

Milestone 4

PREPARED FOR

SW Engineering CSC648/848

PREPARED BY

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April 15, 2024

I. Unit Test

UNIT TESTING (Back-end)

```
PS C:\Users\jacky\Desktop\csc648-01-sp24-csc-01-team04\backend> npm test

> test
> jest

console.log
  Running Server as DEV: http://localhost:8000

    at Object.log (server.js:41:11)

console.log
  Server is listening at http://8000

    at Server.log (server.js:505:11)

PASS ./server.test.js
  POST /login
    ✓ Successful Login Status (241 ms)
    ✓ Successful Login Body Check (90 ms)
    ✓ Error Handling Check (5 ms)
  POST /register
    ✓ Successful Registration Status (96 ms)
    ✓ Account already made (9 ms)
    ✓ Error Handling Check (5 ms)
  POST /session
    ✓ Successful Session Status (8 ms)
    ✓ Session no longer valid (6 ms)
    ✓ Error Handling Check (7 ms)
  POST /profile
    ✓ Successful Profile Status (9 ms)
    ✓ Successful Profile Body (6 ms)
    ✓ Invalid User ID (6 ms)
    ✓ Error Handling Check (5 ms)
  POST /profile/edit
    ✓ Successful Profile Edit Status (7 ms)
    ✓ Error Handling Check (5 ms)
```

```
POST /linkAccounts
  ✓ Successful AccountLink Status - User is Caregiver (13 ms)
  ✓ Successful AccountLink Status User is Patient (11 ms)
  ✓ Invalid email status (8 ms)
  ✓ Same Account Type Status (11 ms)
  ✓ Error Handling Check (6 ms)
POST /showpatients
  ✓ responds with 200 status (6 ms)
  ✓ response body includes expected fields for first patient (9 ms)
POST /showcaregivers
  ✓ should return caregiver details (9 ms)
POST /addmedicine
  ✓ should return a success message after adding medicine (9 ms)
POST /viewmedicine
  ✓ responds with 200 status (8 ms)
  ✓ response body includes user_id and session_id (7 ms)
POST /deletemedicine
  ✓ Successful Delete Status (9 ms)
  ✓ Unknown Prescription ID Status (6 ms)
  ✓ Error Handling Check (6 ms)
POST /emergencycontact/add
  ✓ Successful New Add Status (10 ms)
  ✓ Successful Update Add Status (10 ms)
  ✓ Error Handling Check (4 ms)
POST /emergencycontact
  ✓ should return user emergency contact details (9 ms)
POST /logout
  ✓ Successful Logout Status (11 ms)
  ✓ Unknown Session ID Status (9 ms)
  ✓ Error Handling Check (5 ms)

Test Suites: 1 passed, 1 total
Tests:       36 passed, 36 total
Snapshots:   0 total
Time:        2.405 s, estimated 13 s
Ran all test suites.
```

Npm test --coverage

```
PS C:\Users\jacky\Desktop\csc648-01-sp24-csc-01-team04\backend> npm test --coverage
```

```
> test
```

```
> jest --coverage
```

```
console.log
```

```
Running Server as DEV: http://localhost:8000
```

```
    at Object.log (server.js:41:11)
```

```
console.log
```

```
Server is listening at http://8000
```

```
    at Server.log (server.js:505:11)
```

```
PASS ./server.test.js
```

```
POST /login
```

```
✓ Successful Login Status (237 ms)
```

```
✓ Successful Login Body Check (104 ms)
```

```
✓ Error Handling Check (5 ms)
```

```
POST /register
```

```
✓ Successful Registration Status (100 ms)
```

```
✓ Account already made (7 ms)
```

```
✓ Error Handling Check (4 ms)
```

```
POST /session
```

```
✓ Successful Session Status (7 ms)
```

```
✓ Session no longer valid (7 ms)
```

```
✓ Error Handling Check (8 ms)
```

```
POST /profile
```

```
✓ Successful Profile Status (8 ms)
```

```
✓ Successful Profile Body (7 ms)
```

```
✓ Invalid User ID (6 ms)
```

```
✓ Error Handling Check (5 ms)
```

```

POST /profile/edit
  ✓ Successful Profile Edit Status (9 ms)
  ✓ Error Handling Check (5 ms)
POST /linkAccounts
  ✓ Successful AccountLink Status - User is Caregiver (13 ms)
  ✓ Successful AccountLink Status User is Patient (12 ms)
  ✓ Invalid email status (6 ms)
  ✓ Same Account Type Status (11 ms)
  ✓ Error Handling Check (4 ms)
POST /showpatients
  ✓ responds with 200 status (9 ms)
  ✓ response body includes expected fields for first patient (8 ms)
POST /showcaregivers
  ✓ should return caregiver details (11 ms)
POST /addmedicine
  ✓ should return a success message after adding medicine (11 ms)
POST /viewmedicine
  ✓ responds with 200 status (7 ms)
  ✓ response body includes user_id and session_id (9 ms)
POST /deletemedicine
  ✓ Successful Delete Status (12 ms)
  ✓ Unknown Prescription ID Status (6 ms)
  ✓ Error Handling Check (4 ms)
POST /emergencycontact/add
  ✓ Successful New Add Status (10 ms)
  ✓ Successful Update Add Status (8 ms)
  ✓ Error Handling Check (7 ms)
POST /emergencycontact
  ✓ should return user emergency contact details (9 ms)

```

```

POST /logout
  ✓ Successful Logout Status (9 ms)
  ✓ Unknown Session ID Status (7 ms)
  ✓ Error Handling Check (5 ms)

```

| File | % Stmts | % Branch | % Funcs | % Lines | Uncovered Line #s |
|-----------|---------|----------|---------|---------|--|
| All files | 69.75 | 74.34 | 85.71 | 70 | |
| db.js | 50 | 25 | 100 | 50 | 9-18 |
| server.js | 71.06 | 75.67 | 85.71 | 71.32 | ...411-415,444-448,460,469-473,497-498,522-528,541-545,560-561,573-578 |

```

Test Suites: 1 passed, 1 total
Tests:       36 passed, 36 total
Snapshots:   0 total
Time:        3.391 s
Ran all test suites.

```

- Analyze functional and statement test coverage.

Functional Coverage is = 100%

Statement coverage >=71%%

The reason why the %Funcs is not at a 100% is because the red lines 411, 415, 444, 448 and etc are the alternatives of the if statements meaning that we successfully tested the if statement but the else statement "expected failed" because we forgot to write the statement in the unit test < Check server.test.js>

NOTE: server.test.js is only implemented on the dev branch of our project as of right now

2) Coding practices:

Coding Style: Java Script Standard Style

Tool to enforce: Prettier

Please list source files related to 5 P1 features which demonstrate your coding Style.

- Caregiver_dashboard.jsx
- patient_dashboard.jsx

Integration Testing Bug Tracker Link:

https://docs.google.com/spreadsheets/d/1oIcHiDkgsCvklZhi3U6LC3lt_EaGlvVHM5L7_b3_N3c/edit?usp=sharing