Part 5

Let's use our new model. This section will show you how to use GCS and Cloud Functions to get annotations about images.

1. Open Google Cloud Console: https://console.cloud.google.com
2. Open Cloud Shell.
3. Create bucket using:

```
gsutil mb -l us-central1 gs://$DEVSHELL_PROJECT_ID-vision/
```

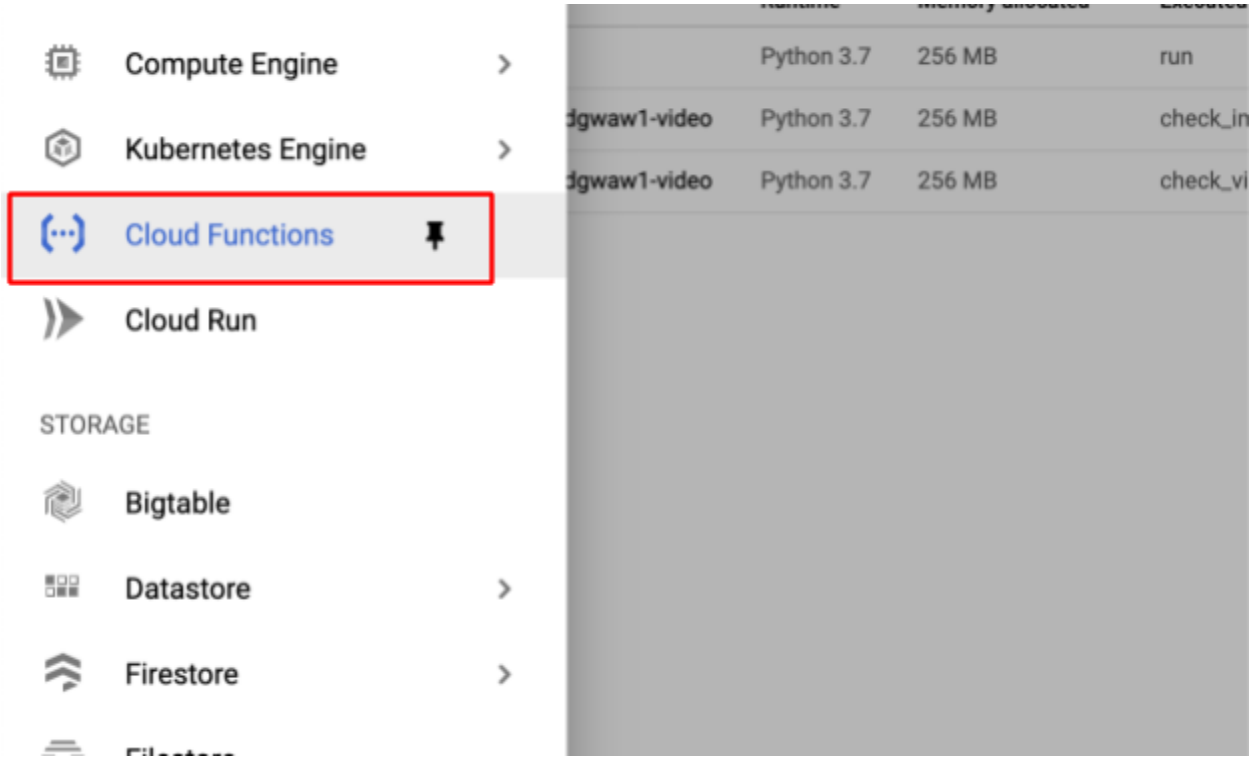
4. Go to folder vision:

```
cd ~/gdgwarsaw2019/vision
```

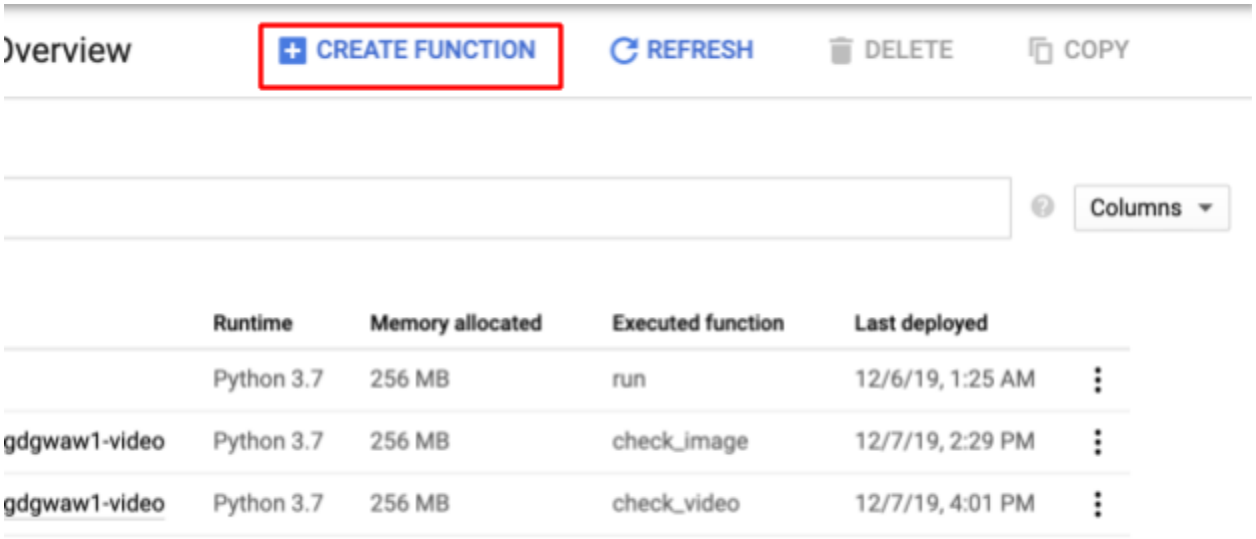
5. Run visionapi.py:

```
python visionapi.py
```

