

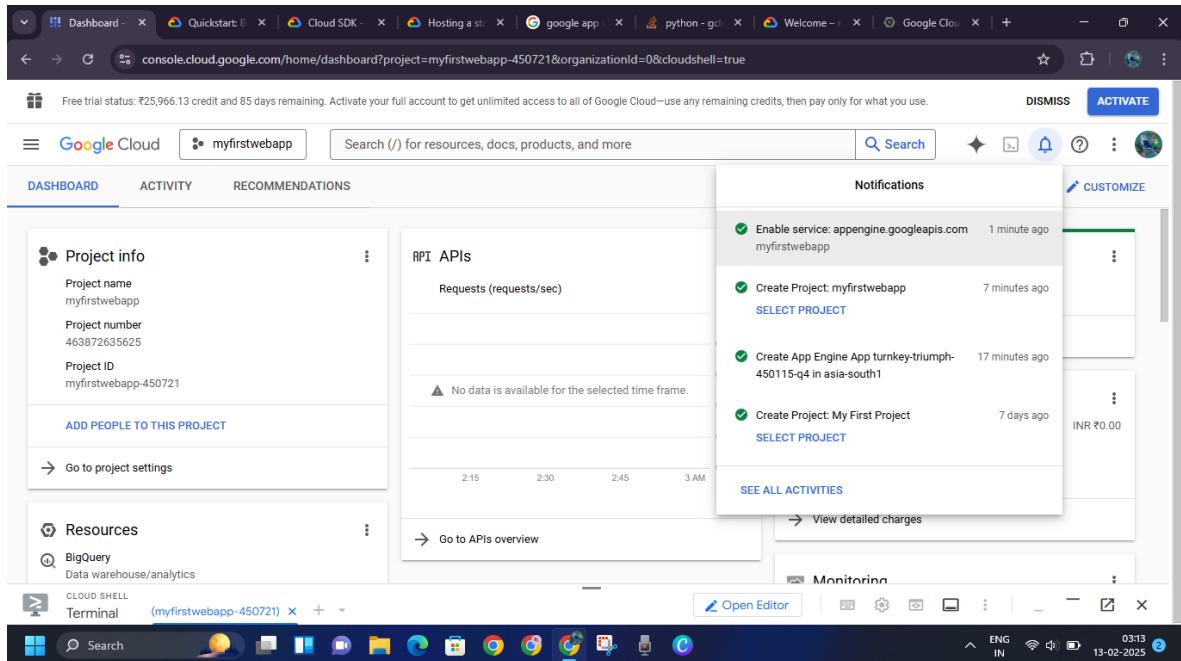
Name: **Piyusha Rajendra Supe**

Enrolment Number: **23CO315 (TE-B)**

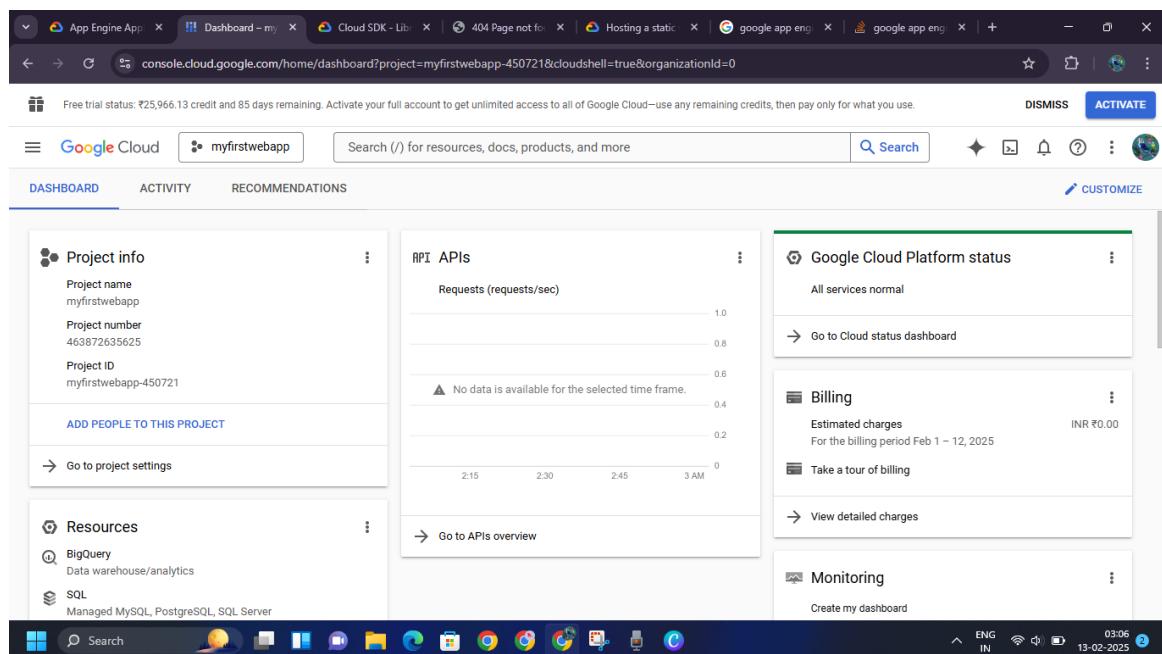
Practical 02

Aim: Installation and configure Google App Engine

[1] Firstly when you open google cloud account, make sure the auto-payments and admin billing is enabled



[2] Then create a new project and select and access it



Piyusha Supe (23CO315) Cloud Computing 2 Google App Engine

Google Cloud

Manage resources + CREATE PROJECT + CREATE FOLDER MOVE DELETE TAGS

Resources

Filter Filter

Name	ID	Last accessed	Status	Charges	Carbon emission
No organization		February 13, 2025		—	
My First Project	turnke...	February 13, 2025		—	
My First Project	dev-gu...	January 24, 2025		—	

RESOURCES PENDING DELETION

Notifications

- Create Project: myfirstwebapp
- Create App Engine App turnkey-triumph-450115-q4 in asia-south1 9 minutes ago
- Create Project: My First Project 7 days ago
SELECT PROJECT

IDE INFO PANEL

[3] Then create **directories** as below structure

Dashboard – myfirstwebapp

console.cloud.google.com/home/dashboard?project=myfirstwebapp-450721&organizationId=0&cloudshell=true

Free trial status: ₹25,966.13 credit and 85 days remaining. Activate your full account to get unlimited access to all of Google Cloud—use any remaining credits, then pay only for what you use.

DISMISS ACTIVATE

Google Cloud myfirstwebapp Search (/) for resources, docs, products, and more

CLOUD SHELL Editor

EXPLORER

PIHUSUPE

piyushawebiste > www > index.html

```
! app.yaml < index.html >
piyushawebiste > www > < index.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <title>Personal Bucket List Piyusha Supe</title>
7    <style>
8      body {
9        font-family: Arial, sans-serif;
10       margin: 0;
11       padding: 0;
12       background-color: #f9f9f9;
13       color: #333;
14     }
15
16     header, footer {
17       text-align: center;
18       padding: 20px;
19       background-color: #4CAF50;
20       color: white;
21     }

