Lab Notebook – Week 8

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Add authentication

What missing functions deal with user authentication?

What missing functions deal with sending and receiving messages?

Update UI

What are the names of the elements that are hidden when the user is signed out?

What is the name of the element that is not hidden when the user is signed out?

Test application with text messaging

Manual message insertion

Add image message

What is the url of the image that is first shown in the UI as the message is loading?

Test application with image messaging

How do the fields in an image document differ from that of the text document?

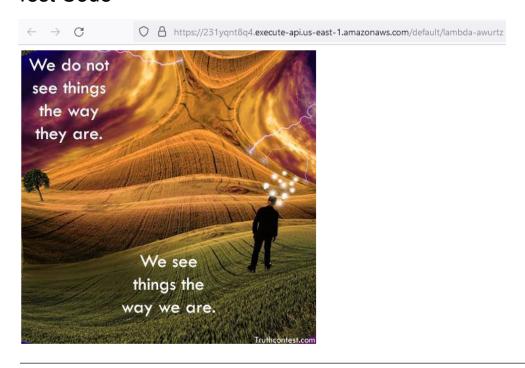
What URL and storage location can the image be found at?

Deploy application

What directory is the application going to be served from?

08.1a: API Gateway

Test Code





```
Last login: Tue Oct 10 01:57:34 2023 from 35.235.240.144

awurtz@course-vm:~$ curl https://612bcbncpd.execute-api.us-east-1.amazonaws.com/default/gett
ime-awurtz

{"currentTime": "2023-11-14 21:10:27.056368"}awurtz@course-vm:~$
```

08.2a: Lambda, API Gateway Guestbook

Deploy API to production and view entries

file:///C:/Users/addis/cs430-src/06_aws_restapi_lambda/frontend/src/index.html 🗘

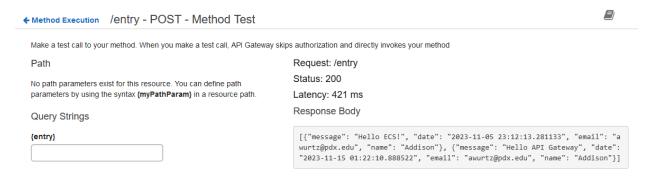
Guestbook

Name:			
Email:			
Messa	ge:		
			_
Sign			

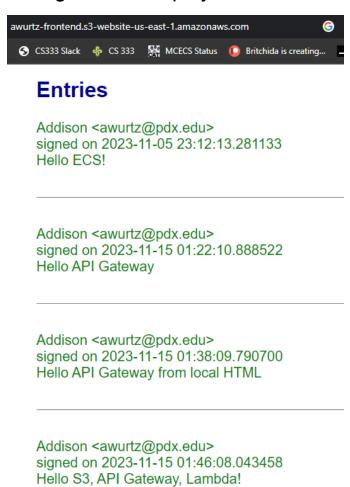
Entries

Addison <awurtz@pdx.edu> signed on 2023-11-05 23:12:13.281133 Hello ECS!

API endpoint for signing



Configure and Deploy the Frontend



08.2g: Cloud Functions API Gateway Guestbook

https://us-central1-cloud-wurtz-awurtz.cloudfunctions.net/entries

https://us-central1-cloud-wurtz-awurtz.cloudfunctions.net/entry

Create the API Gateway

```
awurtz@cloudshell:~/cs430-src/06 gdp_restapi_cloudfunctions (cloud-wurtz-awurtz)$ gcloud api-gateway gateways describe gbapigw --location=us-central1 apiConfig; projects/254826337631/locations/global/apis/gbapi/configs/gbapiconfig createTime: '2023-11-16T19:42:39.7556133642' defaultHostname: gbapigw-392dOsin.uc.gateway.dev displayMame: gbapigw --locations/us-central1/gateways/gbapigw name: projects/cloud-wurtz-awurtz/locations/us-central1/gateways/gbapigw state: ACTIVE updateTime: '2023-11-16T19:46:18.3871125122' awurtz@cloudshell:~/cs430-src/06_gdp_restapi_cloudfunctions (cloud-wurtz-awurtz)$
```

Hostname: gbapigw-392d0sin.uc.gateway.dev

Test the API via Python Requests (GET)

```
>>> for each in resp_json: print(each['name'] + '\n' + each['email'] + '\n' + each['date'] + '\n' + each['message'] + '\n')
...
Addison
awurtz@pdx.edu
2023-11-05 23:51:36.734893+00:00
Hello Cloud Run!

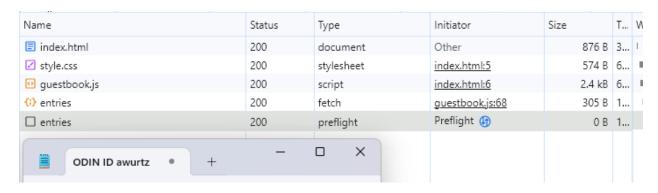
Addison
awurtz@pdx.edu
2023-11-03 22:25:33.192990+00:00
Hello App Engine!

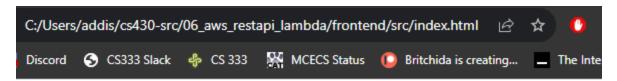
Addison
awurtz@pdx.edu
2023-11-13 03:25:00.004375+00:00
Hello Cloud Build!

Addison
awurtz@pdx.edu
2023-11-13 02:49:00.581541+00:00
Hello Kubernetes!
```

