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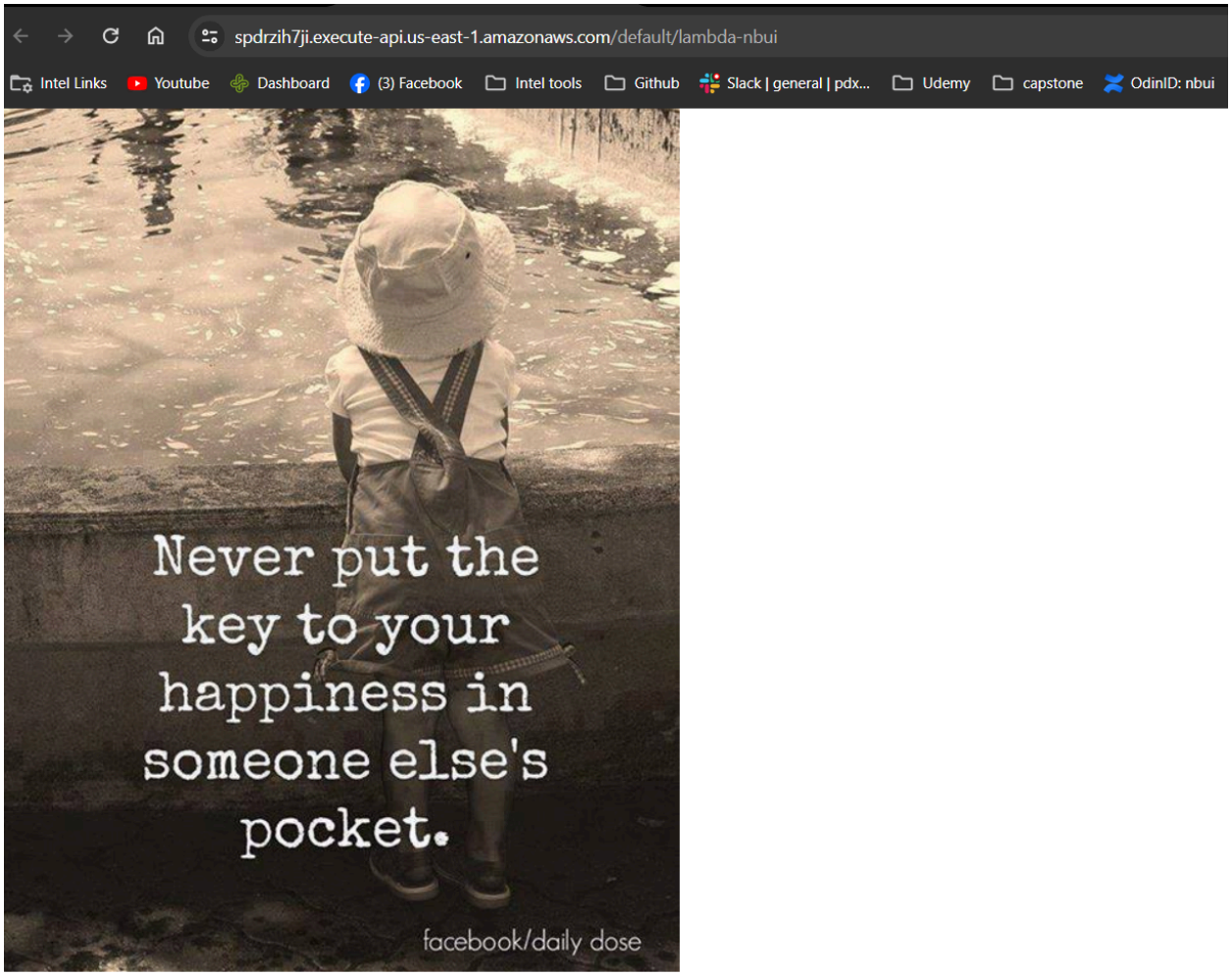
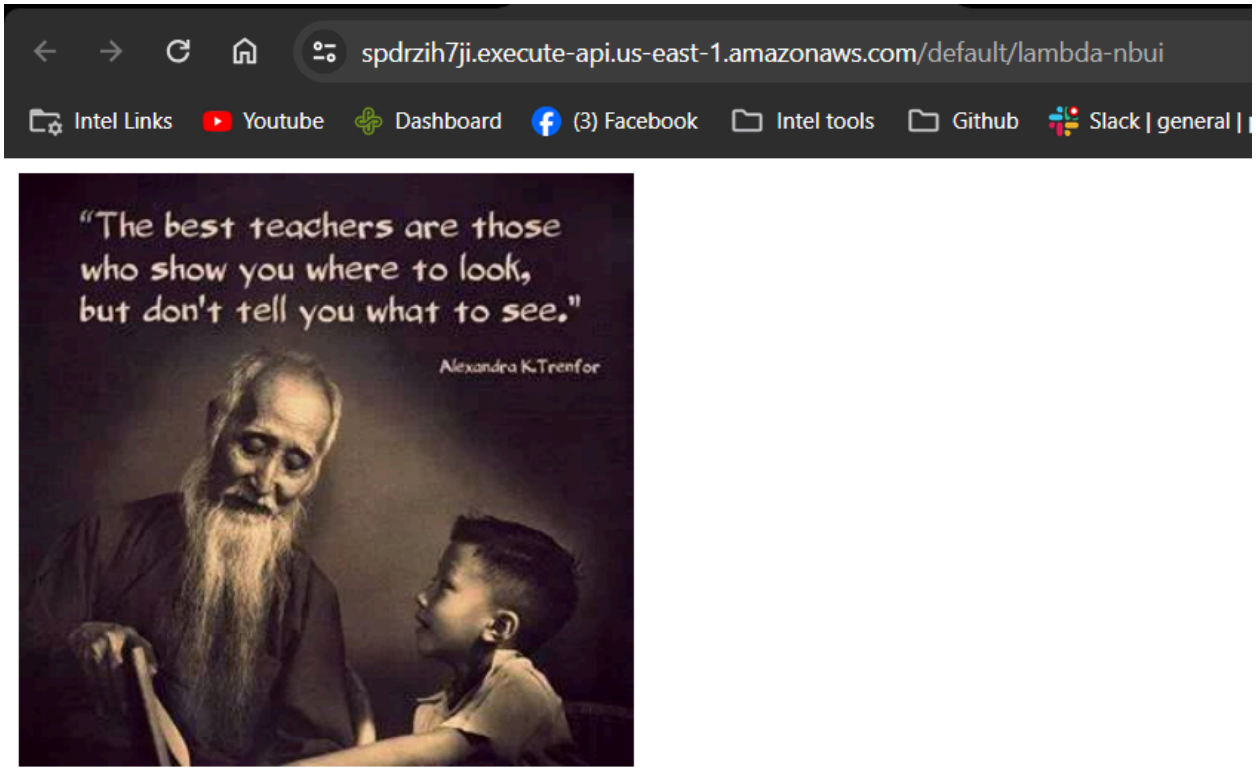
Lab 08.1a

