Cloud Project

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Motivation

- The need of searching actors or other famous person when watching foreign dramas or news

＊Especially all the friends of you is talking about such specific topic

Motivation —example

- For Chinese People watching Japanese Drama

- Who are they? How to search?

Motivation

- Who are they? How to search?

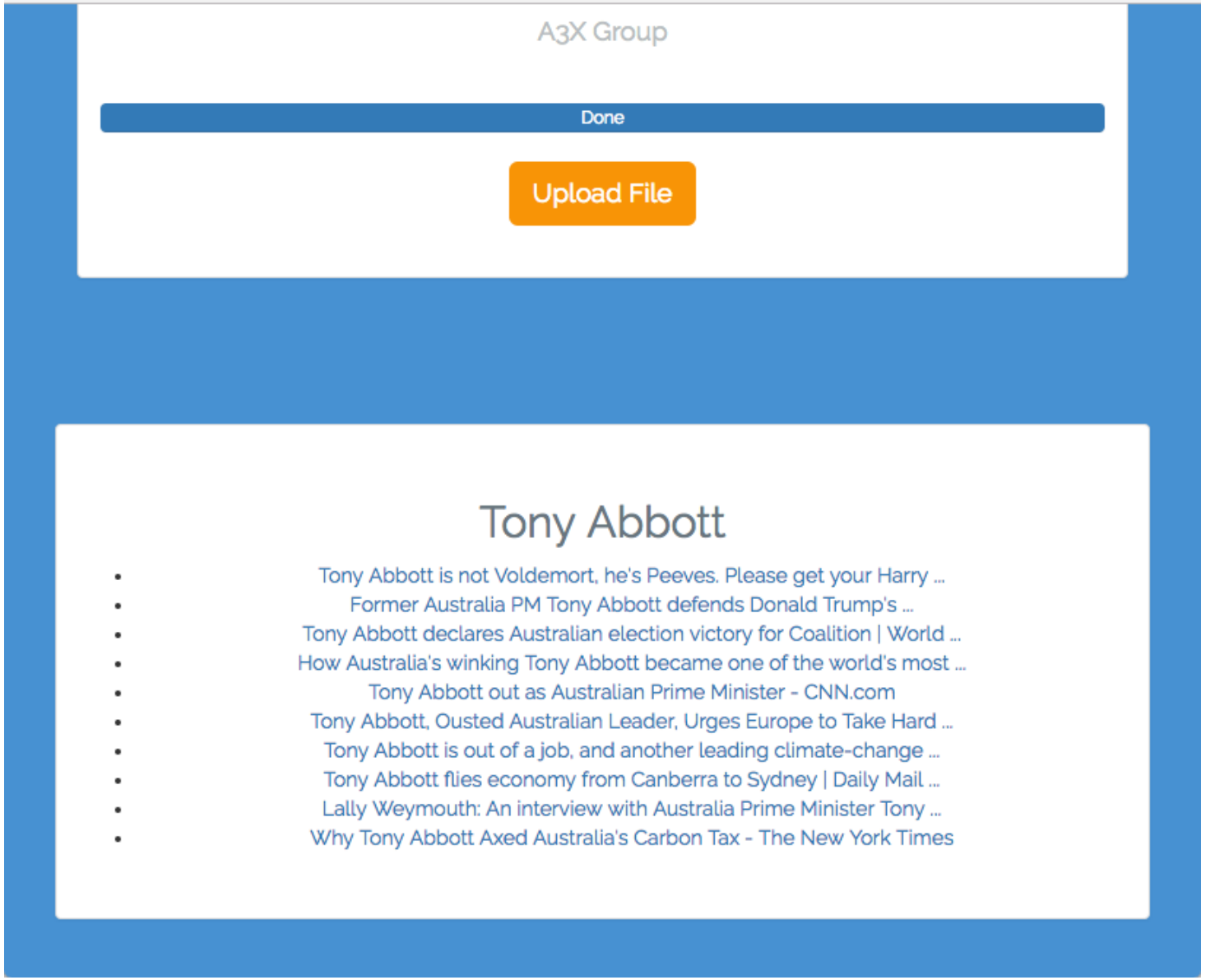
Who is this near the Japan prime minister?

Motivation

- Who are they? How to search?

