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CS 530
Lab Week 8

1.

The screenshot shows the Chrome DevTools Network tab with the 'Headers' sub-tab selected. The request is a GET to `http://localhost:8000/sign`. The status is 200 OK. The response headers are expanded, showing `Connection: close`, `Content-Length: 771`, `Content-Type: text/html; charset=utf-8`, `Date: Sun, 20 Nov 2022 21:36:09 GMT`, `Server: Werkzeug/2.2.2 Python/3.8.10`, and `Vary: Cookie`. The request headers are also expanded, showing `Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8`.

| Header | Value |
|---|---|
| Status | 200 OK |
| Version | HTTP/1.1 |
| Transferred | 959 B (771 B size) |
| Referrer Policy | strict-origin-when-cross-origin |
| Request Priority | Highest |
| Response Headers (188 B) | |
| Connection | close |
| Content-Length | 771 |
| Content-Type | text/html; charset=utf-8 |
| Date | Sun, 20 Nov 2022 21:36:09 GMT |
| Server | Werkzeug/2.2.2 Python/3.8.10 |
| Vary | Cookie |
| Request Headers (1.766 KB) | |
| Accept | text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8 |

2.

The screenshot shows the Chrome DevTools Network tab with the 'Headers' sub-tab selected. The request is a GET to `https://lh3.googleusercontent.com/a/ALm5wu1TD6kaSar0rmzoP3viKrWs4pvq6WQxlG0-i4EN=s96-c`. The status is 403 Forbidden. The response headers are expanded, showing `alt-svc: h3=":443"; ma=2592000,h3-29=":443"; ma=2592000,h3-Q050=":443"; ma=2592000,h3-Q046=":443"; ma=2592000,h3-Q043=":443"; ma=2592000,quic=":443"; ma=2592000; v="46,43"`, `cache-control: private`, `content-encoding: gzip`, `content-length: 849`, `content-type: text/html; charset=UTF-8`, `date: Sun, 20 Nov 2022 21:36:11 GMT`, and `server: fife`.

| Header | Value |
|---|--|
| Status | 403 Forbidden |
| Version | HTTP/2 |
| Transferred | 1.25 KB (2.14 KB size) |
| Referrer Policy | strict-origin-when-cross-origin |
| Request Priority | Low |
| Response Headers (431 B) | |
| alt-svc | h3=":443"; ma=2592000,h3-29=":443"; ma=2592000,h3-Q050=":443"; ma=2592000,h3-Q046=":443"; ma=2592000,h3-Q043=":443"; ma=2592000,quic=":443"; ma=2592000; v="46,43" |
| cache-control | private |
| content-encoding | gzip |
| content-length | 849 |
| content-type | text/html; charset=UTF-8 |
| date | Sun, 20 Nov 2022 21:36:11 GMT |
| server | fife |

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

The second request seems to be for the user profile picture, which doesn't exist. This is requested upon authentication, which is why it is the second request, and returns a 403 code, since there is no photo at the location requested.

4.

```
▶ GET http://localhost:8000/callback?state=sHnvcCWgniysl1MzFH1urdtjx0CHY&code=4/0AfgeXvt8Jzs
gbFGVL_Op5X28b3PDaPV7NnnNdK4Qe5ouo9zNDkR1SGXICt16ltXTEbRSJg&scope=email profile http
s://www.googleapis.com/auth/userinfo.email https://www.googleapis.com/auth/userinfo.profile open
id&authuser=0&hd=pdx.edu&prompt=consent
```

| | |
|-----------------------------------|--|
| Status | 302 FOUND ? |
| Version | HTTP/1.1 |
| Transferred | 2.31 KB (771 B size) |
| Referrer Policy | strict-origin-when-cross-origin |
| Request Priority | Highest |
| ▼ Response Headers (1.559 KB) Raw | |
| ? | Connection: close |
| ? | Content-Length: 197 |
| ? | Content-Type: text/html; charset=utf-8 |
| ? | Date: Sun, 20 Nov 2022 21:36:08 GMT |
| ? | Location: /sign |
| ? | Server: Werkzeug/2.2.2 Python/3.8.10 |

5. Take a screenshot of the Headers that includes the entire Callback URL and its returned HTTP status code. What location is the User sent to as a result of this request?