4. Test code

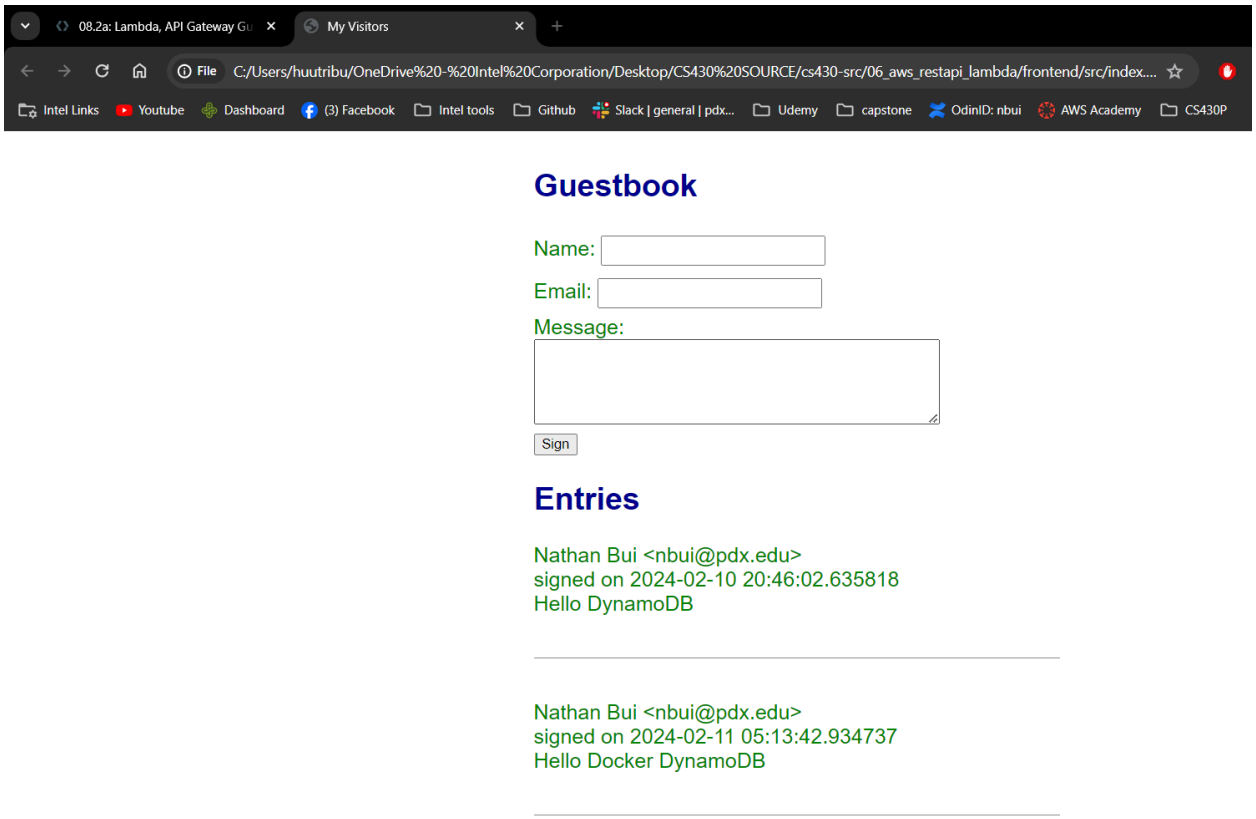




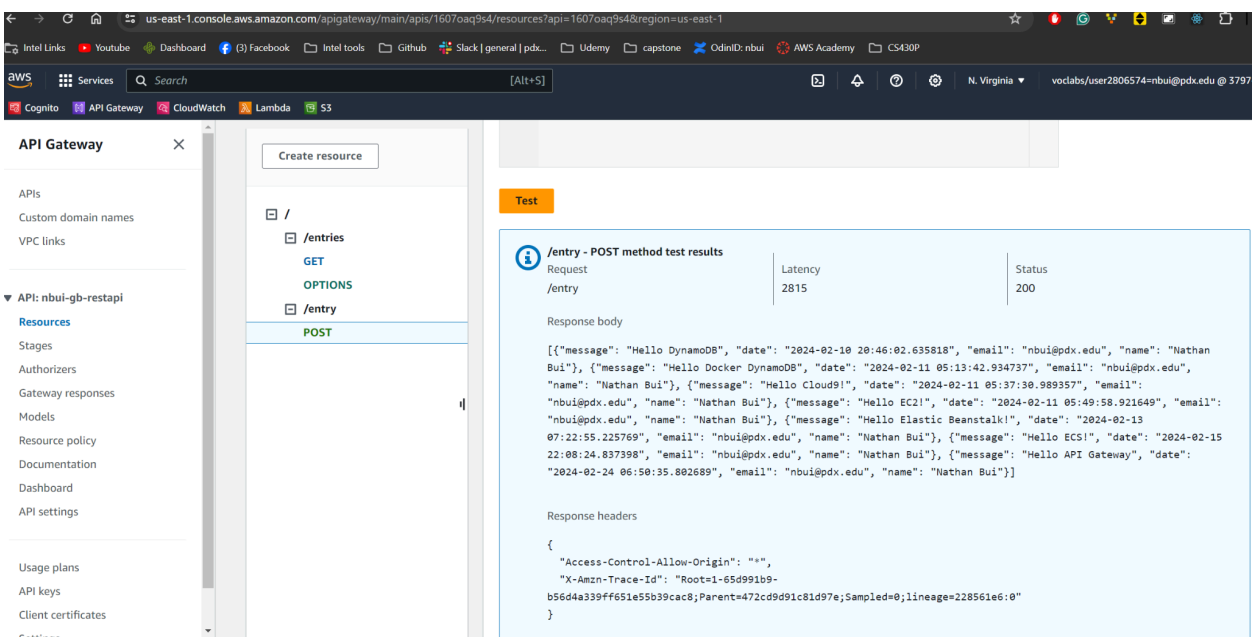
8. Test code

```
[cloudshell-user@ip-10-138-171-155 ~]$ curl https://vo4y8smaag.execute-api.us-east-1.amazonaws.com/default/gettime-nbui
{"currentTime": "2024-02-24 05:09:00.679976"}[cloudshell-user@ip-10-138-171-155 ~]$
[cloudshell-user@ip-10-138-171-155 ~]$
```

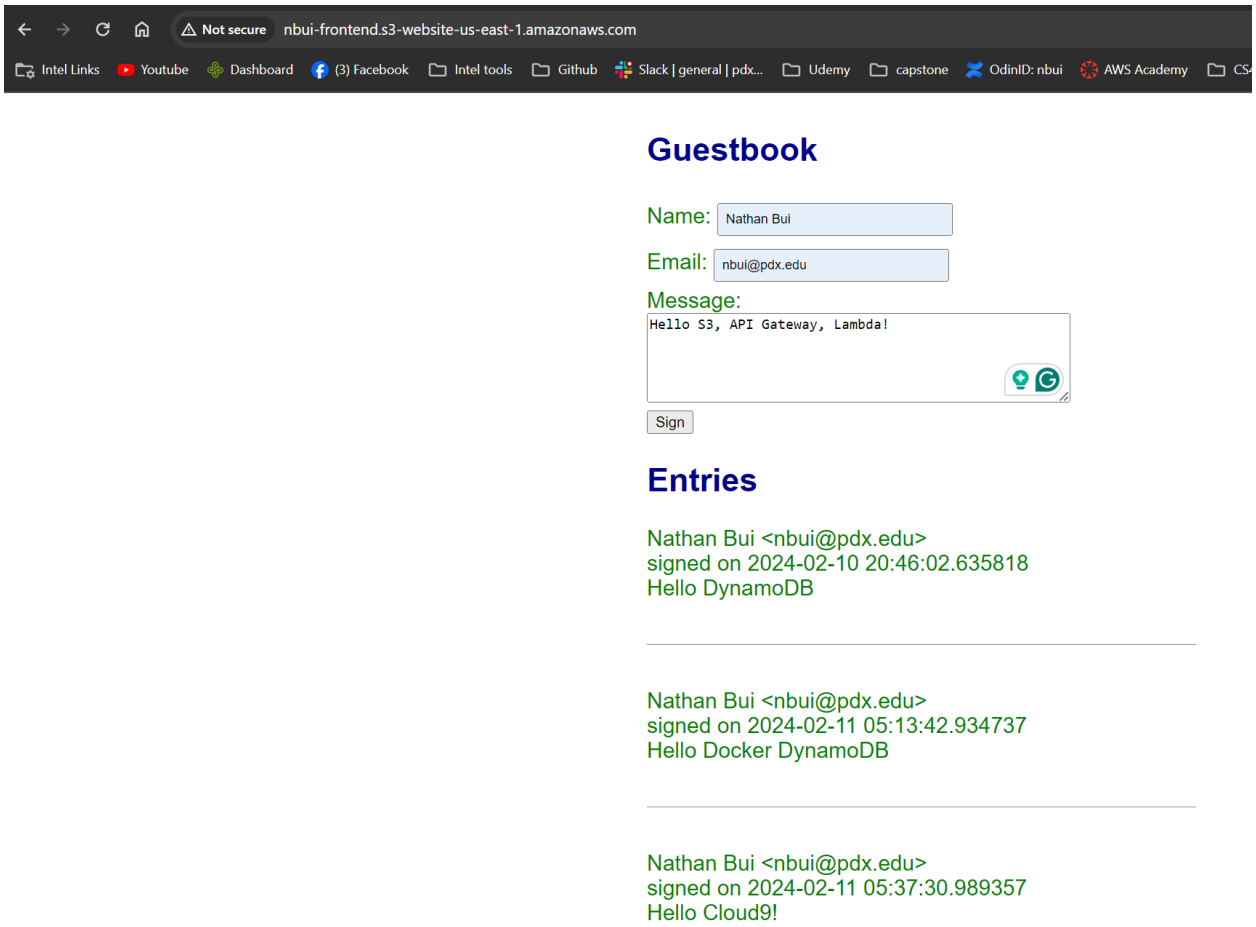
10. Deploy API to production and view entries



12. API endpoint for signing (2)



16. Configure and Deploy the Frontend



Lab 08.2g

10. Create the API Gateway

- Include the hostname for the API gateway in your lab notebook.
    - Gbapigw-62zpwafi.uc.gateway.dev

