FINESTMEDIA Home Task

This document can bee used to understand the UI at a high level.

Login Screen: The default username and password: john/john

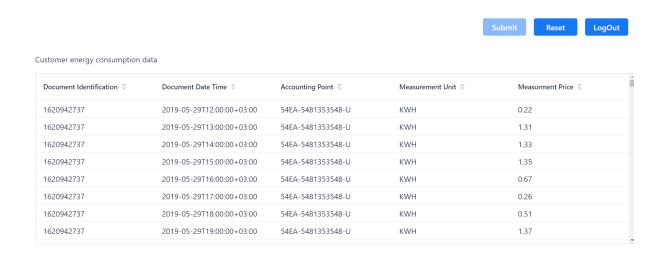
Energy Consumption Dashboard

This dash board UI tool can be used to monitor the energy consumption with respect to price for a specific.



Main UI:

Data is fetched from the back end loaded in H2 database and eventually used to populate the form.



Customer energy consumption data

Document Identification \$	Document Date Time 💠	Accounting Point \$	Measurement Unit 💠	Measurment Price 💠
1620942737	2019-05-30T21:00:00+03:00	54EA-5481353548-U	KWH	0.63
1620942737	2019-05-30T22:00:00+03:00	54EA-5481353548-U	KWH	0.68
1620942737	2019-05-30T23:00:00+03:00	54EA-5481353548-U	KWH	1.38
1620942737	2019-05-31T00:00:00+03:00	54EA-5481353548-U	KWH	0.92
1620942737	2019-05-31T01:00:00+03:00	54EA-5481353548-U	KWH	1.21
1620942737	2019-05-31T02:00:00+03:00	54EA-5481353548-U	KWH	0.44
1620942737	2019-05-31T03:00:00+03:00	54EA-5481353548-U	KWH	1.35
1620942737	2019-05-31T04:00:00+03:00	54EA-5481353548-U	KWH	0.21
1620042737	2019-05-31T05-00-00±03-00	5/15/12/12/52/5/12	K/V/H	0.10



Followed best practices in terms of design and Java concepts.

Assumptions:

- ✓ Maximum price value is 5.0
- ✓ Price value can never be negative for which currently a dialog pop is shown.
- ✓ Currently there is no security in the tool which can be taken as improvement for future.
- ✓ H2 data bases is used to load the initial seed data after parsing the xml received from the end point.
- ✓ Caching has been used for increasing performance.
- ✓ Vaadin UI is used for quick development.
- ✓ Unit testing is done in addition to application testing.