The user is sent to the authenticated guestbook page, which is linked from the google authentication process.

6.

| | |
|---|--|
| ▼ Filter Headers | Block Resend |
| ▶ GET http://localhost:8000/favicon.ico | |
| Status | 404 NOT FOUND ? |
| Version | HTTP/1.1 |
| Transferred | 207 B (207 B size) |
| Referrer Policy | strict-origin-when-cross-origin |
| ▼ Response Headers (181 B) Raw | |
| ? | Connection: close |
| ? | Content-Length: 207 |
| ? | Content-Type: text/html; charset=utf-8 |
| ? | Date: Sun, 20 Nov 2022 21:32:55 GMT |
| ? | Server: Werkzeug/2.2.2 Python/3.8.10 |
| ▼ Request Headers (1.718 KB) Raw | |
| ? | Accept: image/avif,image/webp,*/* |
| ? | Accept-Encoding: gzip, deflate, br |
| ? | Accept-Language: en-US,en;q=0.5 |

Guestbook

[Sign here](#) | [Logout](#)

Writer **ntries**

M Max Huecksteadt <mhueck2@pdx.edu>
on 2022-11-20
Hello from Oauth!


M Max Huecksteadt <mhueckst@gmail.com>
on 2022-11-20
Hello again from Oauth!

7.

Signing in with Google

You use your Google Account to sign in to these sites and apps. They can view your name, email address, and profile picture. [Learn more](#)

Google Account sign-in prompts
Allow Google to offer a faster way to sign in with your Google Account on supported third-party sites ☒

 **Guestbook**

REMOVE ACCESS

Has access to:

Basic account info

See your primary Google Account email address

See your personal info, including any personal info you've made publicly available

Access given on:

15 minutes ago

8.

9.

```
(env) mhueck2@cloudshell:~/python-docs-samples/vision/snippets/detect (cloud-huecksteadt-mhueck2)$ python detect.py labels-uri gs://ml-api-codelab/birds.jpg
Labels:
Bird
Ratite
Cloud
Sky
Beak
Plant
Green
Neck
Ostrich
Casuariiformes
```

10. What is the name of the function?

`async_detect_document`

What type of Vision client is instantiated in it?

The 'ImageAnnotatorClient'

What method is invoked in the Vision client to perform the detection?

`client.async_batch_annotate(files`

What is the name of the attribute in the response object that contains the results we seek?

Output

11.

```
mhueck2@cloudshell:~/python-docs-samples/vision/snippets/detect (cloud-huecksteadt-mhueck2)$ python detect.py logos ~/python-docs-samples/vision/snippets/detect/images.jpg
Logos:
University of Oregon
RadioShack
mhueck2@cloudshell:~/python-docs-samples/vision/snippets/detect (cloud-huecksteadt-mhueck2)$
```

12. The image annotator client is invoked again to detect the logo.

13.

```
(env) mhueck2@cloudshell:~/python-speech/samples/snippets (cloud-huecksteadt-mhueck2)$ python transcribe.py resources/audio.raw
Transcript: how old is the Brooklyn Bridge
```

14. What is the name of the function?

`transcribe_file()`

What method is invoked in the Speech client to perform the detection?

RecognitionAudio

What is the name of the attribute in the response object that contains the results we seek?

'Audio'

```
(env) mhueck2@cloudshell:~/python-translate/samples/snippets (cloud-huecksteadt-mhueck2)$ python snippets.py translate-text en '你有沒有帶外套'
Text: 你有沒有帶外套
Translation: do you have a coat
15. Detected source language: zh-TW
```

16. What is the name of the function?

Translate_text

What method is invoked in the Translate client to perform the detection?

Translate

What is the name of the attribute in the response object that contains the results we seek?

