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## 08.1g: Deployment Manager Guestbook

### 6. Deploy the backend

- Take a screenshot of the deployed resources as below

←

ashfaq-restapi

DELETE

✓

ashfaq-restapi has been deployed

Overview - ashfaq-restapi

entries

gcp-types/cloudfunctions-v1:projects.locations.functions

entries-iam

gcp-types/cloudfunctions-v1:virtual.projects.locations.functions.iamMemberBinding

entry

gcp-types/cloudfunctions-v1:projects.locations.functions

entry-iam

gcp-types/cloudfunctions-v1:virtual.projects.locations.functions.iamMemberBinding

Overview - ashfaq-restapi

Deployment properties


ID	5637050412049758959
Created On	2021-11-22 (17:29:36)
Manifest Name	manifest-1637630976184
Config	<a href="#">View</a>
Layout	<a href="#">View</a>
Expanded Config	<a href="#">View</a>

## 8. Deploy the frontend

- Take a screenshot of the deployed resources as below

←

ashfaq-frontend

 DELETE

✓

ashfaq-frontend has been deployed

Overview - ashfaq-frontend

ashfaq-frontend storage bucket

Overview - ashfaq-frontend

Deployment properties

ID	6760801387840404374
Created On	2021-11-22 (17:35:53)
Manifest Name	manifest-1637631353321
Config	<a href="#">View</a>
Layout	<a href="#">View</a>
Expanded Config	<a href="#">View</a>

## 9. View the Guestbook

- Take a screenshot as before that shows your entry and the static website hosting URL.

storage.googleapis.com/ashfaq-frontend/index.html

### Guestbook

Name:

Email:

Message:

Hello Deployment Manager!

### Entries

Mazin Ashfaq <ashfaq@pdx.edu>  
signed on 2021-11-01 20:40:03.003588+00:00  
Hello Compute Engine!

---

Mazin <ashfaq@pdx.edu>  
signed on 2021-11-01 13:14:43.707558+00:00  
Hello Datastore!

---

Mazin <ashfaq@pdx.edu>  
signed on 2021-11-23 01:37:56.313434+00:00  
Hello Deployment Manager!

## 08.2g: ML APIs

### 3. Vision

- Show the output for your lab notebook

```
(env) ashfaq@cloudshell:~/python-vision/samples/snippets/detect (cloud-f21-mazin-ashfaq-ashfaq)
Labels:
Bird
Ratite
Cloud
Sky
Plant
Beak
Green
Neck
Casuariiformes
Ostrich
```

- What is the name of the function?

```
detect_labels_uri(uri)
```

- What type of Vision client is instantiated in it?

```
client = vision.ImageAnnotatorClient()
```

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

```
response = client.label_detection(image=image)
```

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

```
print(label.description)
```

- Take a screenshot of the output for the above commands

```
(env) ashfaq@cloudshell:~/python-vision/samples/snippets/detect (cloud-f21-mazin-ashfaq-ashfaq) $ python detect.py logos psul
Logos:
Portland State University
(env) ashfaq@cloudshell:~/python-vision/samples/snippets/detect (cloud-f21-mazin-ashfaq-ashfaq) $
```

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

logos

## 4. Speech

- Show the output for your lab notebook

```
(env) ashfaq@cloudshell:~/python-speech/samples/  
Transcript: how old is the Brooklyn Bridge
```

- What is the name of the function?

transcribe\_file(speech\_file):

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

speech.RecognitionAudio(content=content)

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

response.results:

## 5. Translate

- Show the output for your lab notebook

```
(env) ashfaq@cloudshell:~/python-trans  
Text: 你有沒有帶外套  
Translation: Did you bring a jacket  
Detected source language: zh-TW
```

- What is the name of the function?

translate\_text



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

```
translate_client.translate(text, target_language=target)
```

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

```
result
```

## 6. Natural Language

- Show the output for your lab notebook

Could not get it to work...

## 8. Code

- What is the name of the function that performs the transcription?

```
transcribe_gcs(language, audio)
```

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

```
translate_text('en', transcription)
```

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

```
entities = entities_text(translation)
```

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

```
labels = detect_labels_uri(image)
```

## 9. Test integration

- If the program deems them unrelated, then based on the results from the APIs, what must be changed in the program to address this?

Make sure the capitalization is correct.

- If the program deems them unrelated, then based on the results from the APIs, what must be changed in the program to address this?

Find a way to have aliases, bike is a different name for bicycle.

- If the program deems them unrelated, then based on the results from the APIs, what must be changed in the program to address this?

Check the first x letters to match labels and entities

## 13. Video Intelligence

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

Video label description: player  
Segment 0: 0s to 178s  
Confidence: 0.8446521162986755

Video label description: sports  
Segment 0: 0s to 178s  
Confidence: 0.9218811392784119

Video label description: basketball  
Label category description: sports  
Segment 0: 0s to 178s  
Confidence: 0.9137870669364929

- 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?

```
video_client.annotate_video(input_uri=path, features=features)
```

## 16. Application


- Take a screenshot for your lab notebook that includes the URL.