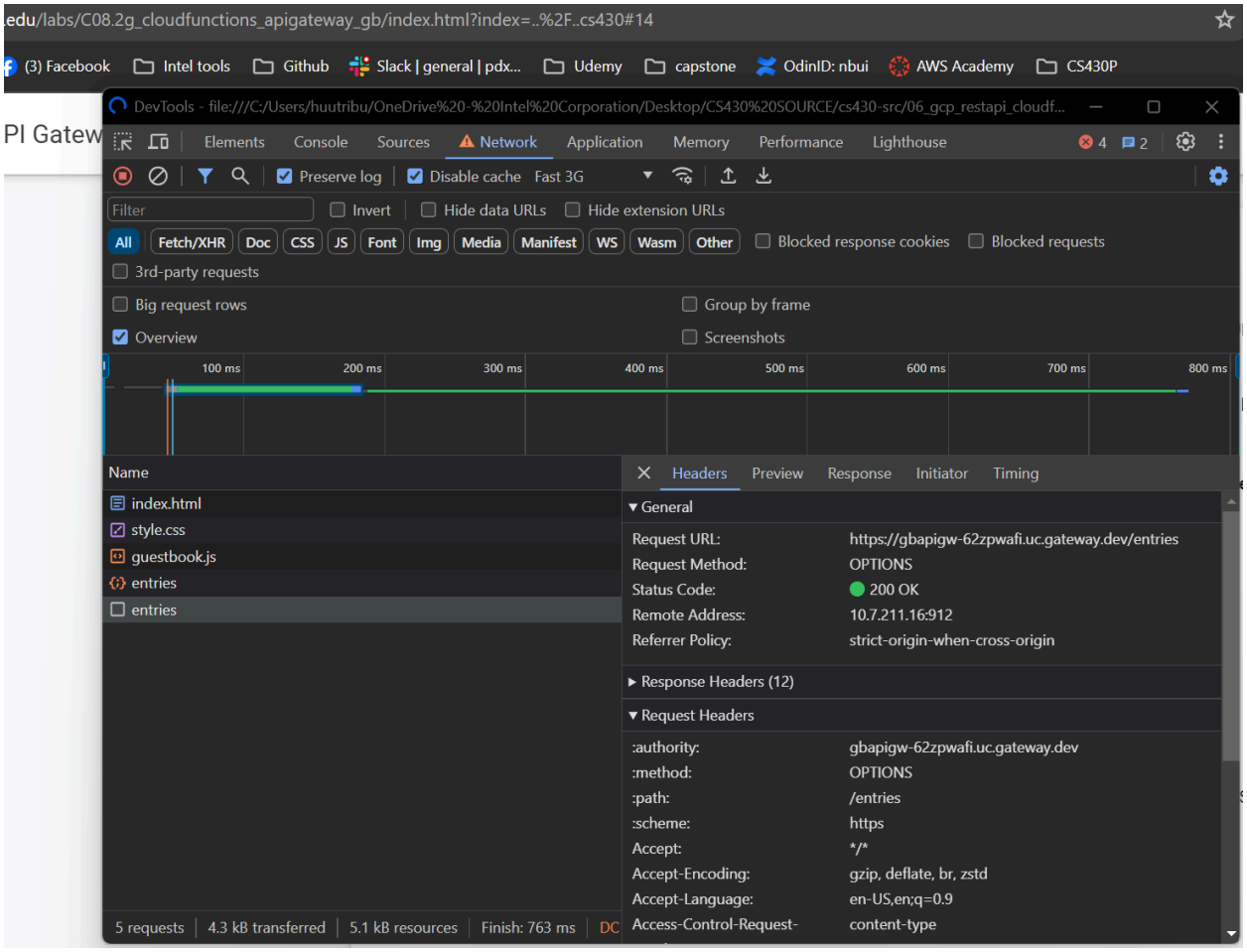
11. Test the API via Python Requests (GET)

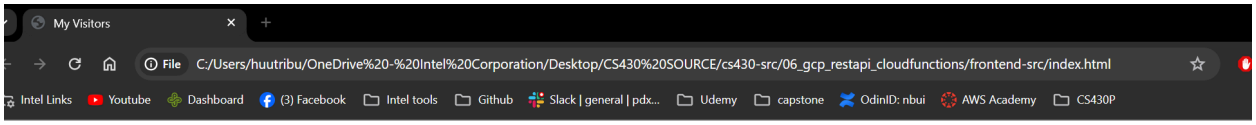
```
>>> for key, value in test[0].items():
...     print(f"{key}: {value}")
...
name: Nathan Bui
email: nbui@pdx.edu
date: 2024-02-11 07:26:03.253367+00:00
message: Hello Cloud Shell!
>>>
```

12. Test the API via Python Requests (POST)

```
>>> mydict = {'name': 'Nathan Bui', 'email': 'nbui@pdx.edu', 'message': 'testing lab 8.2g'}
>>> resp = requests.post('https://gbapigw-62zpwafi.uc.gateway.dev/entry', json=mydict)
>>> print(resp.status_code)
200
>>> print(resp.headers)
{'content-type': 'application/json', 'access-control-allow-origin': '*', 'function-execution-id': '86su1exgyen1', 'x-cloud-trace-context': 'd7c6049f123494cad886dc4e7c867eec;o
=1', 'alt-svc': 'h3=":443"; ma=2592000,h3-29=":443"; ma=2592000', 'Date': 'Sun, 25 Feb 2024 06:21:04 GMT', 'Server': 'Google Frontend', 'Content-Length': '1133'}
>>> print(resp.text)
[{"name": "Nathan Bui", "email": "nbui@pdx.edu", "date": "2024-02-11 07:26:03.253367+00:00", "message": "Hello Cloud Shell!"}, {"name": "Nathan Bui", "email": "nbui@pdx.edu",
 "date": "2024-02-11 07:13:05.467421+00:00", "message": "Hello Datastore"}, {"name": "Nathan Bui", "email": "nbui@pdx.edu", "date": "2024-02-18 06:26:02.156269+00:00", "messa
ge": "Hello Cloud Build!"}, {"name": "Nathan Bui", "email": "nbui@pdx.edu", "date": "2024-02-15 22:40:42.168459+00:00", "message": "Hello Cloud Run!"}, {"name": "Nathan Bui",
 "email": "nbui@pdx.edu", "date": "2024-02-18 06:04:09.777540+00:00", "message": "Hello Kubernetes!"}, {"name": "Nathan Bui", "email": "nbui@pdx.edu", "date": "2024-02-13 07:
38:49.332539+00:00", "message": "Hello App Engine!"}, {"name": "Nathan Bui", "email": "nbui@pdx.edu", "date": "2024-02-25 06:21:04.313561+00:00", "message": "testing lab 8.2g
"}, {"name": "Nathan Bui", "email": "nbui@pdx.edu", "date": "2024-02-11 07:20:13.845665+00:00", "message": "Hello Docker Datastore!"}, {"name": "Nathan Bui", "email": "nbui@p
dx.edu", "date": "2024-02-11 07:32:05.814840+00:00", "message": "Hello Compute Engine!"}]
>>>
```