Motivation

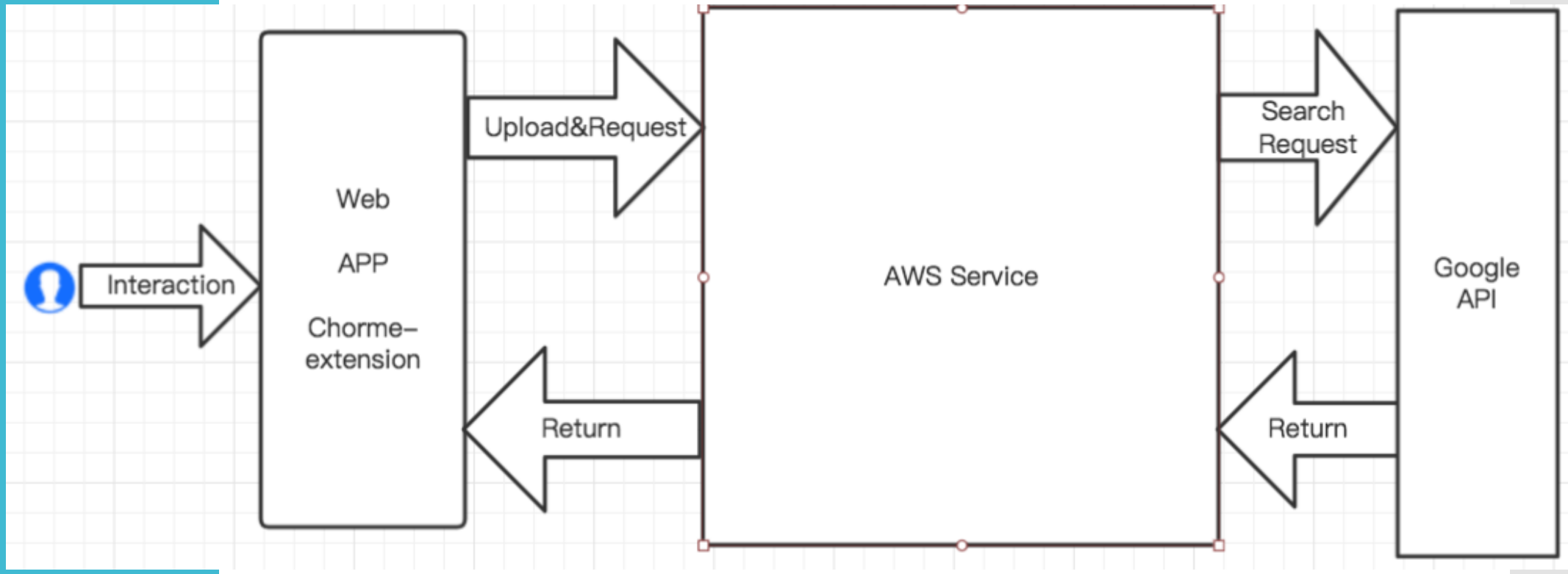
- Who are they? How to search?



Plan of our Service

- Input: The User can Upload／Caputure a picture of a well-known face
- Output: The current circumenstence in this picture & The recent news about this person

System Structure



Using AWS Service

- AWS Rekognition
- AWS API Gateway
- AWS S3
- AWS lambda

AWS Rekognition

- Deep Learning for Image Detection
- Can recognize the face of famous persons

AWS S3

- Amazon Simple Storage Service (Amazon S3) is storage for the Internet. We can use Amazon S3 to store and retrieve any amount of data at any time, from anywhere on the web.

