

Relatório Lizard

Análise da ferramenta lizard nos arquivos .tsx

```
samuel@samuel-ubuntu:~/Downloads/TP-ENGSOFT2-StockMarketSimulator-main/src$ find . -name "*.tsx" -exec lizard {} +
=====
NLOC    CCN    token  PARAM  length  location
-----
     9     1     44     0       9 Router@5-13@./router.tsx
     7     1     17     0       7 App@4-10@./App.tsx
    17     1    162     0      18 TradingOrderMatcher@7-24@./components/trading-order-matcher.tsx
    30     1    198     1      30 OrdersTable@9-38@./components/components/orders-table.tsx
    33     1    292     6      41 CreateOrderForm@18-58@./components/components/create-order-form.tsx
6 file analyzed.
=====
NLOC    Avg.NLOC  AvgCCN  Avg.token  function_cnt  file
-----
    13         9.0      1.0      44.0         1  ./router.tsx
    11         0.0      0.0       0.0         0  ./index.tsx
    10         7.0      1.0      17.0         1  ./App.tsx
    22        17.0      1.0     162.0         1  ./components/trading-order-matcher.tsx
    36        30.0      1.0     198.0         1  ./components/components/orders-table.tsx
    48        33.0      1.0     292.0         1  ./components/components/create-order-form.tsx
=====
No thresholds exceeded (cyclomatic_complexity > 15 or length > 1000 or nloc > 1000000 or parameter_count > 100)
=====
Total nloc  Avg.NLOC  AvgCCN  Avg.token  Fun Cnt  Warning cnt  Fun Rt  nloc Rt
-----
    140      19.2      1.0     142.6      5         0      0.00  0.00
```

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```
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=====
NLOC    CCN    token  PARAM  length  location
-----
     1     1     8      0       1 (anonymous)@11-11@./services/create-order.ts
     1     1     8      0       1 (anonymous)@14-14@./services/create-order.ts
    15     3    90      0      15 createOrder@6-20@./services/create-order.ts
    26     7   142      0      26 matchOrder@22-47@./services/create-order.ts
5 file analyzed.
=====
NLOC    Avg.NLOC  AvgCCN  Avg.token  function_cnt  file
-----
    44        10.8      3.0      62.0         4  ./services/create-order.ts
     8         0.0      0.0       0.0         0  ./interfaces/index.ts
    10         0.0      0.0       0.0         0  ./interfaces/order/order.ts
     3         0.0      0.0       0.0         0  ./interfaces/order/create-order-attributes.ts
     5         0.0      0.0       0.0         0  ./interfaces/order/order-side.ts
=====
No thresholds exceeded (cyclomatic_complexity > 15 or length > 1000 or nloc > 1000000 or parameter_count > 100)
=====
Total nloc  Avg.NLOC  AvgCCN  Avg.token  Fun Cnt  Warning cnt  Fun Rt  nloc Rt
-----
     70      10.8      3.0      62.0      4         0      0.00  0.00
```

As três funções mais complexas que concluímos pela análise do lizard foram:

1 - CreateOrderForm (create-order-form.tsx): Essa é a maior função do sistema. Possui 33 linhas e 292 palavras. Além disso, é a função com maior quantidade de parâmetros (6).

2 - createOrder (create-order.ts): é uma função que possui complexidade ciclomática maior do que a média das outras.

3 - matchOrder (create-order.ts): é a função que possui maior complexidade ciclomática (CCN = 7).