Result

17.

```
(env) mhueck2@cloudshell:~/python-translate/samples/snippets (cloud-huecksteadt-mhueck2)$ vim language
.py
(env) mhueck2@cloudshell:~/python-translate/samples/snippets (cloud-huecksteadt-mhueck2)$ python language.py 'homework is awful!'
"homework is awful!" has sentiment=-0.800000011920929

Entities are:
name: homework
(env) mhueck2@cloudshell:~/python-translate/samples/snippets (cloud-huecksteadt-mhueck2)$ python language.py 'homework is ok'
"homework is ok" has sentiment=0.30000001192092896

Entities are:
name: homework
(env) mhueck2@cloudshell:~/python-translate/samples/snippets (cloud-huecksteadt-mhueck2)$ python language.py 'homework is awesome?'
"homework is awesome?" has sentiment=0.4000000059604645

Entities are:
name: homework
(env) mhueck2@cloudshell:~/python-translate/samples/snippets (cloud-huecksteadt-mhueck2)$ python language.py 'homework is awesome!'
"homework is awesome!" has sentiment=0.8999999761581421

Entities are:
name: homework
(env) mhueck2@cloudshell:~/python-translate/samples/snippets (cloud-huecksteadt-mhueck2)$ python language.py 'The protestors in Oregon put on gas masks and wore yellow t-shirts'
"The protestors in Oregon put on gas masks and wore yellow t-shirts" has sentiment=-0.6000000238418579

Entities are:
name: protestors
name: gas masks
name: Oregon
name: t-shirts
(env) mhueck2@cloudshell:~/python-translate/samples/snippets (cloud-huecksteadt-mhueck2)$
```

18. What is the name of the function that performs the transcription?

transcribe_gcs

What is the name of the function that performs the translation?

`translate_text`

What is the name of the function that performs the entity analysis on the translation?

`entities_text`

What is the name of the function that performs the entity analysis on the image?

`Detect_labels_uri`

19. The image analysis must be changed, as all other APIs understand the 'soccer' sentiment/entity

20. Again, the image analysis must consider that a Bicycle is also a Bike

21. The image analysis must understand that there are multiple ostriches.

22.

What are the top 3 labels that the Video Intelligence API associates with the video and what is its confidence in them?

Sports: .92, basketball: .91, player: .84

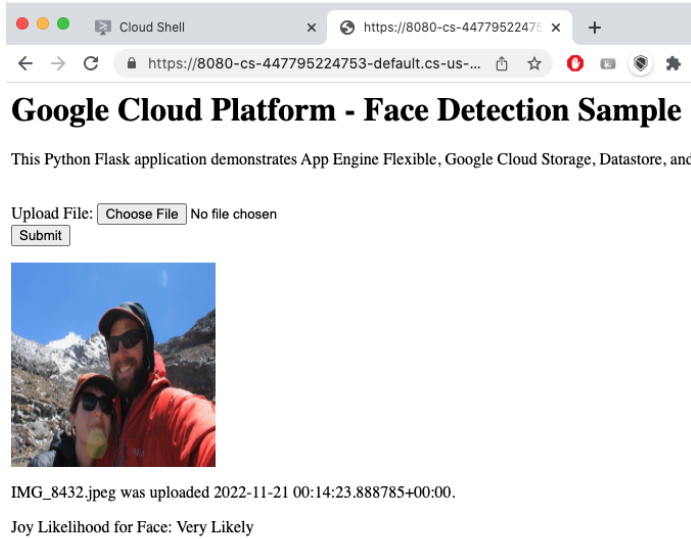
23. What is the name of the client class in the package that is used?

`VideoIntelligenceServiceClient()`

What method is used in that class to perform the annotation?

`annotate_video`

24.



25. What line of code creates the query for previous detections?

```
query = datastore_client.query(kind="Faces")
```

What line of code sends the query to Cloud Datastore?

```
Image_entities = list(queries.fetch())
```

26. Show the line that retrieves the name of the storage bucket to use.

```
Bucket = storage_client.get_bucket(CLOUD_STORAGE_BUCKET)
```

What form field is used to specify the uploaded photo?

```
"file" (as in photo = request.files["file"])
```

Show the line that copies the photo's contents to the storage bucket.

```
blob.upload_from_string(photo.read(), content_type=photo.content_type)
```

What method in Vision's annotation client is used to perform the analysis?

```
face_detection.face_annotations
```

What fields are stored in Cloud Datastore for each image?