Test the API via Python Requests (POST)

Version #1: Local File System

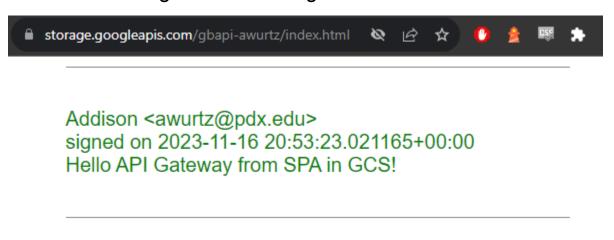




Entries

Addison <awurtz@pdx.edu> signed on 2023-11-16 20:47:28.928198+00:00 Hello API Gateway from local SPA!

Version #2: Google Cloud Storage bucket



08.3g: OAuth2 Guestbook

https://gcp-oauth-gb-jpg37fqnga-uw.a.run.app

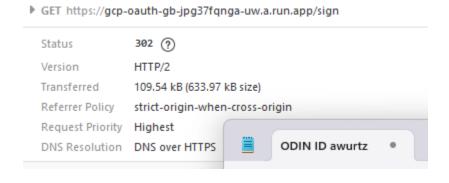
Client id:

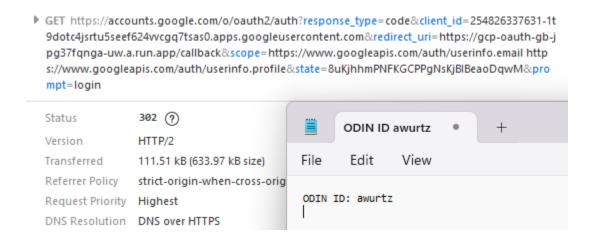
254826337631-1t9dotc4jsrtu5seef624vvcgq7tsas0.apps.googleusercontent.com

Client secret:

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

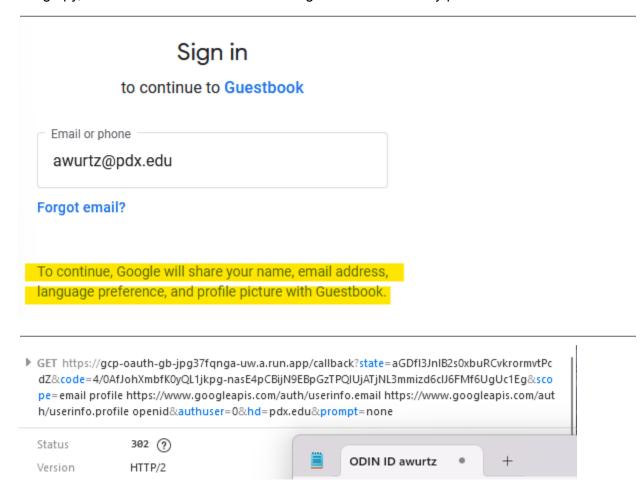
Visit the application





Based on the description of the source code, what lines of code in our application are responsible for the second request shown?

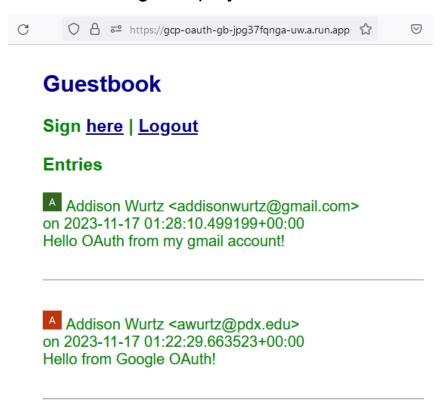
In sign.py, lines 15-28 redirects the user to sign in with the identity provider.



