787
- [6] trans-setup-420002
- [7] windows-workload-demo-276306
- [8] Enter a project ID
- [9] Create a new project

Please enter numeric choice or text value (must exactly match list item): 6

Your current project has been set to: [trans-setup-420002].

Not setting default zone/region (this feature makes it easier to use [gcloud compute] by setting an appropriate default value for the --zone and --region flag).

See <https://cloud.google.com/compute/docs/gcloud-compute> section on how to set default compute region and zone manually. If you would like [gcloud init] to be able to do this for you the next time you run it, make sure the Compute Engine API is enabled for your project on the <https://console.developers.google.com/apis> page.

The screenshot displays the Visual Studio Code (VS Code) interface for a web application project. The Explorer sidebar on the left shows the project structure, including files like `index.html`, `app.yaml`, and `scripts.js`. The main editor window shows the content of `index.html`, which is an HTML dashboard template. The bottom panel shows the TERMINAL with commands for deploying the application to Google Cloud using `gcloud`, and the OUTPUT showing the deployment details and progress.

**Explorer Sidebar:**

- LAB2ZAPPENGINE
  - css
  - styles.css
  - js
  - scripts.js
  - gcloudignore
  - app.yaml
  - index.html

**Main Editor (index.html):**

```

1 <html lang="en">
2 <body>
3
4 <main>
5
6 <section id="dashboard-section">
7 <div id="dashboard">
8
9 </div>
10 </section>
11 </main>
12 <footer>
13 <p>&copy; 2024 TracSmart Platform</p>
14 </footer>
15 <script src="https://maps.googleapis.com/maps/api/js?key=YOUR_API_KEY&callback=initMap" async defer></script>
16 <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
17 <script src="js/scripts.js"></script>
18 </body>
19 </html>

```

**Terminal:**

```

You can stream logs from the command line by running:
$ gcloud app logs tail -s default

To view your application in the web browser run:
$ gcloud app browse

PS D:\C\MP\281\Tracsmart\Lab2zappengine> gcloud app browse
Opening [https://trans-setup-420002.w1.r.appspot.com] in a new tab in your default browser.
PS D:\C\MP\281\Tracsmart\Lab2zappengine> gcloud app deploy
Services to deploy:

descriptor:      [D:\C\MP\281\Tracsmart\Lab2zappengine\app.yaml]
source:         [D:\C\MP\281\Tracsmart\Lab2zappengine]
target project: [trans-setup-420002]
target service: [default]
target version: [20240410t213733]
target url:     [https://trans-setup-420002.w1.r.appspot.com]
target service account: [trans-setup-420002@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? Y

Beginning deployment of service [default]...
=====
#=> Uploading 1 file to Google Cloud Storage
=====

```

**Output:**

```

PS D:\C\MP\281\Tracsmart\Lab2zappengine> gcloud app browse
Opening [https://trans-setup-420002.w1.r.appspot.com] in a new tab in your default browser.
PS D:\C\MP\281\Tracsmart\Lab2zappengine> gcloud app deploy
Services to deploy:

descriptor:      [D:\C\MP\281\Tracsmart\Lab2zappengine\app.yaml]
source:         [D:\C\MP\281\Tracsmart\Lab2zappengine]
target project: [trans-setup-420002]
target service: [default]
target version: [20240410t213733]
target url:     [https://trans-setup-420002.w1.r.appspot.com]
target service account: [trans-setup-420002@appspot.gserviceaccount.com]

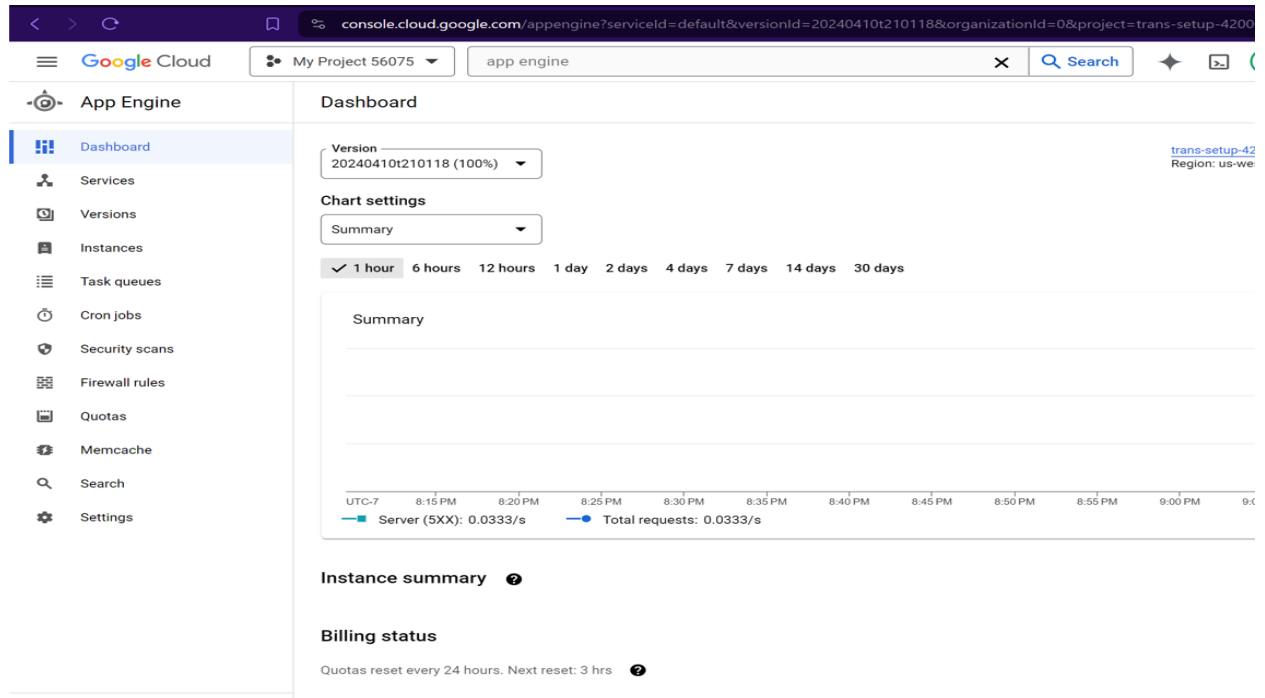
Do you want to continue (Y/n)? Y

Beginning deployment of service [default]...
=====
#=> Uploading 1 file to Google Cloud Storage
=====