15. Version #1: Local file system





Guestbook

Name: Nathan Bui

Email: nbui@pdx.edu

Message:

```
Hello API Gateway from local SPA!
```

Sign

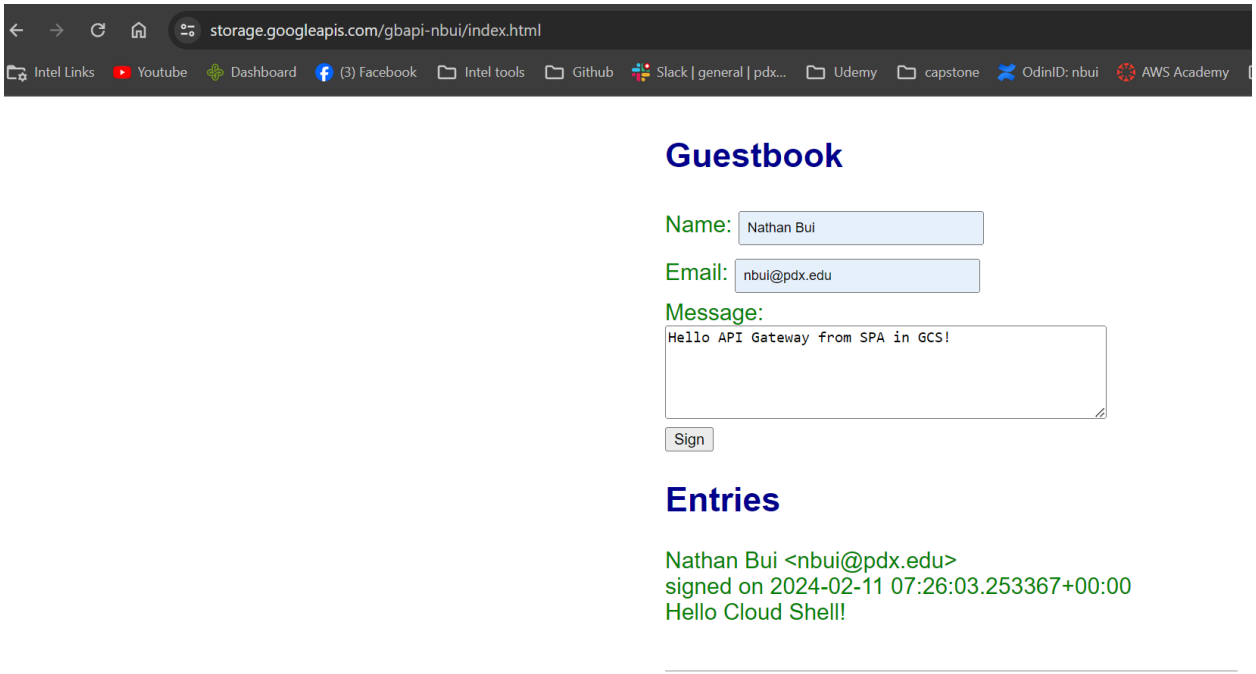
Entries

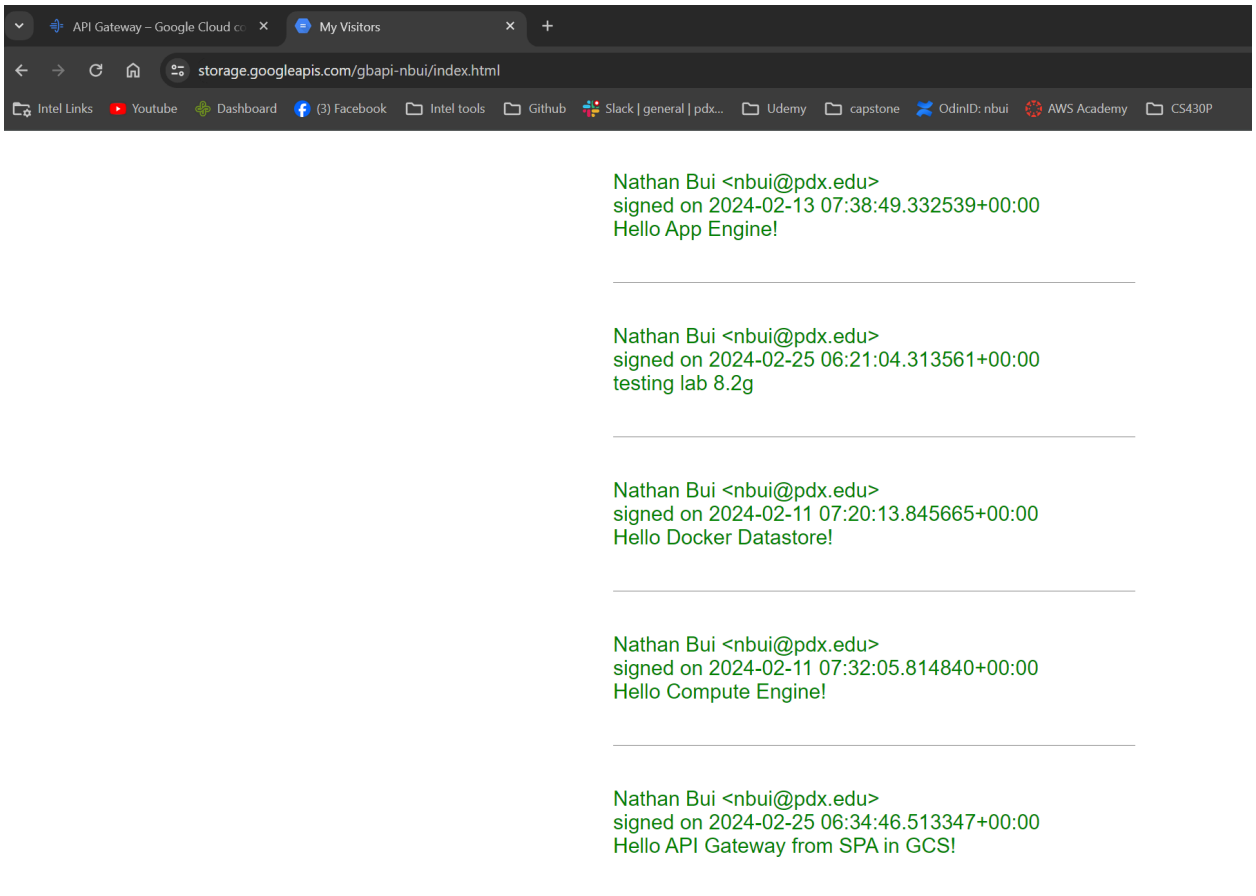
Nathan Bui <nbui@pdx.edu>
signed on 2024-02-11 07:26:03.253367+00:00
Hello Cloud Shell!

Nathan Bui <nbui@pdx.edu>
signed on 2024-02-25 06:29:45.495305+00:00
Hello API Gateway from local SPA!

---

16. Version #2: Google Cloud Storage bucket





Lab 08.3g

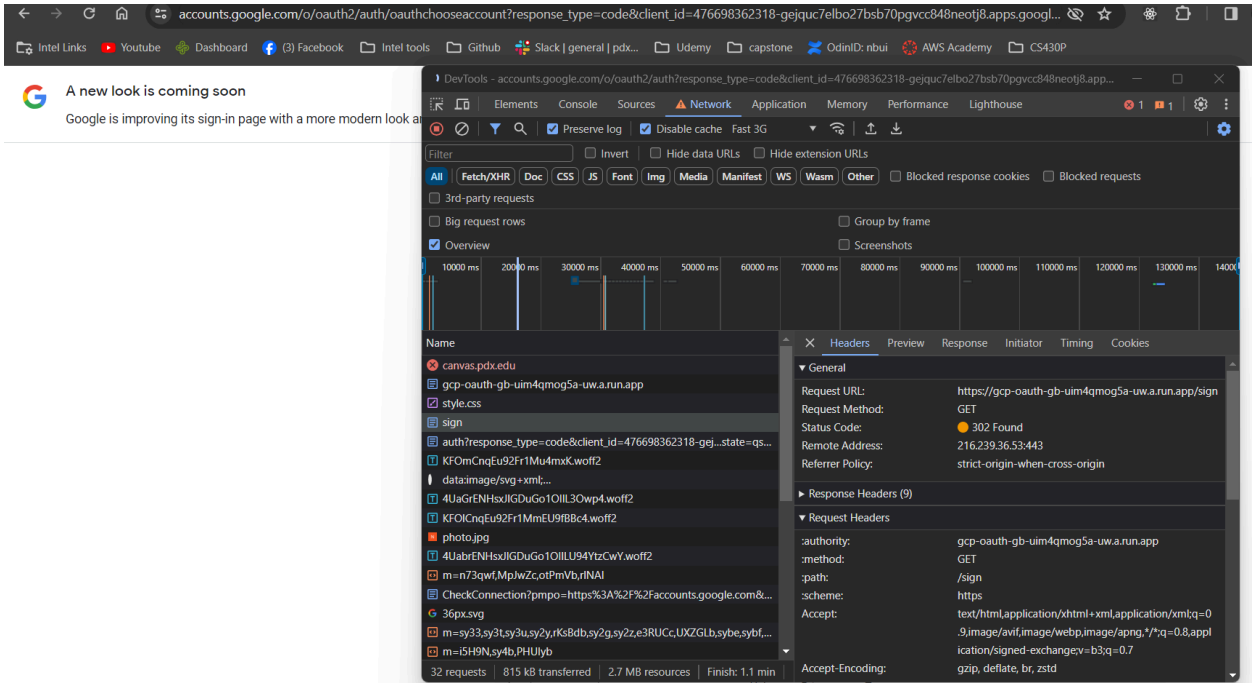
https://gcp-oauth-gb-uim4qmog5a-uw.a.run.app/callback