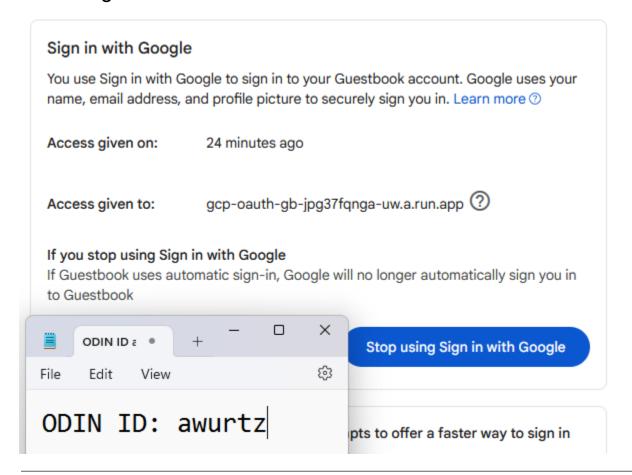
https://gcp-oauth-gb-jpg37fqnga-uw.a.run.app/callback?state=ILWC8ZuYdldJIziXIrc8NGg14 9WX8i&code=4/0AfJohXmn5GTdqN9RkJSGWhWI9Rgf4yEnQ5NIRrjp_PGaOGMAvDB9oH hD3brL_udGyW0ahw&scope=email profile https://www.googleapis.com/auth/userinfo.email https://www.googleapis.com/auth/userinfo.profile openid&authuser=0&hd=pdx.edu&prompt=consent



Secrets manager deployment



Removing Access



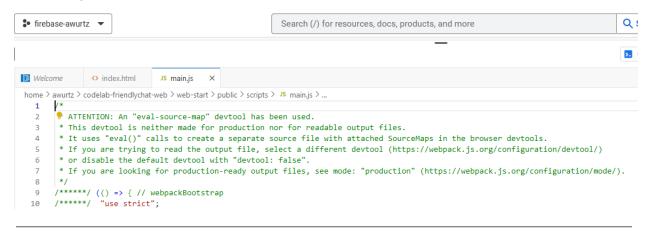
08.4g: Firebase

Authentication setup

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

Localhost, fir-awurtz.firebaseapp.com, and fir-awurtz.web.app

Building with Webpack



Add authentication

What missing functions deal with user authentication?

signIn(), signOutUser(), initFirebaseAuth(), and isUserSignedIn()

What missing functions deal with sending and receiving messages?

saveMessage(), loadMessages(), and saveImageMessage()

Update UI

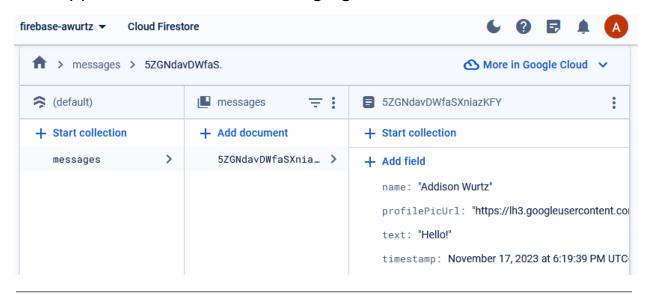
What are the names of the elements that are hidden when the user is signed out?

 $user Name Element, \ user Pic Element, \ sign Out Button Element$

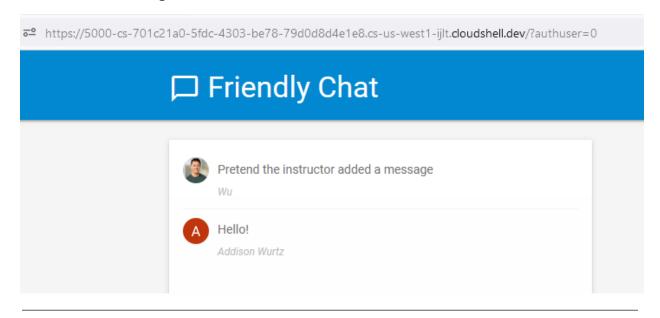
What is the name of the element that is not hidden when the user is signed out?

signInButtonElement

Test application with text messaging



Manual message insertion



Add image message

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

Test application with image messaging

How do the fields in an image document differ from that of the text document?

There is an imageUrl and storage Uri field, and there is no text field.

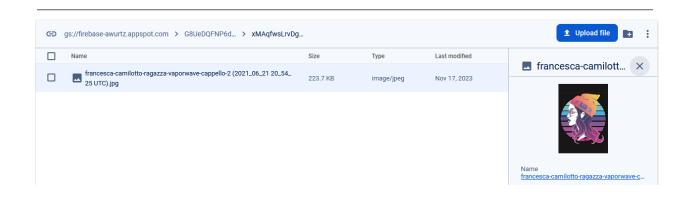
What URL and storage location can the image be found at?

ImageUrl:

https://firebasestorage.googleapis.com/v0/b/firebase-awurtz.appspot.com/o/G8UeDQFNP6dTA8 S8Ab59LPjqlkK2%2FxMAqfwsLrvDgLMv83o58%2Ffrancesca-camilotto-ragazza-vaporwave-ca ppello-2%20(2021_06_21%2020_54_25%20UTC).jpg?alt=media&token=4c05f5e7-3ae7-4f52-a 8bd-4f3389671710

storageUri:

G8UeDQFNP6dTA8S8Ab59LPjqlkK2/xMAqfwsLrvDgLMv83o58/francesca-camilotto-ragazza-va porwave-cappello-2 (2021_06_21 20_54_25 UTC).jpg



Deploy application

What directory is the application going to be served from? ./public

