Currency Trading System

Group Member: Dawei He, Haoxiang Yin, Yufei Liu, Tao Yan

Overall Structure

PART 1

Currency Trading
System

Front End

PART 2

AWS Service PART 3



Overall Structure



Overall Architecture

Currency Trading System

Data





































EventBridge

AWS Lambda

DynamoDB

Forecast

S3 Bucket

EC2

RDS

API Gateway

Amazon Lex

Training Pipeline

CloudWatch





































































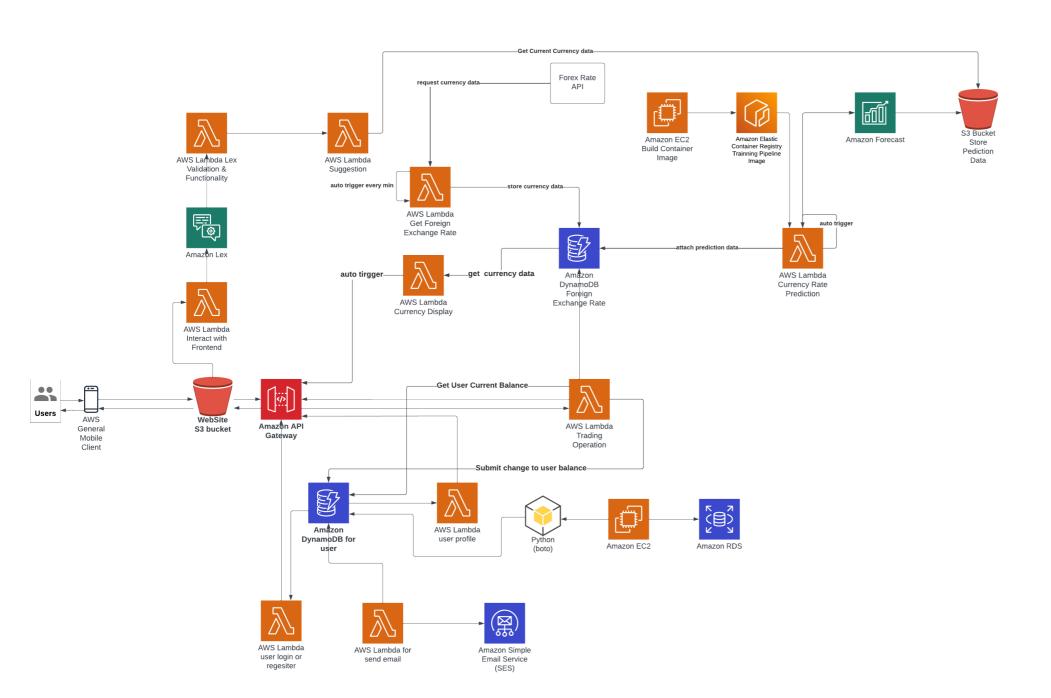












AWS Lambda

DynamoDB

Forecast

S3 Bucket

API Gateway

EC2

Amazon Lex

RDS

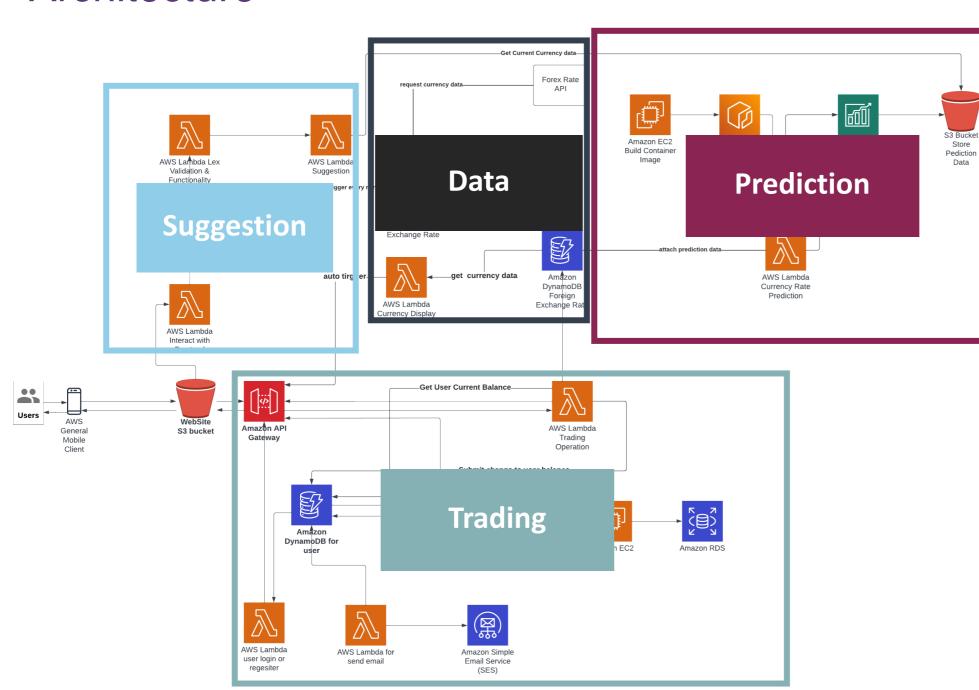