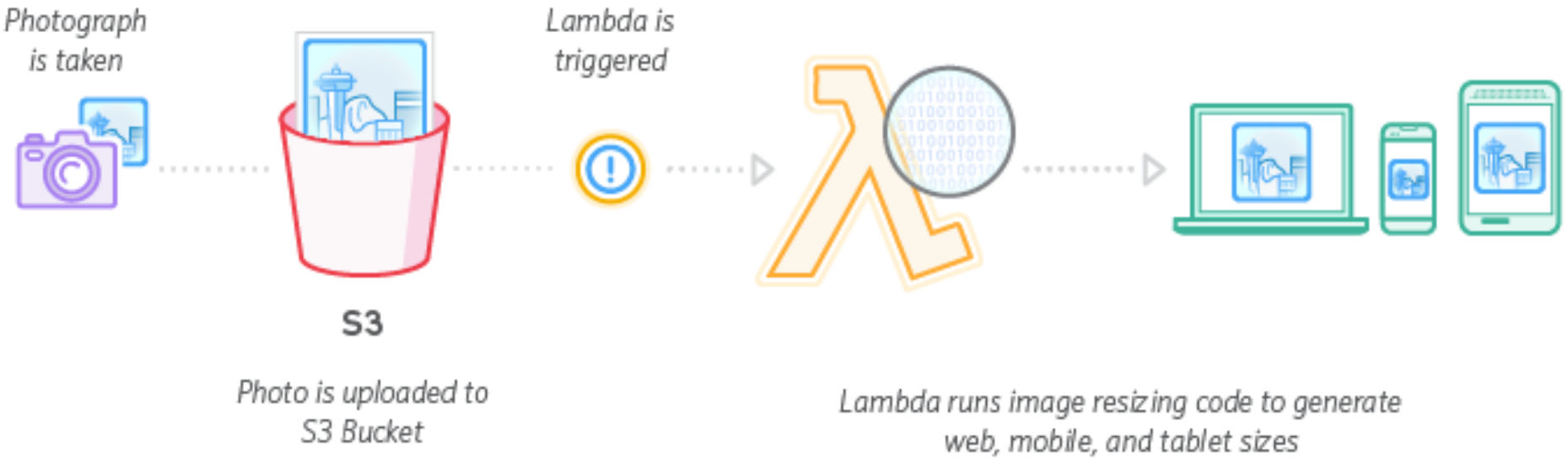
AWS API Gateway

- Amazon API Gateway is a fully managed service for APIs
- Can create an API that acts as a "front door" for applications to access data, business logic, or functionality from your back-end services, such as EC2 or AWS Lambda, or any Web application.

AWS Lambda

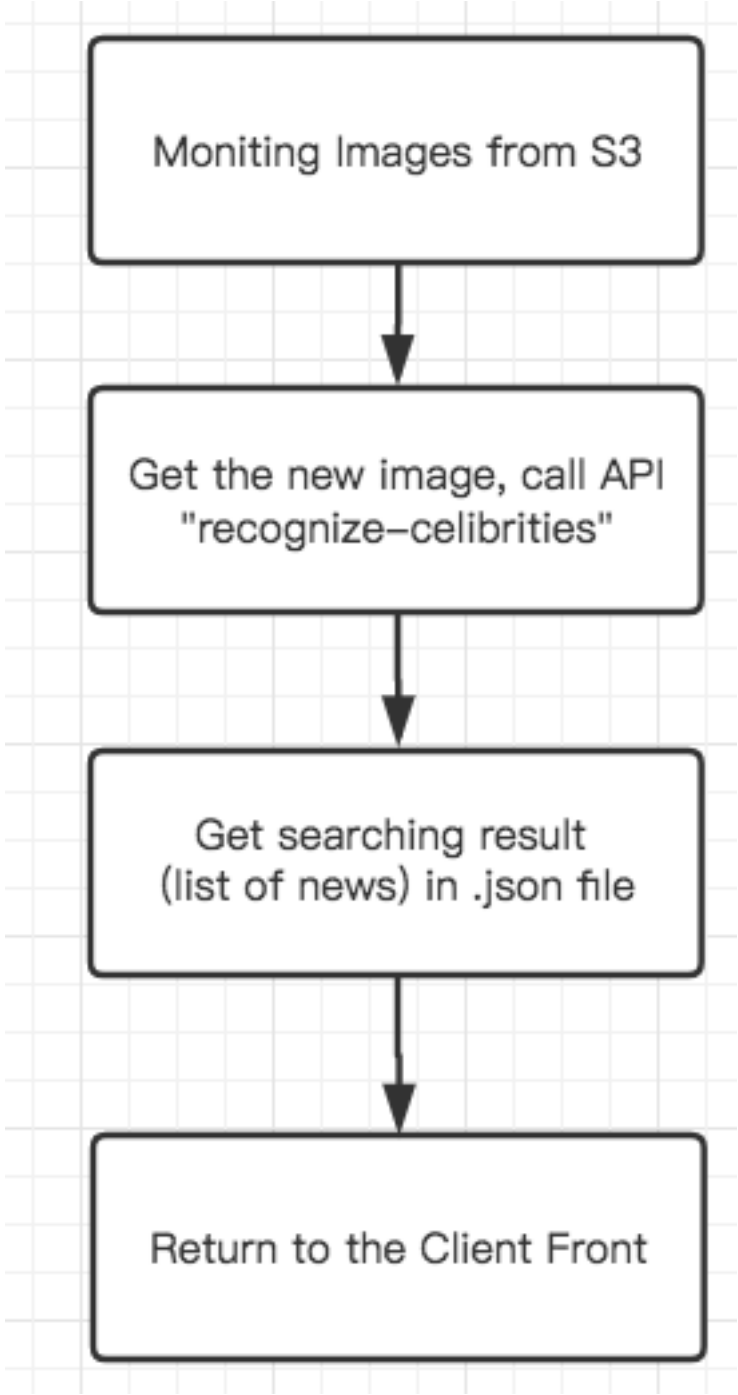
- Amazon Lambda is like a real-time pipeline that can handle data transmission and other activities.
- We can use AWS Lambda to run your code in response to events, such as changes to data in an Amazon S3 bucket, and to run your code in response to HTTP requests using Amazon API Gateway.
- https://aws.amazon.com/cn/lambda/