```

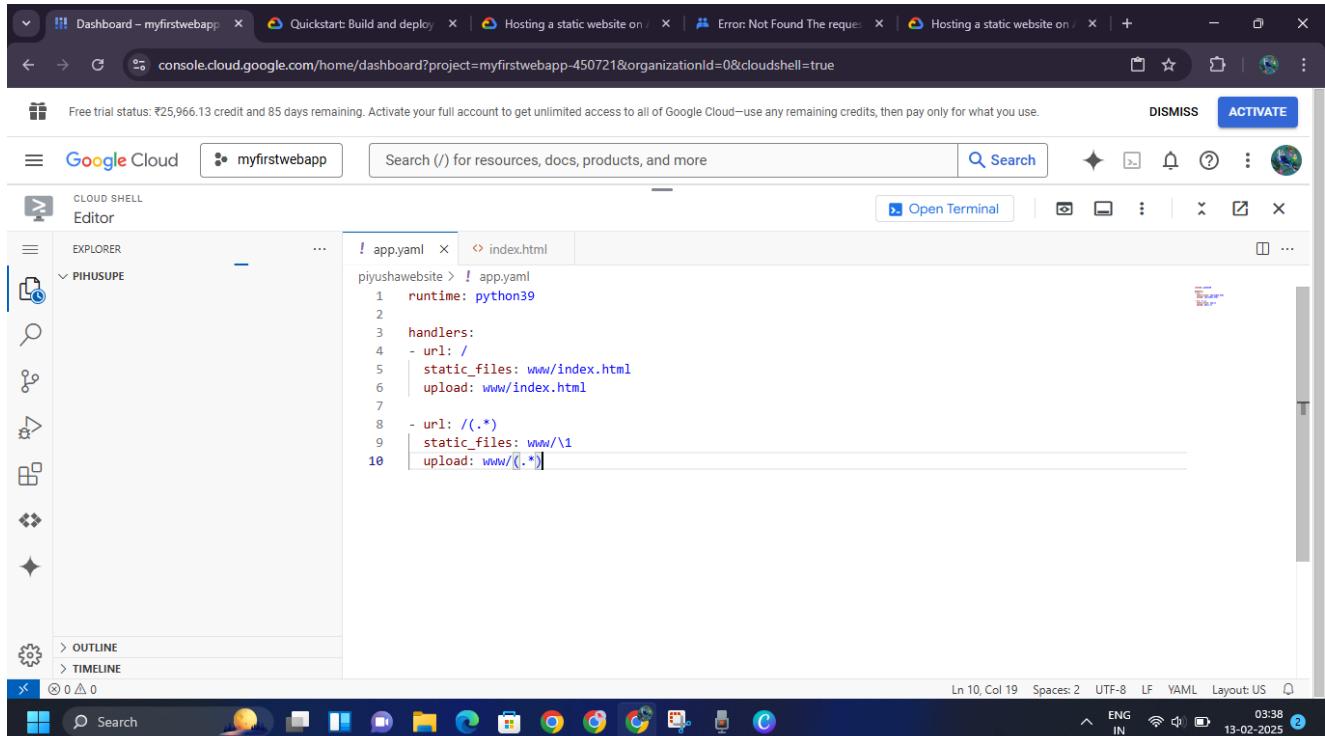
OUTLINE

TIMELINE

Cloud Code - Sign in

Ln 213, Col 1 Spaces: 2 UTF-8 LF HTML Layout: US

[4] Add your **app.yaml** file and all other files of your website in respective folders as per directory tree above



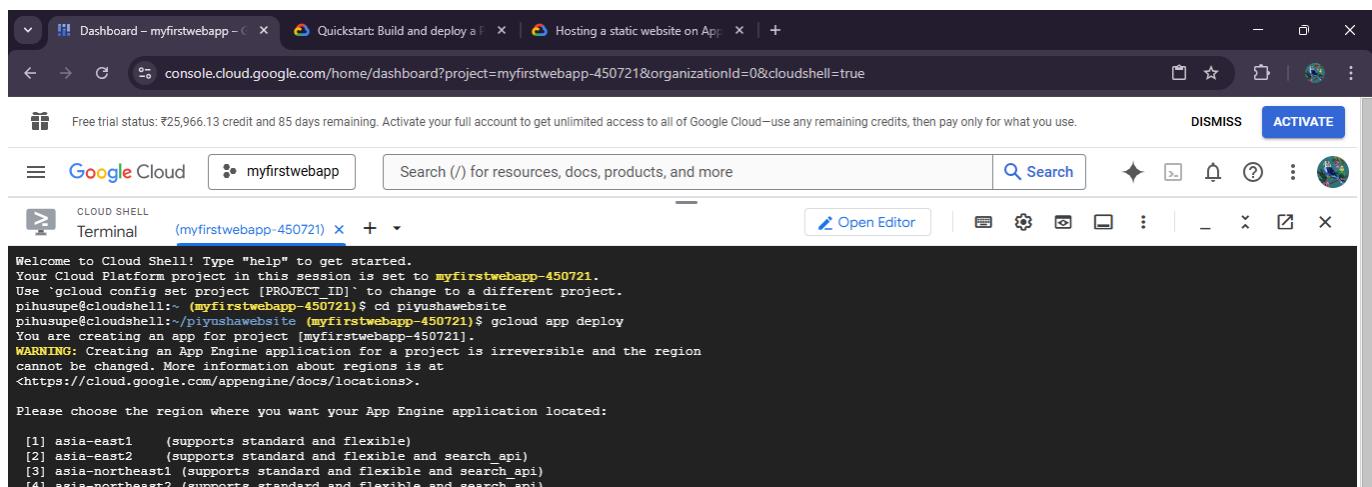
The screenshot shows the Google Cloud Platform Cloud Shell Editor interface. The left sidebar has 'CLOUD SHELL' and 'Editor'. The main area shows the 'EXPLORER' tab with a file tree under 'PIHUSUPE'. The 'app.yaml' file is open in the editor:

```
! app.yaml x index.html
piyushawebsite > ! app.yaml
1 runtime: python39
2
3 handlers:
4 - url: /
5   static_files: www/index.html
6   upload: www/index.html
7
8 - url: /(.*)
9   static_files: www/\1
10  upload: www/(\.*)