SES

Build Container

EventBridge

Training Pipeline

CloudWatch



AWS Lambda

DynamoDB

Forecast

S3 Bucket

API Gateway

EC2

Amazon Lex

RDS

SES

Build Container

EventBridge

Training Pipeline

CloudWatch

Scalable Real-time

High Availability High Reliability



DynamoDB

Forecast

S3 Bucket

API Gateway

EC2

Amazon Lex

RDS

SES

Build Container

EventBridge

Training Pipeline































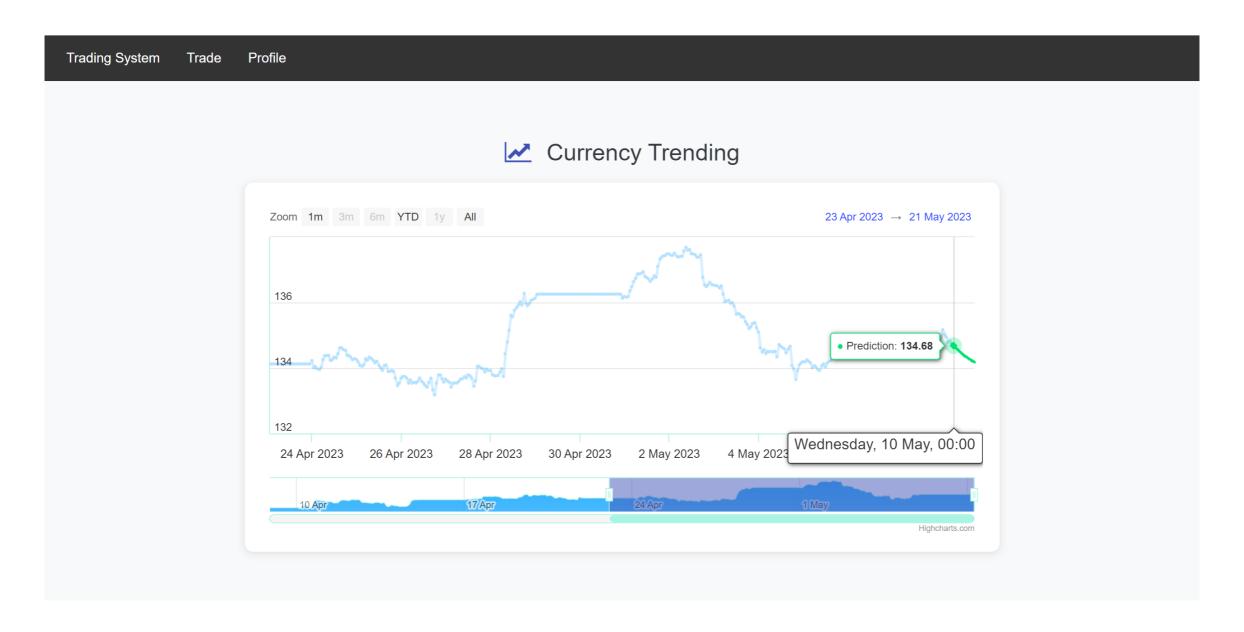
Trading System Trade Profile

NAME	PRICE	TODAY'S HIGH	TODAY'S LOW
JPY	134.84780	135.18043	133.99647
EUR	0.90591	0.90767	0.90553
CHF	0.88904	0.89106	0.88885