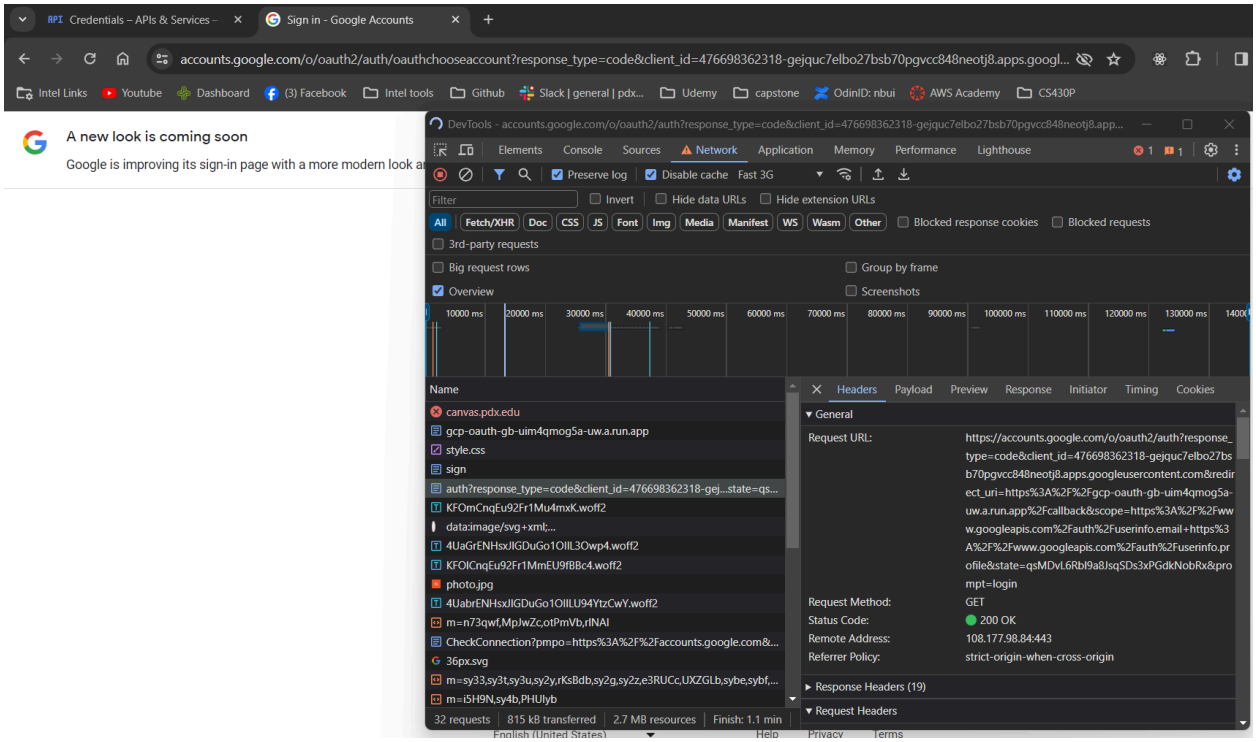
ID: 476698362318-gejquc7elbo27bsb70pgvcc848neotj8.apps.googleusercontent.com

SECRET: 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

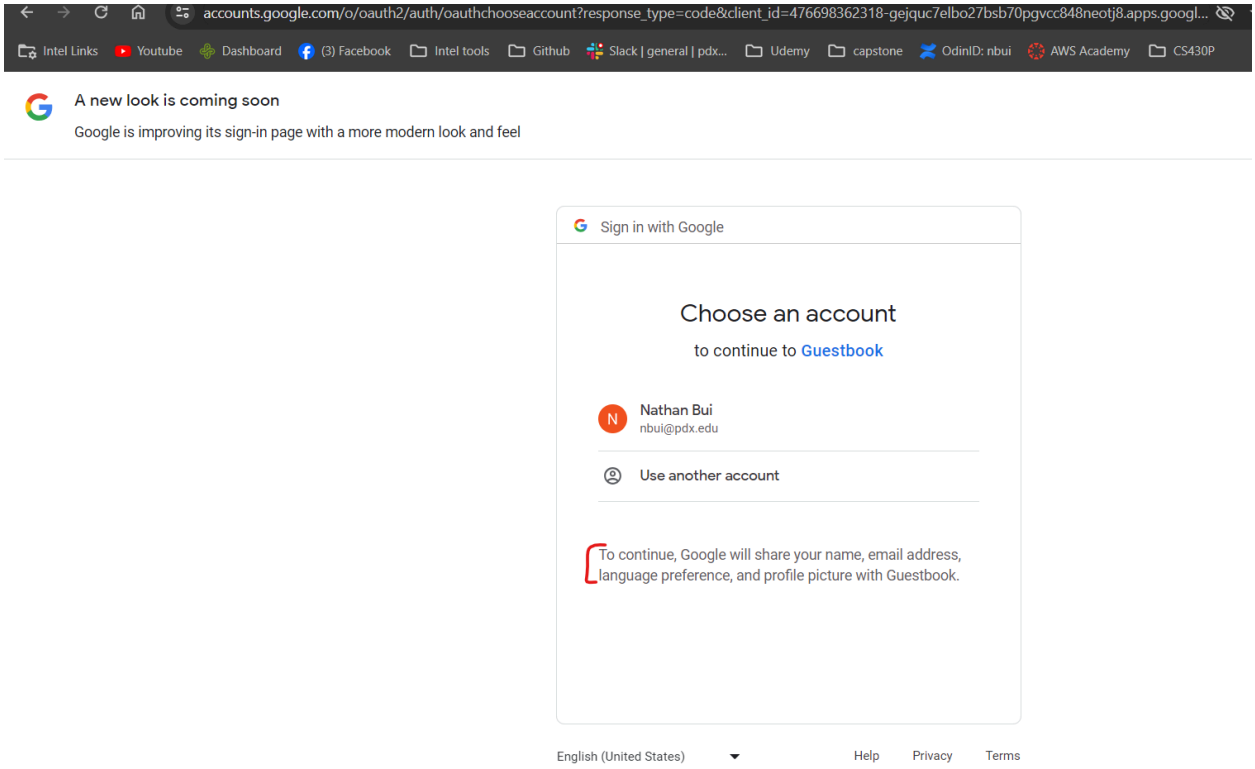
14. Visit the application

- Take a screenshot of the Headers that includes the URL and the returned HTTP status code for the first two requests for your lab notebook.

