

FINESTMEDIA Home Task

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

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

Energy Consumption Dashboard

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

Log in

Username

john

Password

....



Log in

[Forgot password](#)

Main UI:

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

Submit

Reset

LogOut

Customer energy consumption data

Document Identification	Document Date Time	Accounting Point	Measurement Unit	Measurement Price
1620942737	2019-05-29T12:00:00+03:00	54EA-5481353548-U	KWH	0.22
1620942737	2019-05-29T13:00:00+03:00	54EA-5481353548-U	KWH	1.31
1620942737	2019-05-29T14:00:00+03:00	54EA-5481353548-U	KWH	1.33
1620942737	2019-05-29T15:00:00+03:00	54EA-5481353548-U	KWH	1.35
1620942737	2019-05-29T16:00:00+03:00	54EA-5481353548-U	KWH	0.67
1620942737	2019-05-29T17:00:00+03:00	54EA-5481353548-U	KWH	0.26
1620942737	2019-05-29T18:00:00+03:00	54EA-5481353548-U	KWH	0.51
1620942737	2019-05-29T19:00:00+03:00	54EA-5481353548-U	KWH	1.37

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
1620942737	2019-05-31T05:00:00+03:00	54EA-5481353548-U	KWH	0.19



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.