CAD	1.33750	1.33862	1.33669
AUD	1.47785	1.48357	1.47036
HKD	7.84596	7.84824	7.84233
CNY	6.91443	6.91801	6.90640
GBP	0.79085	0.79194	0.79066

Chat With Our ML Chatbot

Hi! How can I help you?

Type your message... Send ×



Trading System Trade Profile **Currency Trading Currency Balance** To: **USD:** 10603.92 **EUR:** 888.00 CHF (CHF) **JPY:** 1009252.00 From: **CNY:** 2006.77 EUR (EUR) **AUD:** 0.00 **CAD:** 0.00 2423 CHF: 233.00 **GBP:** 233.00 2468.48 **HKD:** 466.00 Exchange

Trading System Trade Profile Sign In Sign Up

Trading System Trade Profile Sign In Sign Up

Username:

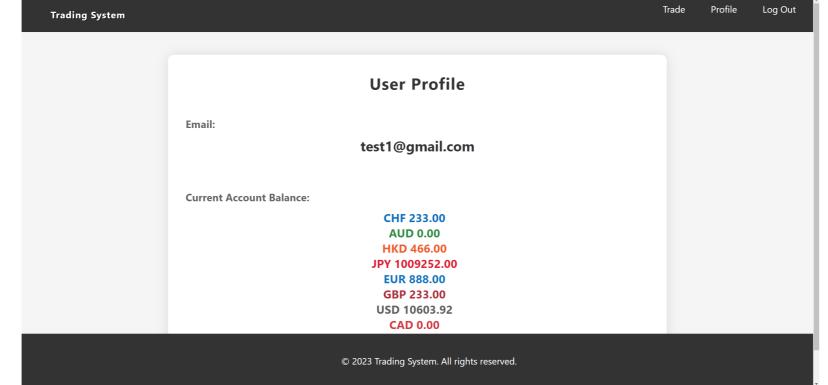
Emait:

Password:

Sign In Sign Up

Cloud Computing 6868 Project

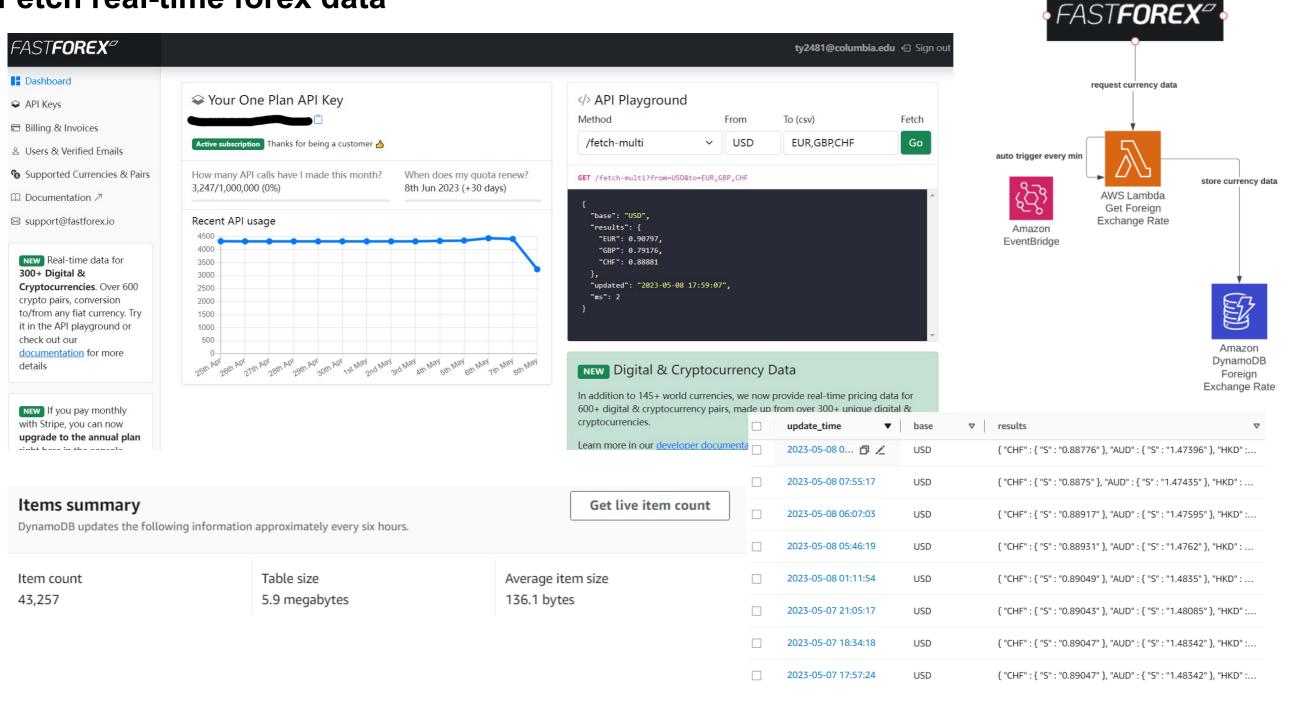
Cloud Computing 6868 Project



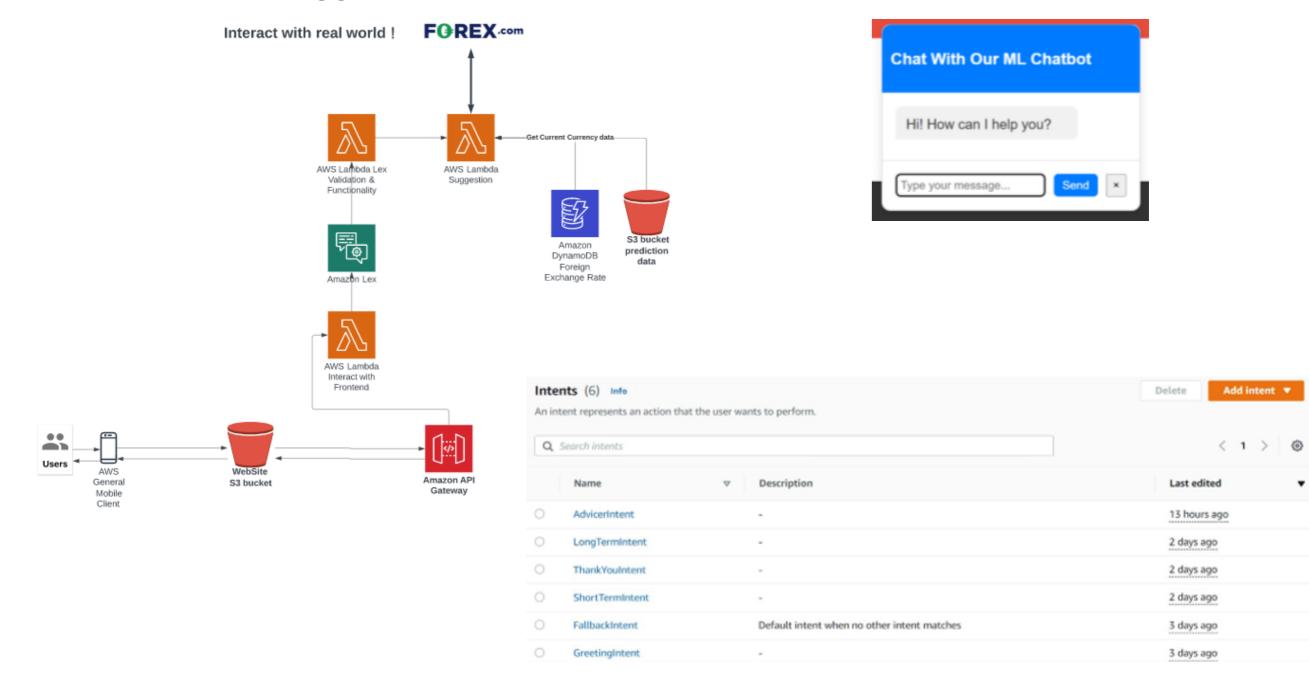


AWS Services

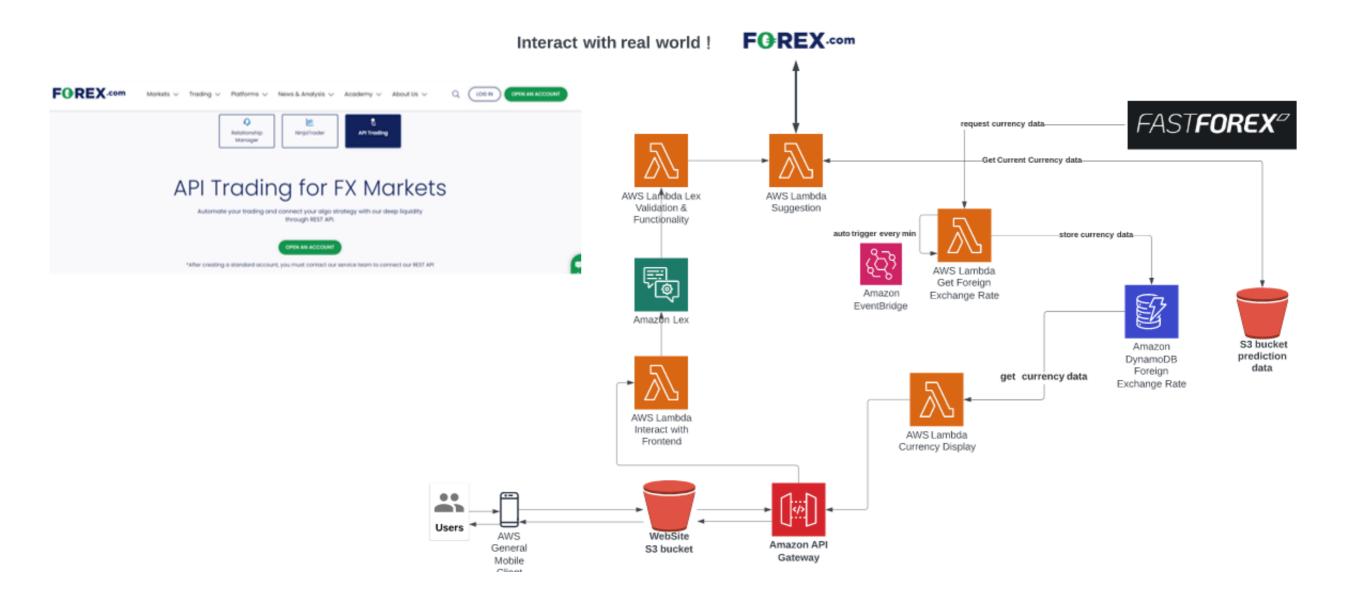
Fetch real-time forex data