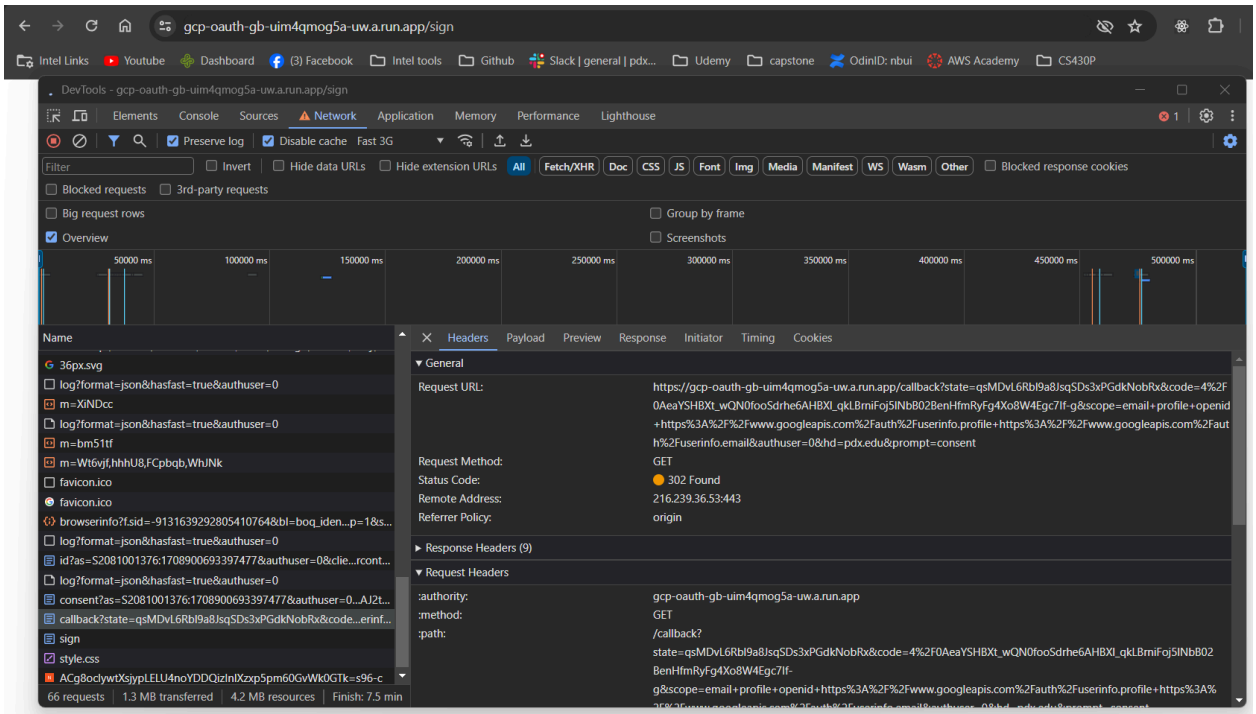




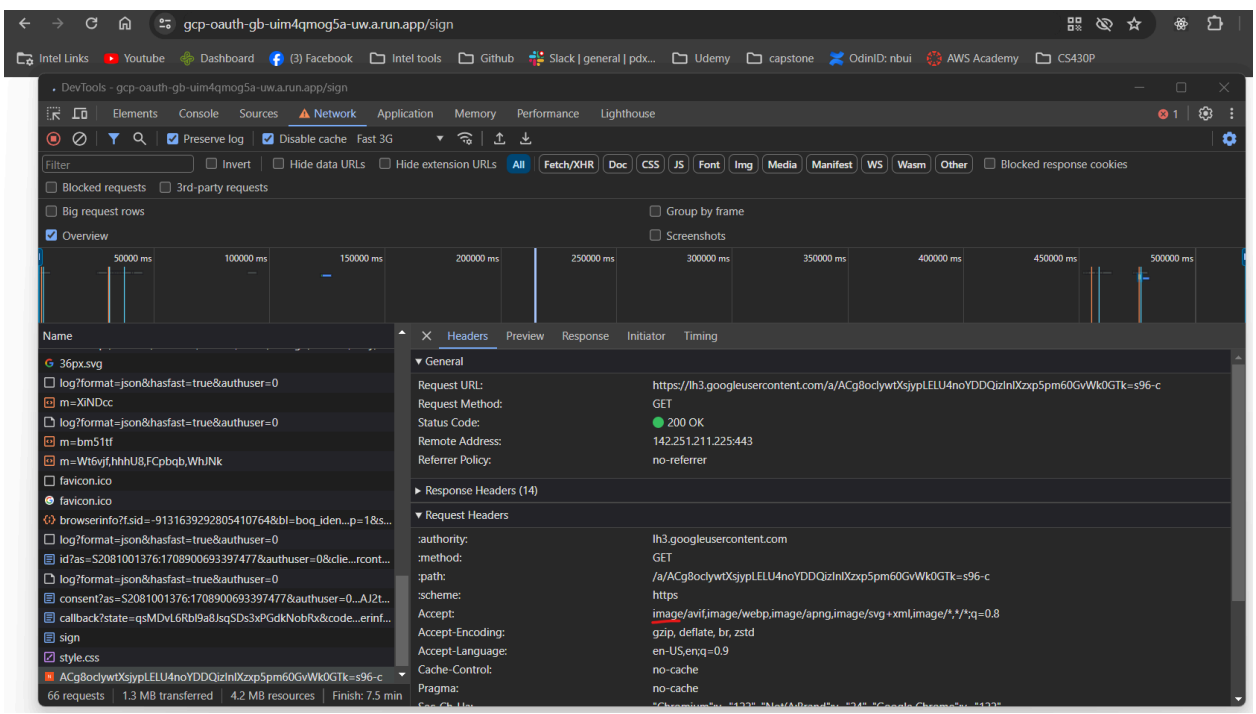
- Based on the description of the source code, what lines of code in our application are responsible for the second request shown?
    - Sign.py line 18-22 (calling Oauth2Session)
- Take a screenshot of the permissions you (as a user) are granting the Guestbook access to.



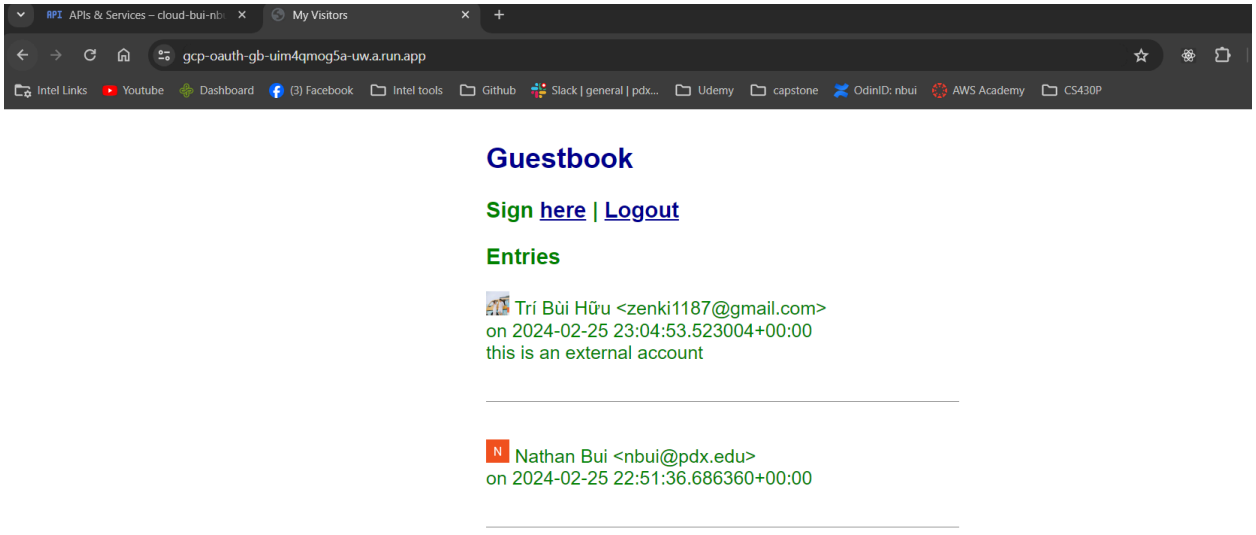
- Take a screenshot of the Headers that includes the entire Callback URL and its returned HTTP status code. What is the URI for the Location that the User sent to by the Callback?
    - https://gcp-oauth-gb-uim4qmog5a-uw.a.run.app/sign



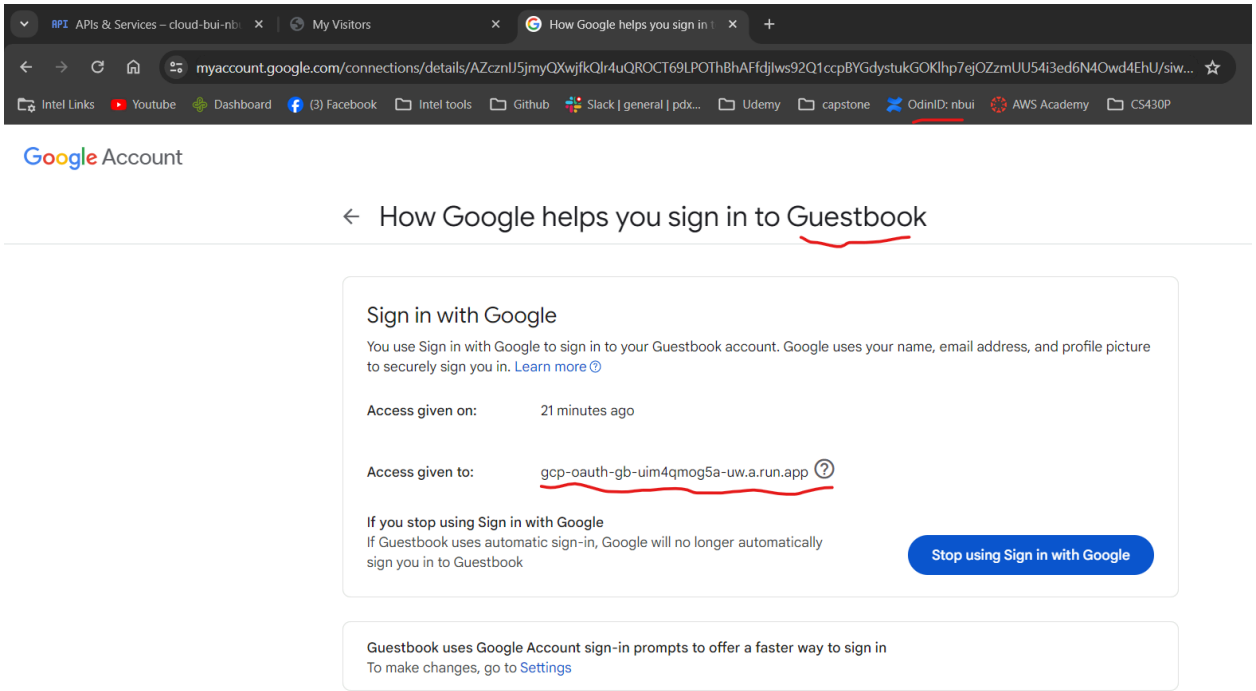
- Find the request within Developer Tools that fetches the embedded image and take a screenshot of its URL.