```

The status bar at the bottom shows 'Ln 10, Col 19' and other system information.

[5] Now access the command line and change directory to the root folder of your website, in my case it is '**cd piyushawebsite**'



The screenshot shows the Google Cloud Platform Cloud Shell terminal interface. The terminal window title is '(myfirstwebapp-450721)'. The terminal output shows the deployment process:

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to myfirstwebapp-450721.
Use `gcloud config set project [PROJECT_ID]` to change to a different project.
pihusupe@cloudshell:~ (myfirstwebapp-450721)$ cd piyushawebsite
pihusupe@cloudshell:~/piyushawebsite (myfirstwebapp-450721)$ gcloud app deploy
You are creating an app for project [myfirstwebapp-450721].
WARNING: Creating an App Engine application for a project is irreversible and the region
cannot be changed. More information about regions is at
<https://cloud.google.com/appengine/docs/locations>.

Please choose the region where you want your App Engine application located:

[1] asia-east1 (supports standard and flexible)
[2] asia-east2 (supports standard and flexible and search api)
[3] asia-northeast1 (supports standard and flexible and search api)
[4] asia-northeast2 (supports standard and flexible and search api)
```

[6] Then select your region very carefully as it cannot be undone later on. For India prefer to go with “asia-south1(Mumbai)”

The screenshot shows a Google Cloud Shell interface. The terminal window displays a list of available regions for an App Engine application. The user has selected option [6] 'asia-south1'. A blue notification bar at the top right says: 'You are viewing Cloud Shell in full view. Click here to restore Cloud Shell.' Below the list, it asks for a numeric choice, and the user has entered '6'. The terminal then starts creating the application in the specified region.

```

Dashboard - myfirstwebapp - X Quickstart: Build and deploy a ... Hosting a static website on App ... + console.cloud.google.com/home/dashboard?project=myfirstwebapp-450721&organizationId=0&cloudshell=true

Free trial status: ₹25,966.13 credit and 85 days remaining. Activate your full account to get unlimited access to all of Google Cloud—use any remaining credits, then pay only for what you use. DISMISS ACTIVATE

Google Cloud myfirstwebapp Search (/) for resources, docs, products, and more Open Editor

CLOUD SHELL Terminal (myfirstwebapp-450721) + Open Editor

<https://cloud.google.com/appengine/docs/locations>.

