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ubuntu@FC19L-WIN356: ~/Desktop/webDev/stonkbuddies$ npm test
> sonpari@1.0.0 test /home/ubuntu/Desktop/webDev/stonkbuddies
> jest

console.log
  mongodb connected, host: itacluster-shard-00-00.pzosv.mongodb.net
    at connectDB (config/db.js:11:17)

console.log
  mongodb connected, host: itacluster-shard-00-02.pzosv.mongodb.net
    at connectDB (config/db.js:11:17)

PASS test/index.test.js
  User tests
    ✓ Insert a user into database (1242 ms)
    ✓ fetch a single user with correct email id (24 ms)
    ✓ fetch a single user with incorrect email id (23 ms)
    ✓ fetch all users (40 ms)
  Group tests
    ✓ Insert a new group into database (1290 ms)
    ✓ fetch a group with correct title (16 ms)
    ✓ fetch a group with incorrect title (26 ms)
    ✓ fetch all groups (41 ms)
    ✓ add a stock to an existing group (83 ms)
  API testing
    ✓ fetch data with binance api (10 ms)

Test Suites: 1 passed, 1 total
Tests: 10 passed, 10 total
Snapshots: 0 total
Time: 3.427 s, estimated 9 s
Ran all test suites.
(base) ubuntu@FC19L-WIN356:~/Desktop/webDev/stonkbuddies$
```

UNIT TESTING

PERFORMANCE ESTIMATION OF EFFORT USING FP ESTIMATION:

FP Estimation = UAF * CAF = UAF * (0.65 + (0.01 * Σfi))

EI = Number of external inputs (4)

EO = Number of external outputs (4)

ILF = Internal Logic Files (1)

EIF = External Interface Files (0)

EQ = External Inquiries (1)

$$\begin{aligned} \text{UAF} &= (\text{EI} * 3) + (\text{EO} * 4) + (\text{ILF} * 7) + (\text{EIF} * 5) + (\text{EQ} * 3) \\ &= 12 + 16 + 7 + 0 + 3 = 38 \end{aligned}$$

Where $\sum(f_i)$ is the sum of all 14 questionnaires and shows the complexity adjustment value/ factor-CAF (where i ranges from 1 to 14).

F_i distribution = 4, 1, 3, 2, 2, 2, 4, 3, 2, 4, 3, 3, 1, 4

$\sum f_i = 38$

$CAF = 0.65 + 0.38 = 1.03$

Estimation of effort using FP Estimation

= $UAF \times CAF$

= 38×1.03

= 39.14