← → ↻ 8080-cs-775515843963-default.cs-us-west1-ijlt.cloudshell.dev/?authuser=0

### Google Cloud Platform - Face Detection Sample


This Python Flask application demonstrates App Engine Flexible, Google Cloud Storage, Datastore, and the Cloud Vision API.

Upload File:  No file chosen



0x1z5n3x4fs61.jpg was uploaded 2021-11-23 04:03:32.604891+00:00.

Joy Likelihood for Face: Unknown



IMG\_1862.jpg was uploaded 2021-11-23 04:04:17.016394+00:00.

Joy Likelihood for Face: Unlikely

## 17. Code

- 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(query.fetch())
```

- 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?

```
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?

```
vision_client.face_detection(image=image).face_annotations
```

- What fields are stored in Cloud Datastore for each image?

```
likelihoods = [  
    "Unknown",  
    "Very Unlikely",  
    "Unlikely",  
    "Possible",  
    "Likely",  
    "Very Likely",  
]
```

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

```
# Save the new entity to Datastore.
datastore_client.put(entity)

# Redirect to the home page.
return redirect("/")
```

## 08.3g: Firebase

### 4. Authentication setup

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

Localhost, fir-ashfaq.firebaseio.com, fir-ashfaq.firebaseio.com

## 8. Bundling with Webpack

- Take a screenshot of the first 10 lines of the produced file.



## 12. Add authentication

- What missing functions deal with user authentication?

`getAuth()`

- What missing functions deal with sending and receiving messages?

SignIn and SignOutUser

## 13. Update UI

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

Note sure

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

Note sure

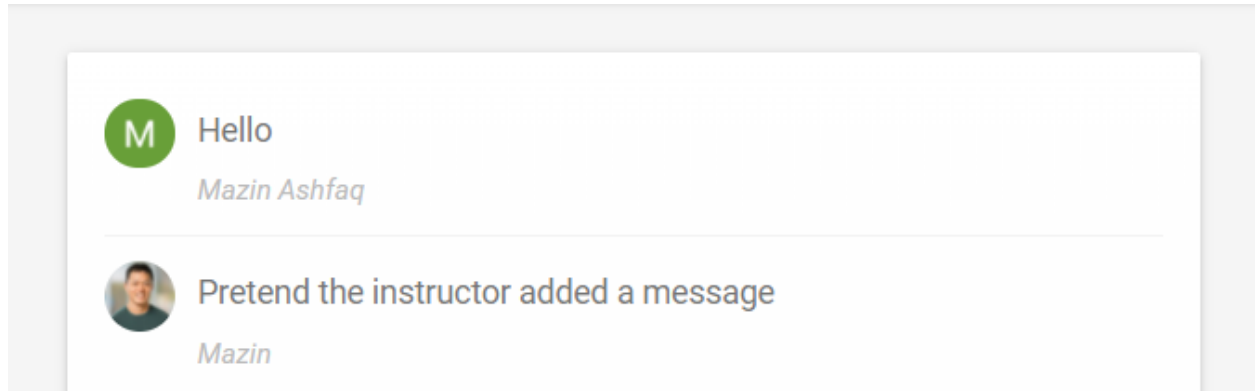
## 16. Test application with text messaging

- Include a screenshot of the message and its fields in the database for your lab notebook

🏠 > messages > ZWKmwkKM40...		
🔗 firebase-ashfaq	📁 messages	📄 ZWKmwkKM409Y3rEQRjLq
+ Start collection	+ Add document	+ Start collection
messages >	ZWKmwkKM409Y3rEQRjLq >	+ Add field
		name: "Mazin Ashfaq" profilePicUrl: "https://lh3.googleusercontent.com/a/AATXAJzjVAfxtFayXQfC" text: "Hello" timestamp: November 23, 2021 at 12:32:56 AM UTC-8

## 17. Manual message insertion

- Include a screenshot of the application with its two messages for your lab notebook