Please choose the region where you want your App Engine application located:

[1] asia-east1 (supports standard and flexible)
[2] asia-east2 (supports standard and flexible and search_api)
[3] asia-northeast1 (supports standard and flexible and search_api)
[4] asia-northeast2 (supports standard and flexible and search_api)
[5] asia-northeast3 (supports standard and flexible and search_api)
[6] asia-south1 (supports standard and flexible and search_api)
[7] asia-southeast1 (supports standard and flexible)
[8] asia-southeast2 (supports standard and flexible and search_api)
[9] australia-southeast1 (supports standard and flexible and search_api)
[10] europe-central2 (supports standard and flexible)
[11] europe-west (supports standard and flexible and search_api)
[12] europe-west2 (supports standard and flexible and search_api)
[13] europe-west3 (supports standard and flexible and search_api)
[14] europe-west6 (supports standard and flexible and search_api)
[15] northamerica-northeast1 (supports standard and flexible and search_api)
[16] southamerica-east1 (supports standard and flexible and search_api)
[17] us-central (supports standard and flexible and search_api)
[18] us-east1 (supports standard and flexible and search_api)
[19] us-east4 (supports standard and flexible and search_api)
[20] us-west1 (supports standard and flexible and search_api)
[21] us-west2 (supports standard and flexible and search_api)
[22] us-west3 (supports standard and flexible and search_api)
[23] us-west4 (supports standard and flexible and search_api)
[24] cancel

Please enter your numeric choice: 6

Creating App Engine application in project [myfirstwebapp-450721] and region [asia-south1]....working...

```

[7] Now deploy your project using command “gcloud app deploy”

The screenshot shows the continuation of the Google Cloud Shell session. The user has run the 'gcloud app deploy' command, which has completed successfully. The terminal then lists the services being deployed, including the descriptor, source, target project, target service, target version, target url, and target service account. It then asks if the user wants to continue with 'Do you want to continue (Y/n)?'. The deployment process begins, showing progress bars for file uploads and service updates.

```

Dashboard - myfirstwebapp - X Quickstart: Build and deploy a ... Hosting a static website on App ... + console.cloud.google.com/home/dashboard?project=myfirstwebapp-450721&organizationId=0&cloudshell=true

Free trial status: ₹25,966.13 credit and 85 days remaining. Activate your full account to get unlimited access to all of Google Cloud—use any remaining credits, then pay only for what you use. DISMISS ACTIVATE

Google Cloud myfirstwebapp Search (/) for resources, docs, products, and more Open Editor

CLOUD SHELL Terminal (myfirstwebapp-450721) + Open Editor

[18] us-east1 (supports standard and flexible and search_api)
[19] us-east4 (supports standard and flexible and search_api)
[20] us-west1 (supports standard and flexible)
[21] us-west2 (supports standard and flexible and search_api)
[22] us-west3 (supports standard and flexible and search_api)
[23] us-west4 (supports standard and flexible and search_api)
[24] cancel

Please enter your numeric choice: 6

Creating App Engine application in project [myfirstwebapp-450721] and region [asia-south1]....done.

