Fictional Use Case: Automated delivery of FX Data

Story:

Calibre client has asked for FX data to be sourced from:

[https://eodhistoricaldata.com/knowledgebase/list-supported-currencies/](http://email.hirer.s.seek.com.au/wf/click?upn=wGmvgqELyw9EjocfjCaUq-2FJNlU-2By72ZrQQrqoCcoGi29S0ZmtOCAOrdclFggE2gB6eLkX0x3aN-2BO7pRlGKQkuM49caoZXQOTwW8HOUhT1rA-3D_0cZ00VWE165cZtXQWujY-2FKO9Qi2gjbPc8AZUHQKkm5pTVkkvKU3thzVPSCIPAwHYFv2A9Nh-2BoSa8WWqQsC275wWGcTaL0kTAzrFC8a1Zrd-2FzGFTiNsY8a-2BUWr0nwriiA0QvQp6AFJWBEIt1B5ZWsdqv94Mt2jcjxIfNzV6F3nXdbYsSjAvj4FDAsJX-2BhDWx3VLqpi9MQUnlchzenkdOj-2F1Kww719Z1WQbTTsaSiFkqsiDmrsiYnksfnMTweZM3FeiZIgXv1j2v1KBzuwV8Mt-2Fg-3D-3D)

and delivered as an email file attachment at 8am, 12pm and 4pm each day.

The FX rates of interest are AUDUSD, AUDNZD, AUDHKD, AUDKRW and AUDJPY

The email file attachment will have:

* a filename of obsval\_YYYYMMDD\_HHMM.csv e.g. obsval\_20191015\_0800.csv
* a header row of FOREX, VALUE
* a row for each FX pair e.g. AUDUSD, .65

Steps

Flow

1)Get real time exchange rate for USD, NZD, HKD, KRW, JPY

2)Create CSV file with

name :obsval\_YYYYMMDD\_HHMM.csv

Header: FOREX , VALUE

3)Send email to client with file attached

Development Steps

Create Scheduler task which has following steps

1)Get required exchange rates for desired countries

* Read country code list from application.properties
* Call rest service to fetch exchange data from <https://eodhistoricaldata.com/knowledgebase/list-supported-currencies/>

2)Create attachment as CSV file with FX data

3)Send Email to client

* Read client email from application properties
* Set Host and sendemail same as AdminEmail property set at application.properties
* Read all related email properties from application.properties