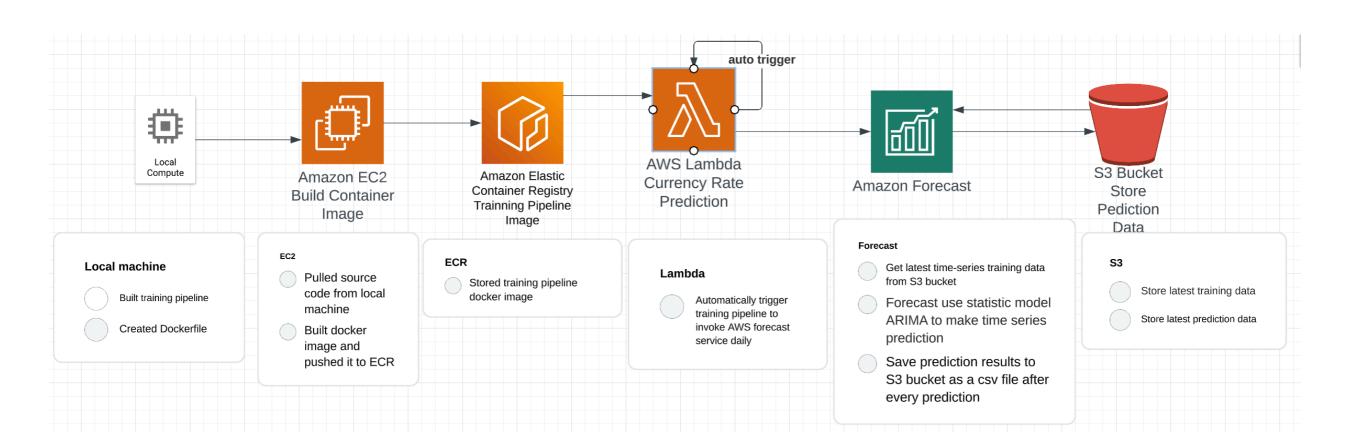
Provide investment suggestions



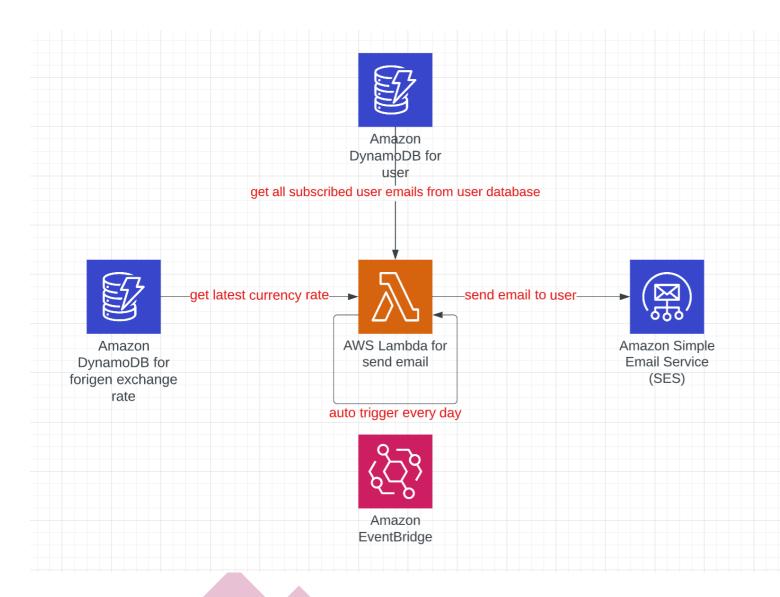
Offer virtual trading and real trading



Prediction



SES Service



Email example:

Today's currency update

To: yl5099@columbia.edu

Here's your daily currency update:

JPY 134.73738

EUR 0.90539

CHF 0.88884

CAD 1.33704

AUD 1.47542

HKD 7.84594

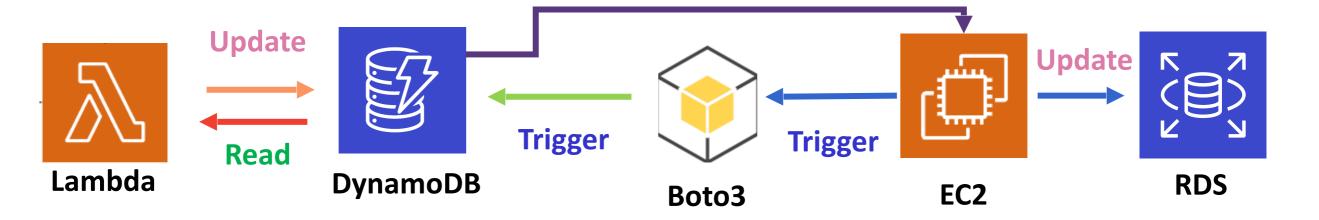
CNY 6.91314

GBP 0.79042.



User Data Backup

Periodically Update



Component

User Data





Q&A