15. Secrets manager deployment



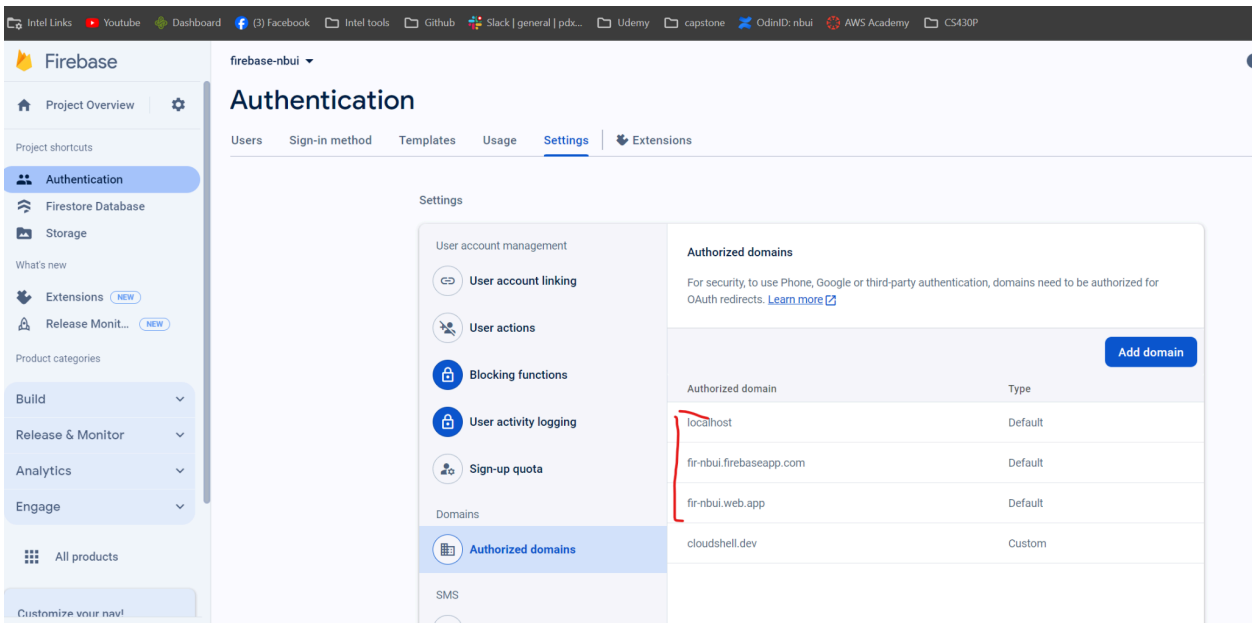
16. Removing access



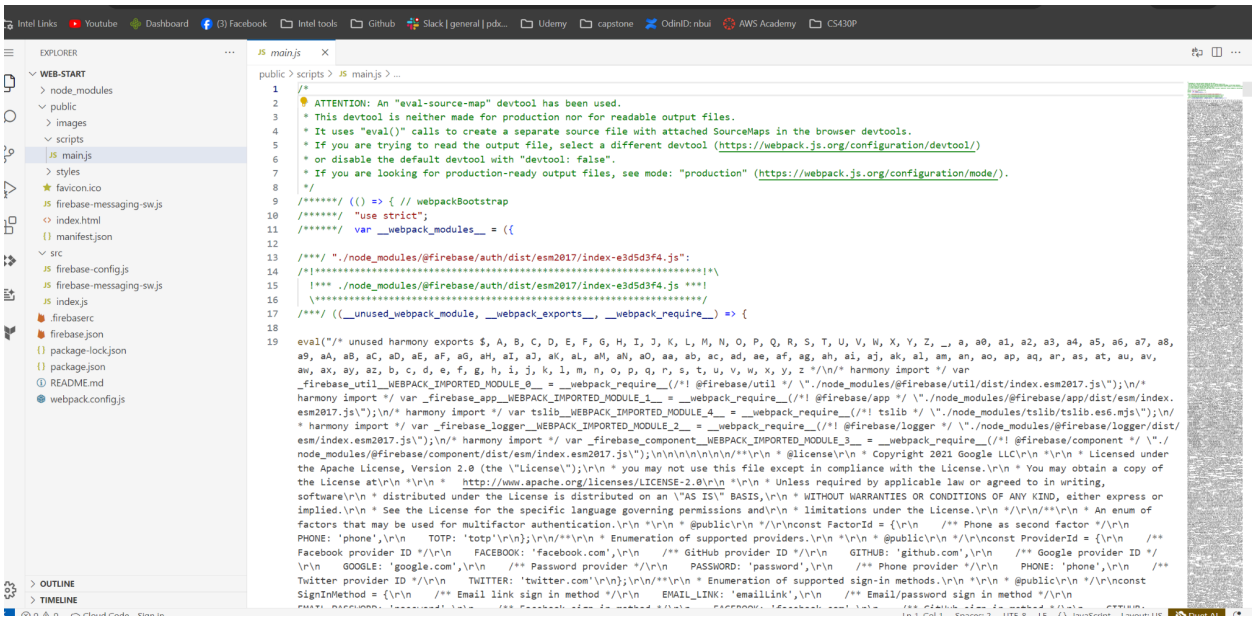
Lab 08.4g

4. Authentication setup

- What other domains are given access to this Firebase project by default?



8. Bundling with Webpack



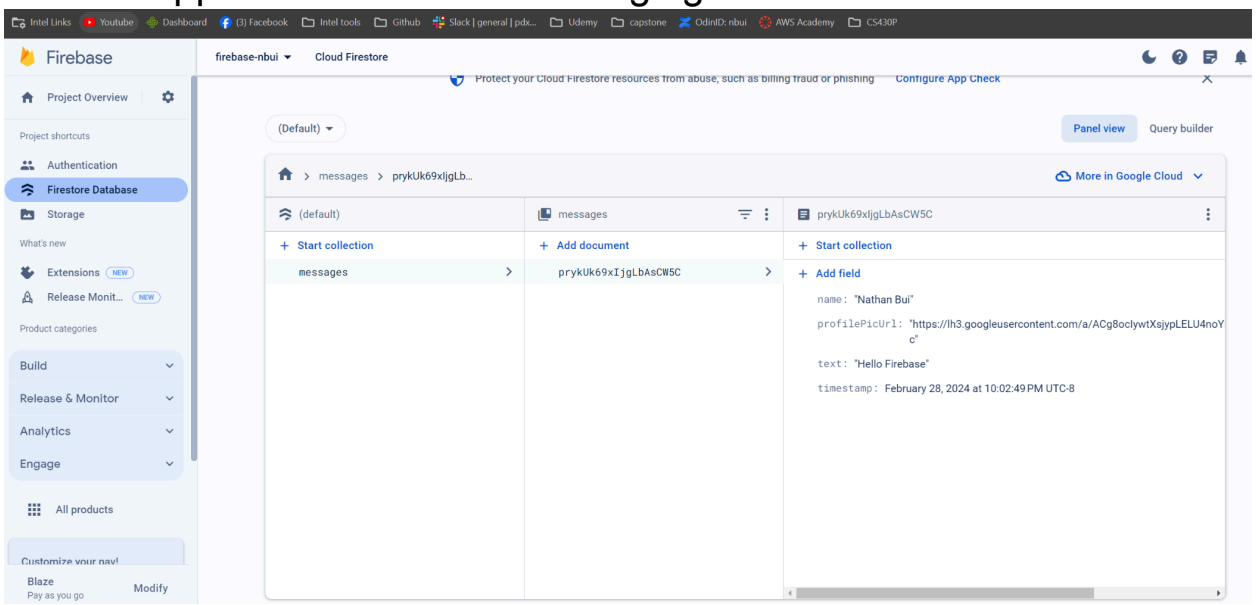
12. Add authentication

- What missing functions deal with user authentication?
  - signIn()
  - signOutUser()
- What missing functions deal with sending and receiving messages?
  - loadMessages()
  - onMessageFormSubmit()