The storage bucket 'blob' name, the url, the timestamp, and the joy likelihood

What happens at the end of the `upload_photo` route?

The entity is stored to cloud Datastore and the user is redirected to the home page of the app.

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

a. Localhost, fir-mhueck2.firebaseio.com, fir-mhueck2.web.app

28.

```
codelab-friendlychat-web > web-start > public > scripts > main.js
1  /*
2  * ATTENTION: An "eval-source-map" devtool has been used.
3  * This devtool is neither made for production nor for readable output files.
4  * It uses "eval()" calls to create a separate source file with attached
   SourceMaps in the browser devtools.
5  * If you are trying to read the output file, select a different devtool (https://
   webpack.js.org/configuration/devtool/)
6  * or disable the default devtool with "devtool: false".
7  * If you are looking for production-ready output files, see mode: "production"
   (https://webpack.js.org/configuration/mode/).
8  */
9  /******/ (() => { // webpackBootstrap
10 /******/    "use strict";
```

29.

30. What missing functions deal with user authentication?

`signIn()`, `signOutUser()`, `initFirebaseAuth()`

31. What missing functions deal with sending and receiving messages?

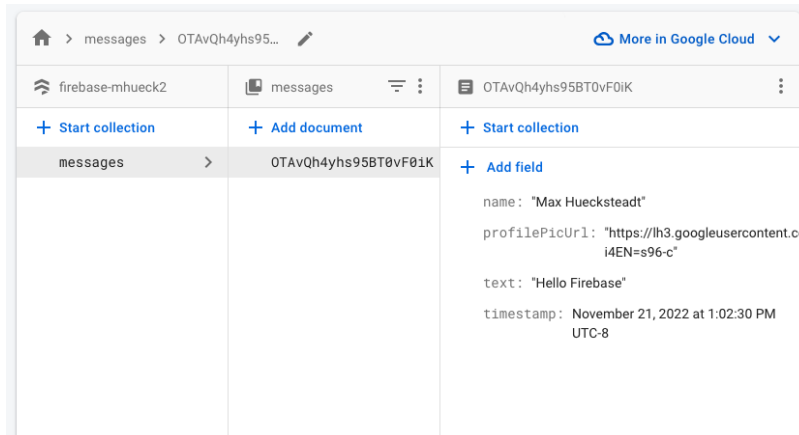
`saveMessage()`, `loadMessages()`, `saveImageMessage()`

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

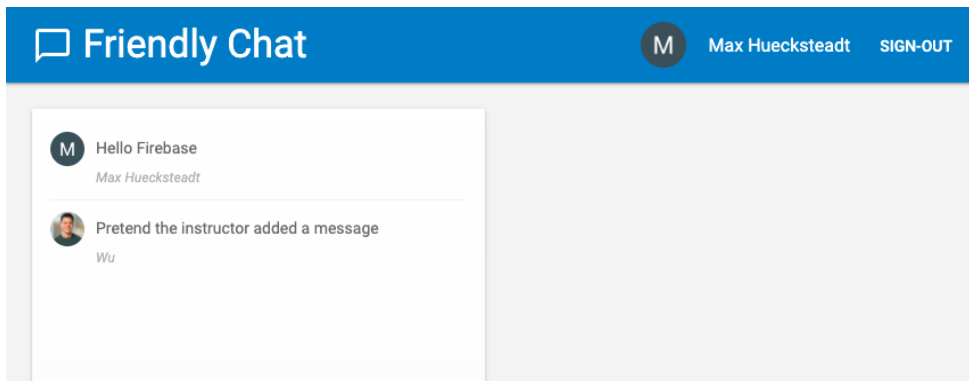
`userNameElement`, `userPicElement`, `signOutButtonElement`

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

`signInButtonElement`



34.



35.