AWS Lambda

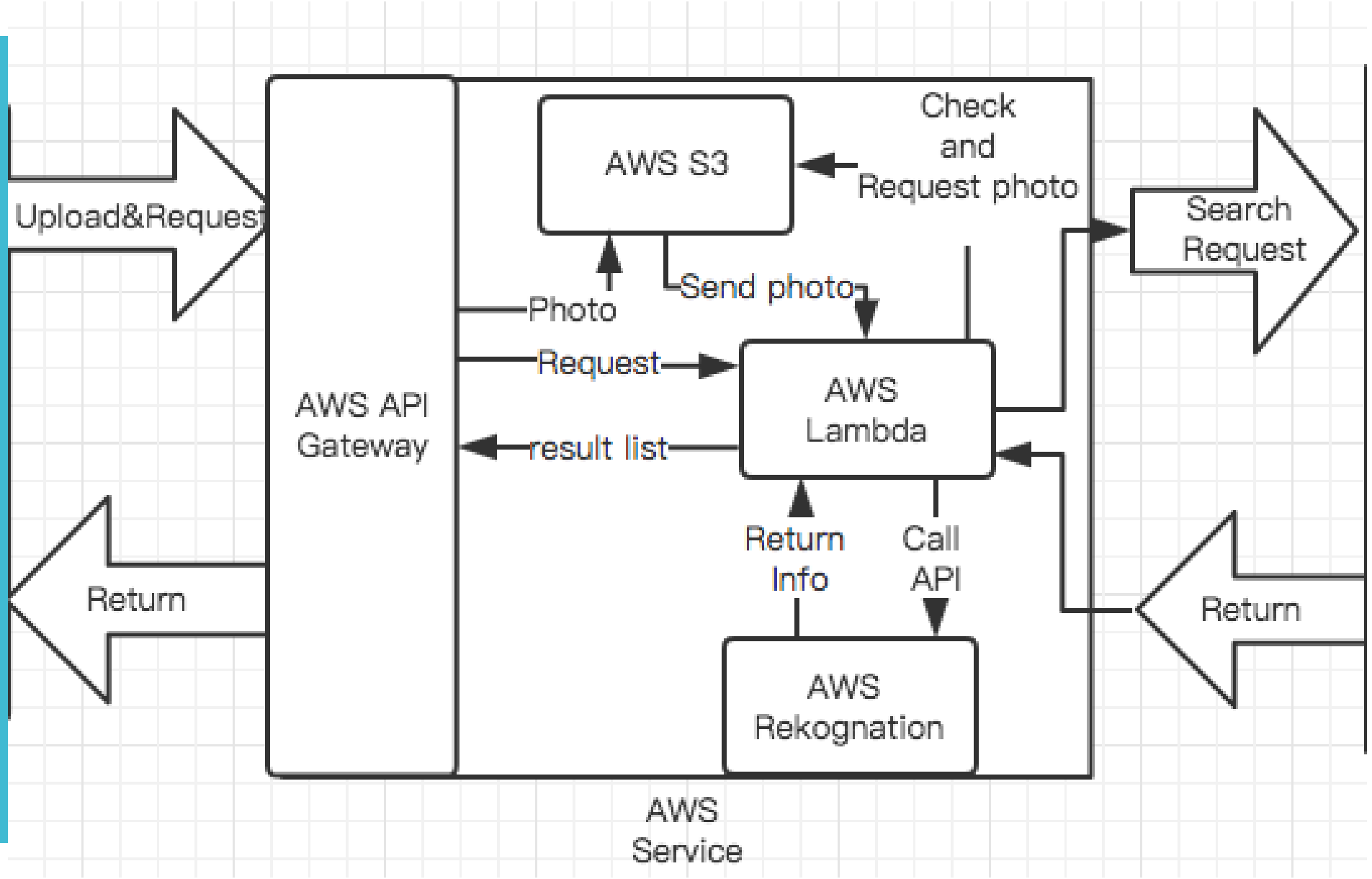

Photograph is taken
Lambda is triggered
S3
Photo is uploaded to S3 Bucket
Lambda runs image resizing code to generate web, mobile, and tablet sizes

AWS Lambda

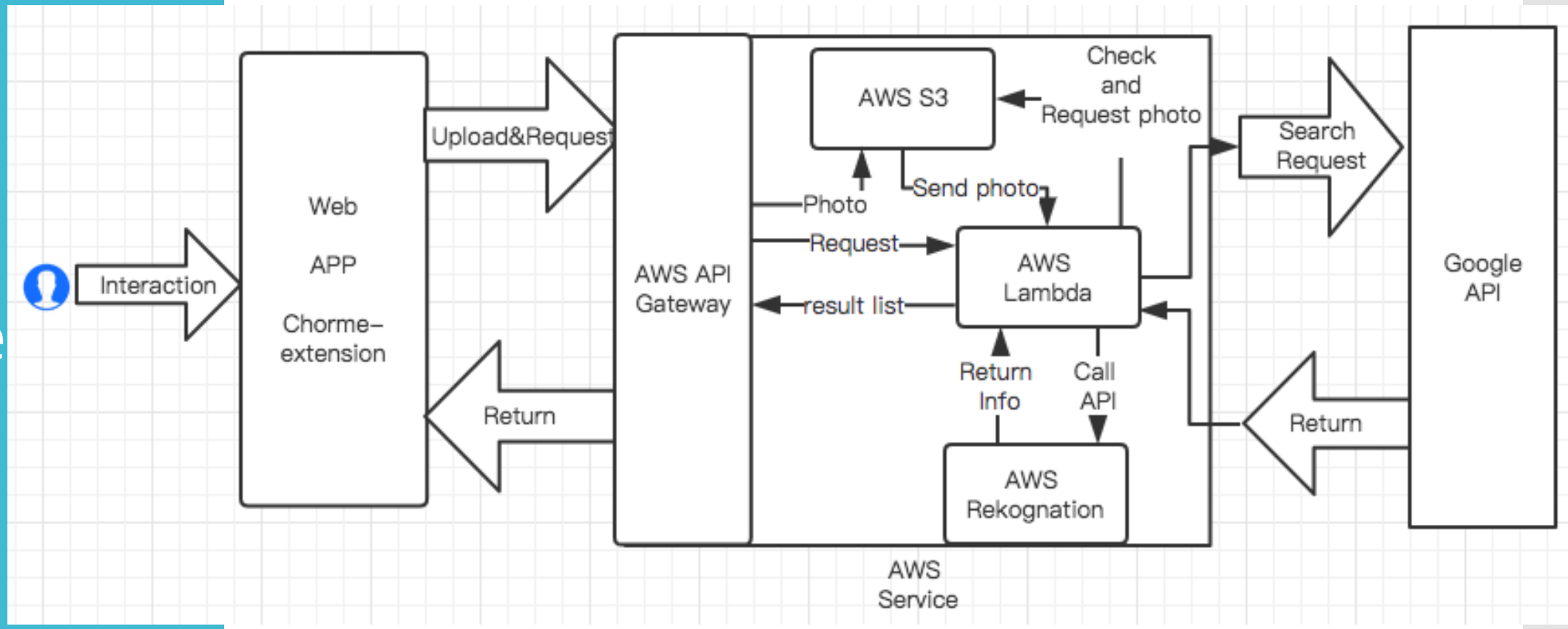
Code Structure



System Structure (in AWS)



System Structure



Advantages

Disadvanteges

* Feed the need of searching persons by picture
* Easy to use, enough information
* Robust with AWS services
* * Not convenient to get pictures to upload
* * No specific searching

Prototype

Q&A

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