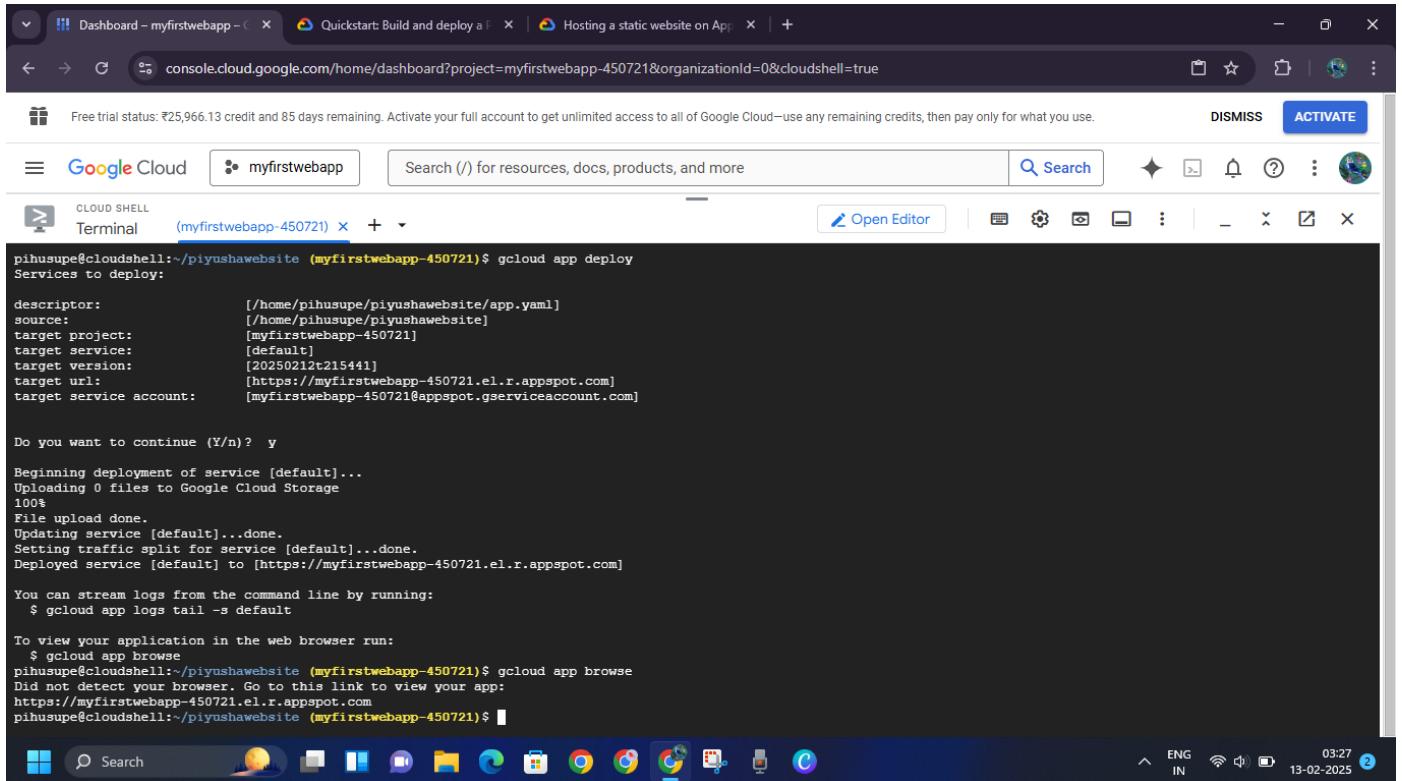
Services to deploy:
descriptor: [/home/piyusha/piyushawebiste/app.yaml]
source: [/home/piyusha/piyushawebiste]
target project: [myfirstwebapp-450721]
target service: [default]
target version: [20250212t215049]
target url: [https://myfirstwebapp-450721.el.r.appspot.com]
target service account: [myfirstwebapp-450721@appspot.gserviceaccount.com]

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

Beginning deployment of service [default]...
Created .gcloudignore file. See `gcloud topic gcloudignore` for details.
Uploading 2 files to Google Cloud Storage
50%
100%
100%
File upload done.
Updating service [default]...working...

```

[8] Then simply access your website hosted on the given link by using command “gcloud app browse”



```

pihusupe@cloudshell:~/piyushawebapp (myfirstwebapp-450721)$ gcloud app deploy
Services to deploy:
descriptor:      [/home/pihusupe/piyushawebapp/app.yaml]
source:          [/home/pihusupe/piyushawebapp]
target project: [myfirstwebapp-450721]
target service:  [default]
target version: [20250212t215441]
target url:     [https://myfirstwebapp-450721.el.r.appspot.com]
target service account: [myfirstwebapp-450721@appspot.gserviceaccount.com]