## 18. Add image messaging

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

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

## 19. Test application with image messaging

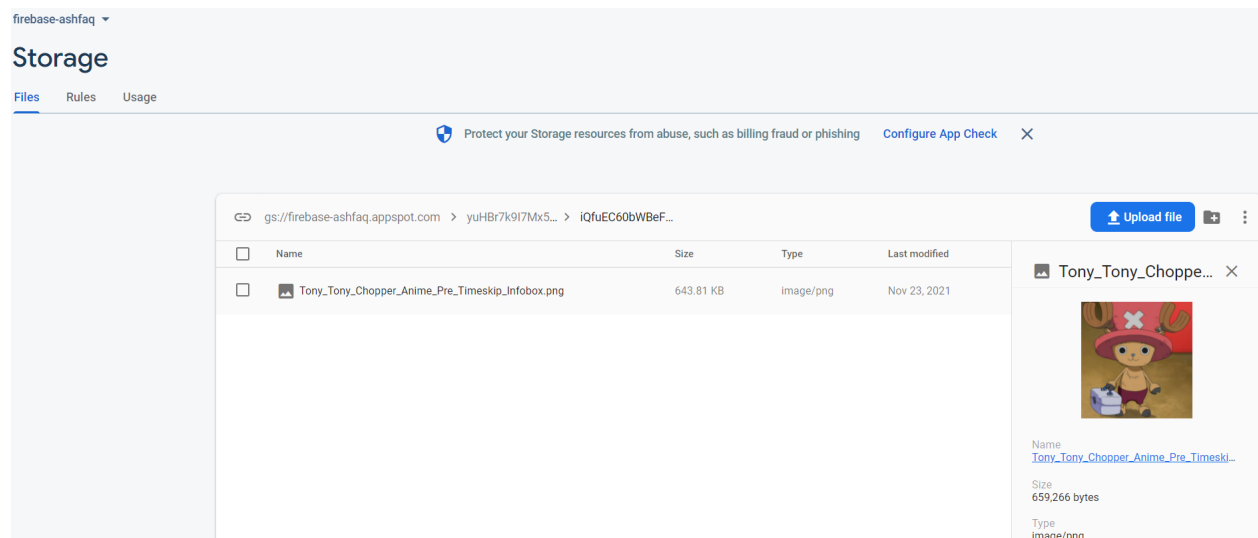
- How do the fields in an image document differ from that of the text document?

We have storage uri and imageUrl

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

In 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?