36. What is the URL of the image that is first shown in the UI as the message is loading?

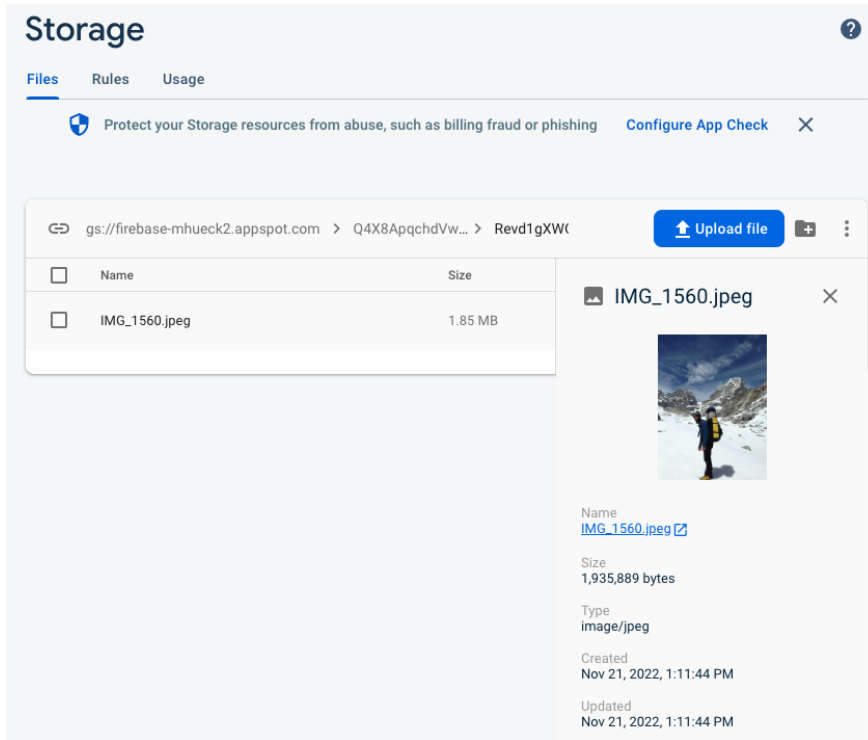
- a. `var LOADING_IMAGE_URL = 'https://www.google.com/images/spin-32.gif?a';`

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

- a. The image fields are: imageUrl, name, profilePicUrl, storageUri, and timestamp. So, just imageUrl and storageUri are different.

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

- a. URL:
https://firebasestorage.googleapis.com/v0/b/firebase-mhueck2.appspot.com/o/Q4X8ApqchdVwC1hSKG4P6Fdalmv2%2FRevvd1gXWOMjxGhKEzu6U%2FIMG_1560.jpeg?alt=media&token=6bdbd765-9729-49a2-b518-15e3ba1bbbd0
- b. Storage:
 Q4X8ApqchdVwC1hSKG4P6Fdalmv2/Revvd1gXWOMjxGhKEzu6U/IMG_1560.jpeg



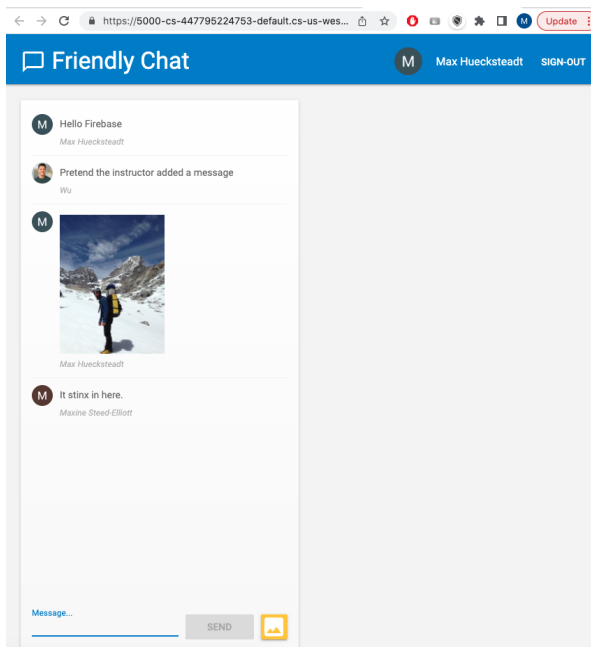
39.

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

a. `./public`

41. What does the Cache-Control setting configured for the HTML and Javascript files do?

a. The cache-control is set to `max-age=0`, so the response will remain constantly fresh (it can be stored and reused by caches indefinitely).



42.