```

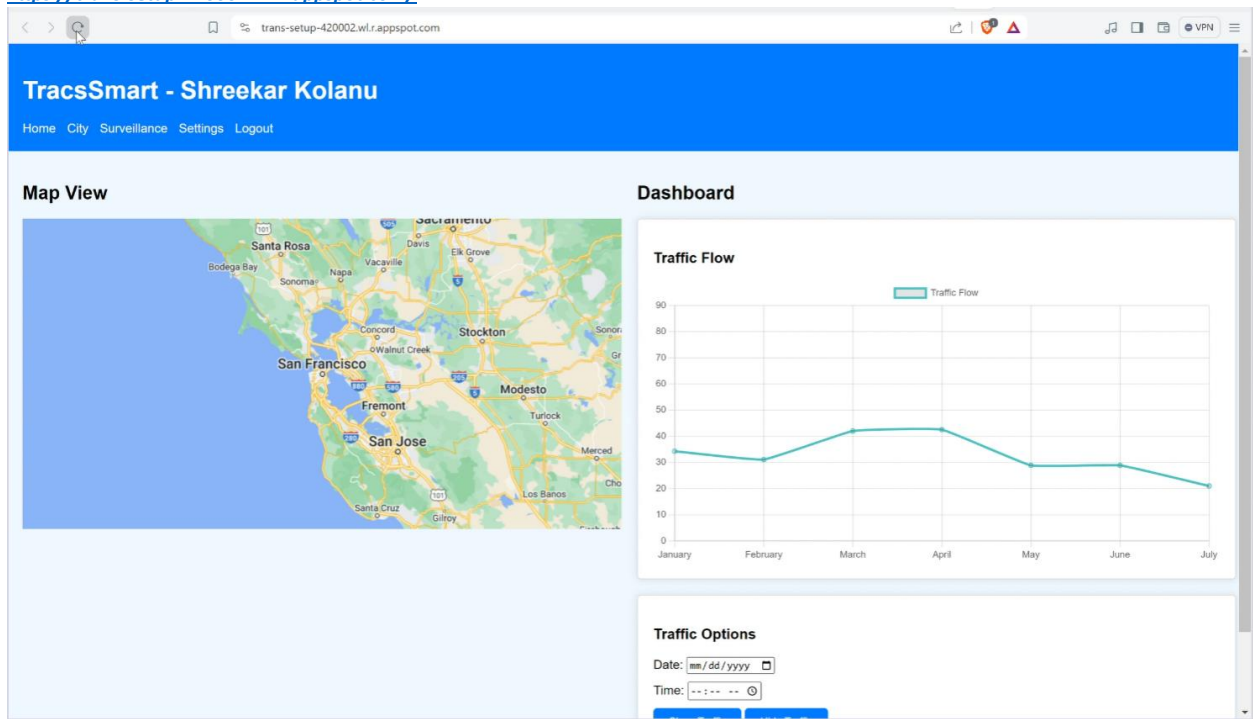
The screenshot shows the Google Cloud App Engine dashboard for project 'trans-setup-420002'. The left sidebar lists navigation options: Dashboard, Services, Versions, Instances, Task queues, Cron jobs, Security scans, Firewall rules, Quotas, Memcache, Search, and Settings. The main content area is titled 'Dashboard' and includes a 'Version' dropdown set to 'All versions' and a 'Chart settings' dropdown set to 'Summary'. Below these are time range selectors: '1 hour' (selected), '6 hours', '12 hours', '1 day', '2 days', '4 days', '7 days', '14 days', and '30 days'. The chart, titled 'Summary', displays two metrics: 'Server (5XX): 0' (represented by a teal line) and 'Total requests: 0' (represented by a blue line). The x-axis shows time from UTC-7 to 10:00 PM. The y-axis for 'Total requests' ranges from 0 to 0.5/s. The chart shows several small peaks in total requests between 9:05 PM and 9:40 PM, followed by a sharp spike to 0.5/s at 9:55 PM. The 'Server (5XX)' metric remains at 0 throughout the period. A legend at the bottom of the chart area identifies the two data series. To the right of the chart, there is a link to 'trans-setup-420002.wl.r.appspot.com' and the text 'Region: us-west2'. Below the chart, there are sections for 'Instance summary' and 'Billing status'.

This is how the dashboard looks when the site is still not deployed.



As you can see the app engine link that's live for the website.

<https://trans-setup-420002.wl.r.appspot.com/>



Our web application is now deployed live via the App Engine.