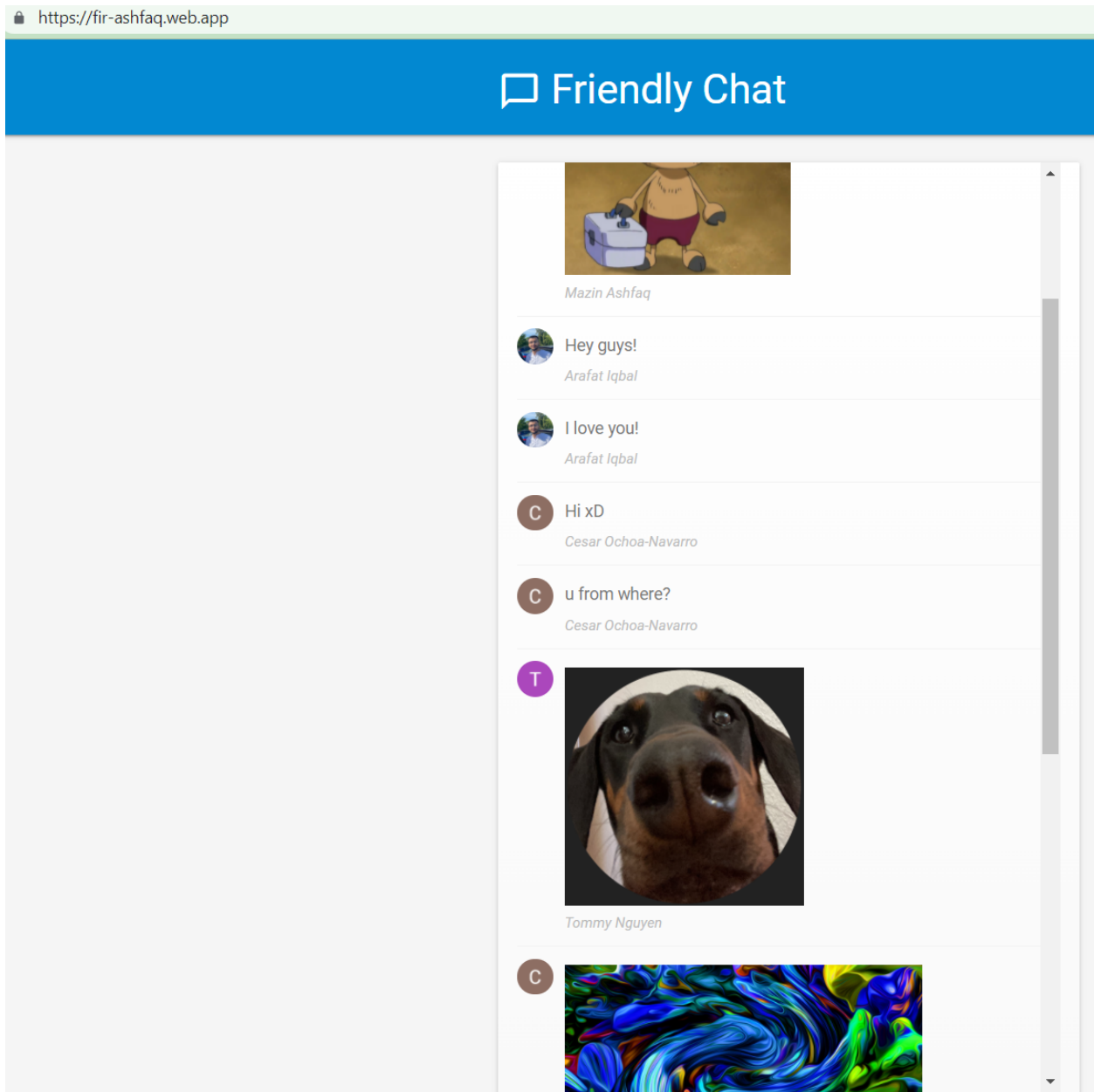
Public Directory

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

Not Sure



- Take a screenshot of the message including the URL for your lab notebook.

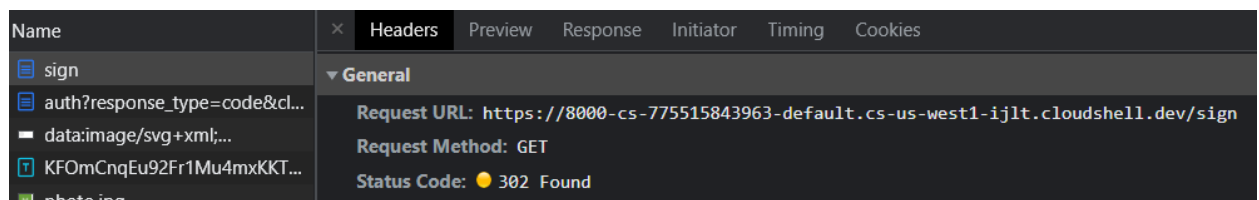


## 08.4: OAuth2 Guestbook

NOTE: My local environment was not running properly so I used cloudshell and instead of the localhost callback and localhost uri, I added the address cloudshell returns. Thus my callback URI and Uri are not local host.

## 12. Running the code

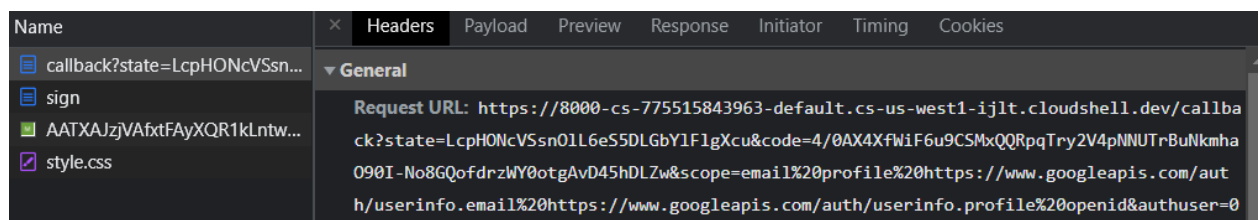
- Take a screenshot of the Headers that includes the URL and the returned HTTP status code for each request for your lab notebook.



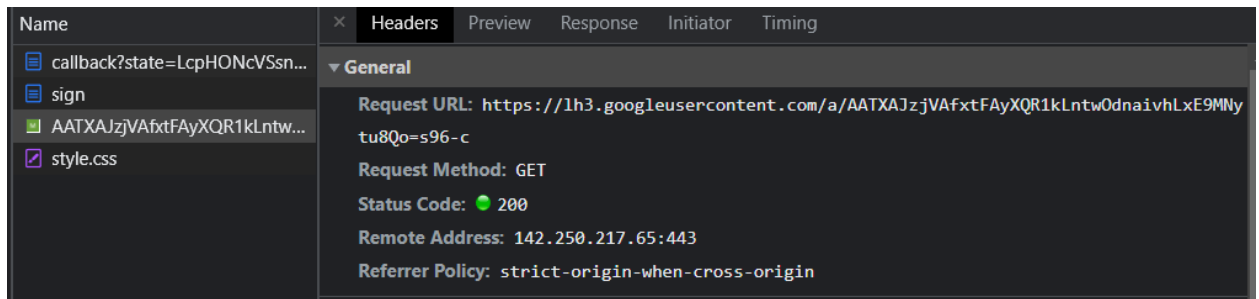
- Based on the description of the source code, what lines of code in our application are responsible for the second request?

```
authorization_url, state = google.authorization_url(authorization_base_url)
session['oauth_state'] = state
return redirect(authorization_url)
```

- 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?



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



- Take a screenshot showing multiple authenticated accounts have been able to sign the Guestbook.

Logging out seems to not be working

## 13. Removing access

- Take a screenshot of the expanded information that includes your OdinId for your lab notebook.

