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## app: multiccy account reporting

#Cloud #AWS #AWSALB #AWSCognito #Docker #Grails #WebixJs #Neo4j #ExternalAPI #AWSEC2  
#FullStackDevelopment #ValueAtRisk #FX

### Multicurrency Account Manager + Risk

- a web application for consolidated reporting on your multi-currency bank accounts - with Value-at-Risk.
- [Live](#)  - *this website is available on Fridays and Saturdays from 03:00 to 15:00 [UTC](#)* 
- Full-stack development
- self-registration required
- tech stack:
  - AWS ALB-Cognito integration (OAuth2 OIDC)
  - [Webix.js](#) 
  - [Grails 4](#) 
  - [ECB API](#)  for FX rates (for VaR, time-series are retrieved from Yahoo Finance)
  - Neo4j
  - Docker
  - AWS EC2
- [GitHub source code](#) 
- [UX diagram](#)
- [blueprints](#)
- [detailed AUTH sequence diagram](#)

### key requirements this application meets

- functional
  - the user must register and login to work on personal data
  - the user can perform data entry by inserting account names, account currencies, date, account balance at date
  - the user can import/export the full set of personal data
  - the user can see the totals by date and currency
  - the user can see the totals by date (in base currency)
  - the user can see the date-to-date differences in base currency
  - the user can see the 1-month Value-at-Risk by account currency, computed in base currency on historical rates
  - the consolidated reporting ('base currency') is in EUR

- non-functional
  - the ccy/EUR rates are automatically retrieved behind the scenes and cached
- technical
  - the communication must be secure (https/TLS)

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