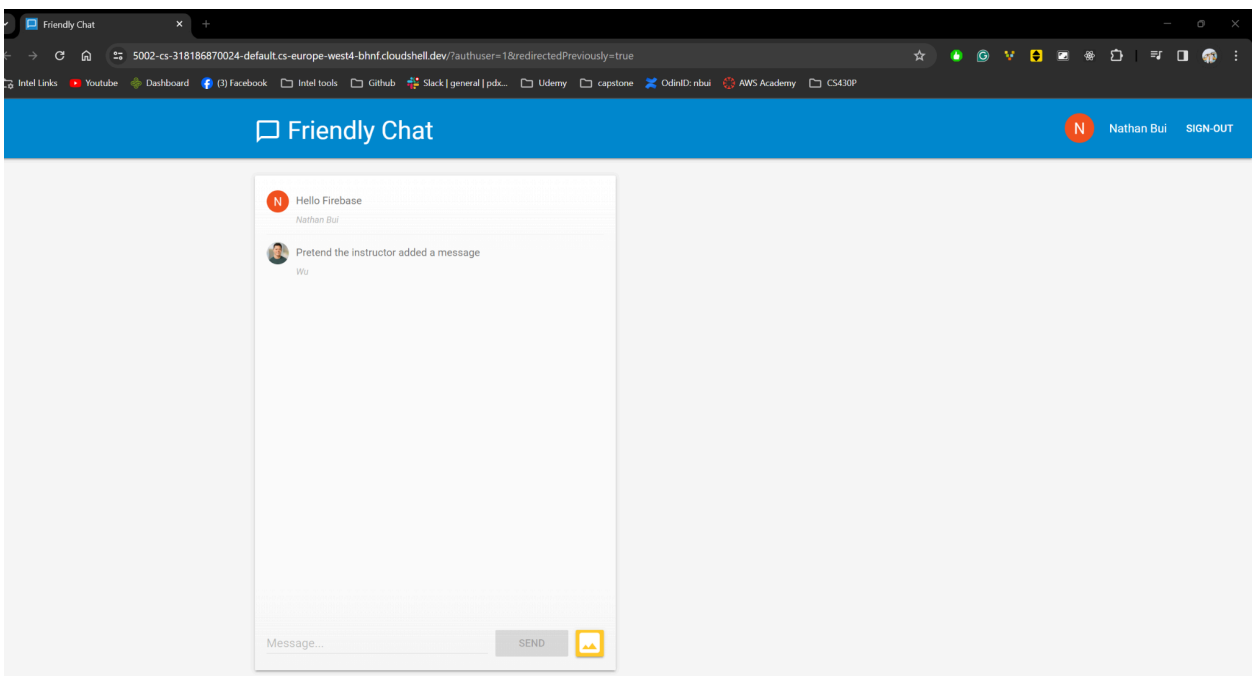
13. Update UI

- What are the names of the elements that are hidden when the user is signed out?
  - `userNameElement`
  - `userPicElement`
  - `signOutButtonElement`
- What is the name of the element that is not hidden when the user is signed out?
  - `signInButtonElement`

16. Test application with text messaging



17. Manual message insertion

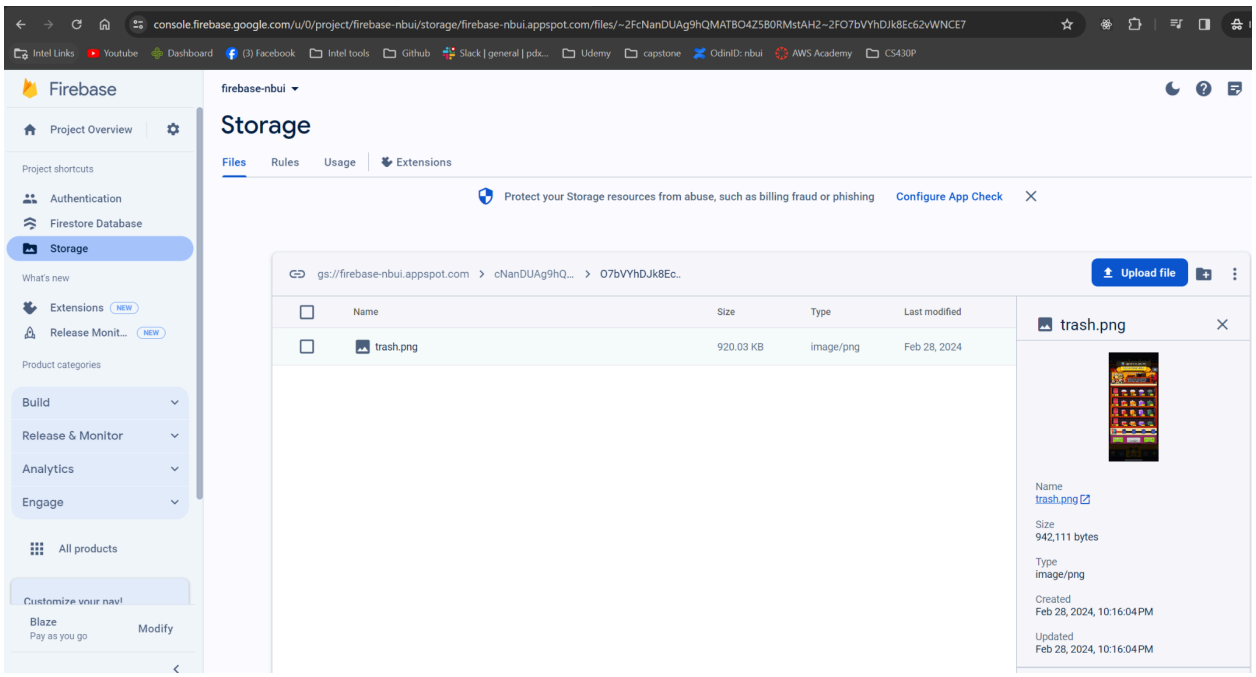


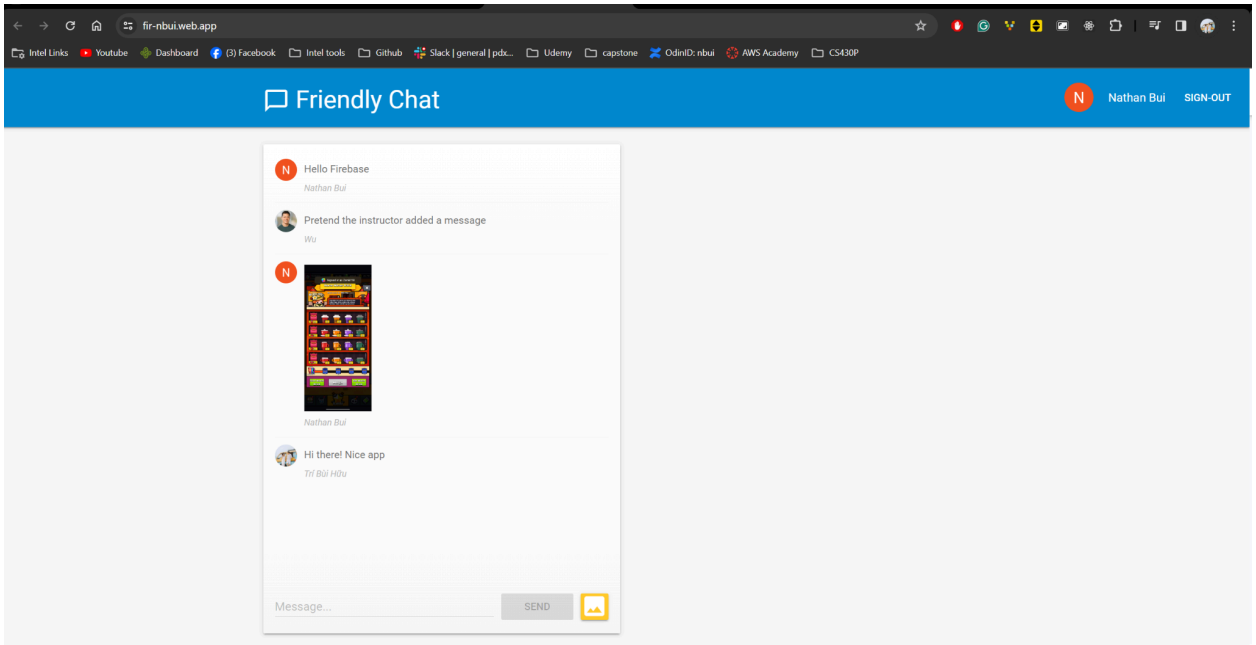
18. Add image messaging

- What is the URL of the image that is first shown in the UI as the message is loading?
  - `https://www.google.com/images/spin-32.gif?a`

19. Test application with image messaging

- How do the fields in an image document differ from that of the text document?
    - The image document doesn't have the text field. However, it has 2 additional fields, such as storageUri and imageUrl
- What URL and storage location can the image be found at?
    - https://firebasestorage.googleapis.com/v0/b/firebase-nbui.appspot.com/o/cNanDUAg9hQMATBO4Z5B0RMstAH2%2FO7bVYhDJk8Ec62vWNCE7%2Ftrash.png?alt=media&token=6a733d65-0174-4f50-887a-b509db0d4689
    - Firebase storage
- Take a screenshot of the image in the storage bucket for your lab notebook.



20. Deploy application

- What directory is the application going to be served from?
  - `web-start/public`