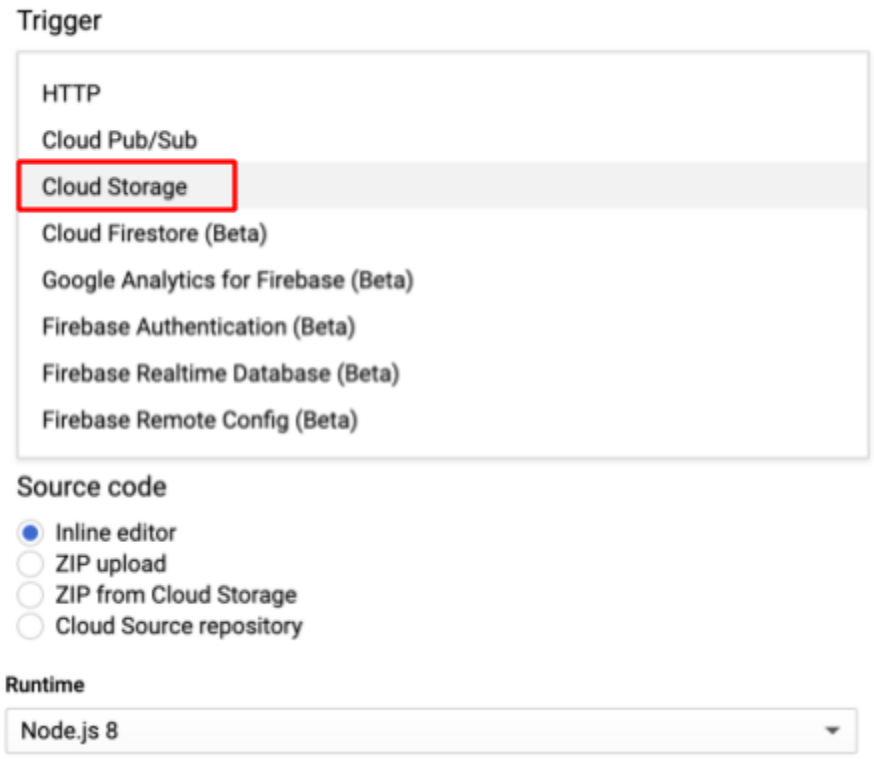
6. Go to Cloud Functions:



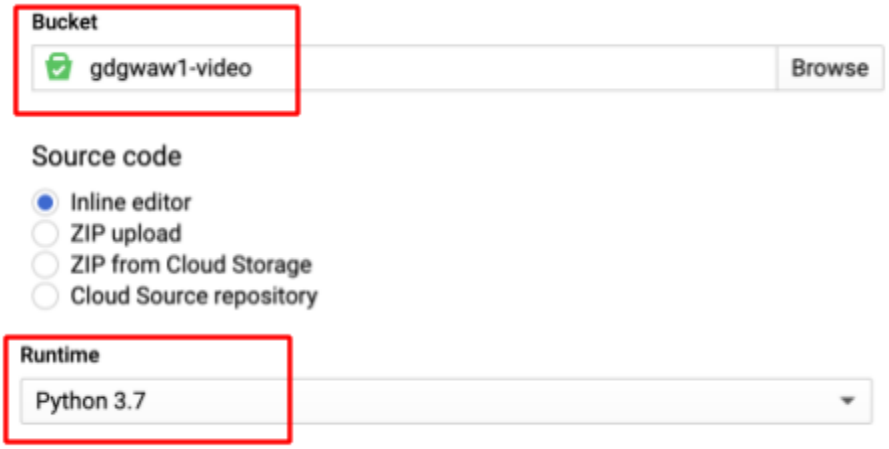
7. Click CREATE FUNCTION:



8. Choose Trigger - **Cloud Storage**:



9. Choose bucket - **PROJECT_ID-video** and runtime **Python 3.7**:



10. Open ~/gdgwarsaw2019/vision/automl.py copy all and paste to main.py in Cloud Functions. Change field *Function to execute to* **check_image**:

```python
def check_image(event, context):
    from google.cloud import storage
    # project ID here
    project_id = ''
    # model ID here
    model_id = ''
    file = event
    if event['contentType'] == "image/jpeg":
        client = storage.Client()
        fileName = file['name']
        folderName = file['bucket']
        content = client.bucket(folderName).get_blob(fileName
        content = content.download_as_string()
        value = get_prediction(content, project_id, model_id)
        to_store = ""
        for data in value.payload:
            to_store = to_store+str(data)+"\n"
        output_file = "output/"+fileName+".txt"
        blob = client.bucket(folderName).blob(output_file)
        blob.upload_from_string(to_store, content_type="text/


def get_prediction(content, project_id, model_id):
    from google.cloud import automl_v1beta1
    prediction_client = automl_v1beta1.PredictionServiceClien
```

Function to execute

check_image

11. Fill **project_id** and **model_id** variables
12. Add to requirements.txt:

google-cloud-storage >= 1.14.0
google-cloud-automl >= 0.9.0

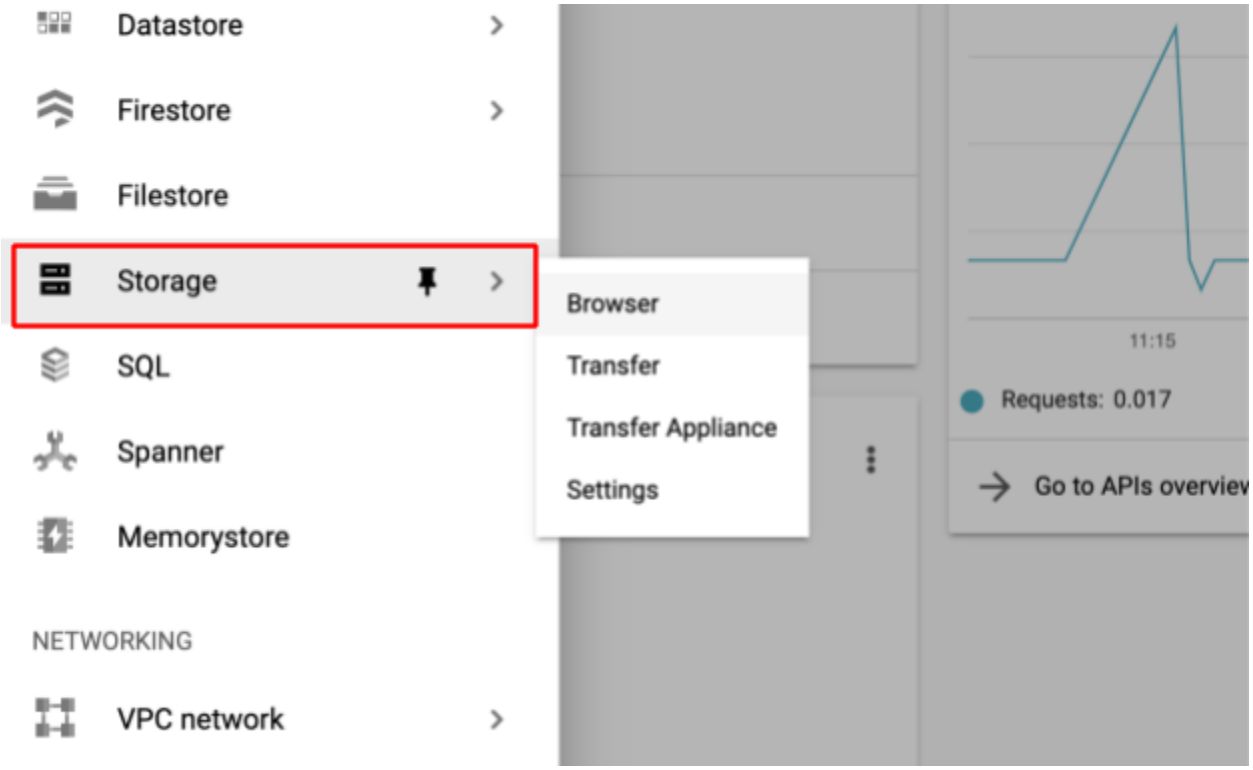
13. Click **Create**
14. Wait for Deployment.
15. Open Cloud shell and go to ~/gdgwarsaw2019/vision:

```
cd ~/gdgwarsaw2019/vision
```

16. Copy jpg files to storage bucket:

```
gsutil cp *.jpg gs://$DEVSHELL_PROJECT_ID-vision/
```

17. Go to Storage:



18. Open PROJECT_ID-vision bucket
19. Open folder output and check output files.