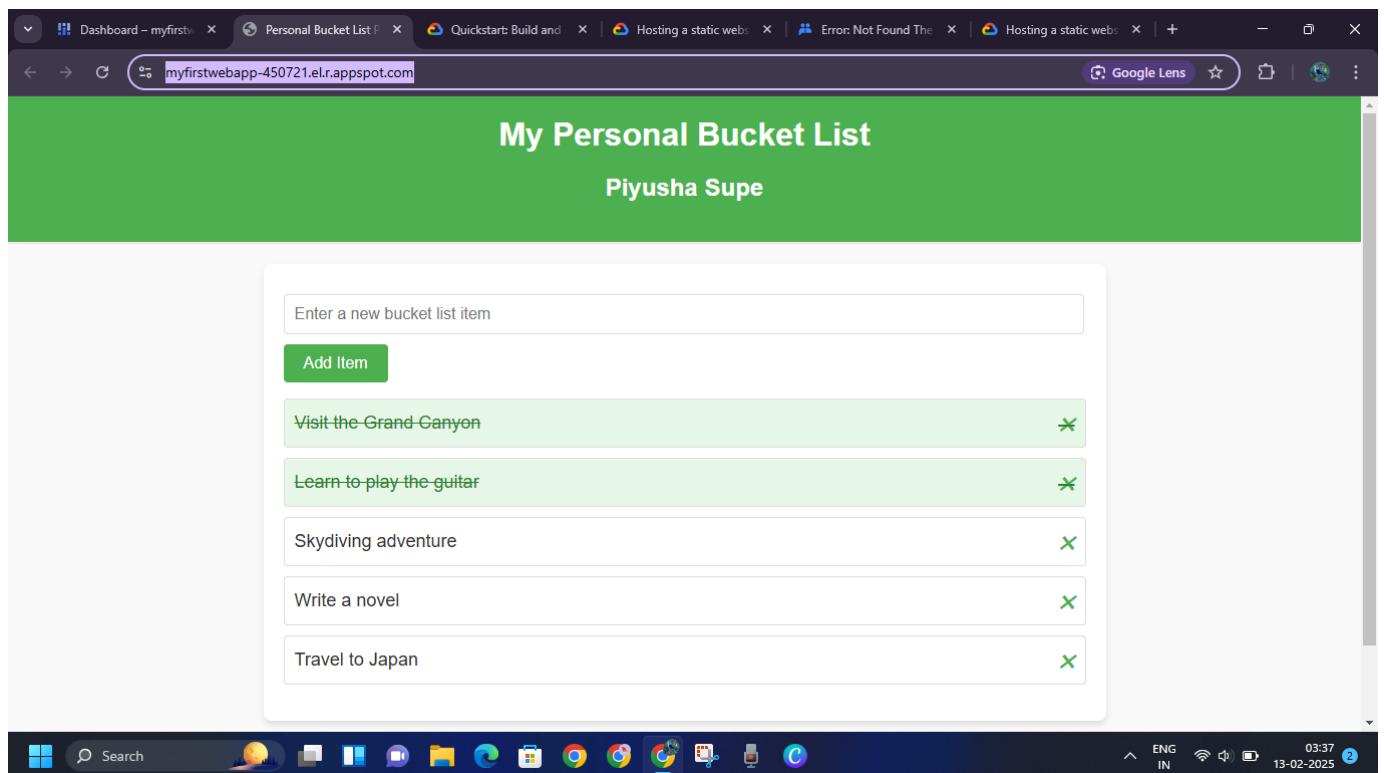
Do you want to continue (Y/n)? y
Beginning deployment of service [default]...
Uploading 0 files to Google Cloud Storage
100%
File upload done.
Updating service [default]...done.
Setting traffic split for service [default]...done.
Deployed service [default] to [https://myfirstwebapp-450721.el.r.appspot.com]

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
pihusupe@cloudshell:~/piyushawebapp (myfirstwebapp-450721)$ gcloud app browse
Did not detect your browser. Go to this link to view your app:
https://myfirstwebapp-450721.el.r.appspot.com
pihusupe@cloudshell:~/piyushawebapp (myfirstwebapp-450721)$

```

[9] Here is how a successfully hosted web app will look like



The screenshot shows a web browser window with the URL <https://myfirstwebapp-450721.el.r.appspot.com>. The page title is "My Personal Bucket List" and the subtitle is "Piyusha Supe". Below the title is a form with a text input field labeled "Enter a new bucket list item" and a green "Add Item" button. A list of items is displayed in a table-like format:

Bucket List Item	Remove
Visit the Grand Canyon	X
Learn to play the guitar	X
Skydiving adventure	X
Write a novel	X
Travel to Japan	X

Conclusion: Thus I have successfully configured a web app on Google app Engine.