



Team Name: Team A

Team Members:

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Unit Testing using Jest

1. Sign In Test

- **Fail**

```
PS C:\Users\Acer\Documents\GitHub\AttendanceAppClassroomFinal\client> npm test -- SignIn.test.tsx

> client@1.0.0 test
> jest SignIn.test.tsx

FAIL src/components/__tests__/SignIn.test.tsx (8.048 s)
  SignIn Component
    ✓ renders correctly (540 ms)
    ✗ handles successful admin login (1134 ms)
    ✗ handles successful teacher login (1131 ms)
    ✓ handles successful student login (184 ms)
    ✗ shows error alert when all login attempts fail (1127 ms)
    ✓ shows unexpected error alert when a network error occurs (119 ms)
```

```
Test Suites: 1 failed, 1 total
Tests:       3 failed, 3 passed, 6 total
Snapshots:  0 total
Time:        8.184 s
Ran all test suites matching /SignIn.test.tsx/i.
```

- **Success**

```
PS C:\Users\Acer\Documents\GitHub\AttendanceAppClassroomFinal\client> npm test

> client@1.0.0 test
> jest

PASS src/components/__tests__/SignIn.test.tsx
  SignIn Component
    ✓ renders correctly (496 ms)
    ✓ handles successful admin login (186 ms)
    ✓ handles successful teacher login (184 ms)
    ✓ handles successful student login (169 ms)
    ✓ shows error alert when all login attempts fail (170 ms)
    ✓ shows unexpected error alert when an unexpected error occurs (114 ms)

Test Suites: 1 passed, 1 total
Tests:       6 passed, 6 total
Snapshots:  0 total
Time:        4.214 s, estimated 5 s
Ran all test suites.
```



2. Register Test

- Fail

```
PS C:\Users\Acer\Documents\GitHub\AttendanceAppClassroomFinal\client> npm test Register.test.tsx

> client@1.0.0 test
> jest Register.test.tsx

FAIL src/components/__tests__/Register.test.tsx (8.447 s)
  Register Component
    ✕ renders correctly with default student form (805 ms)
    ✕ shows validation error for empty fields (1043 ms)
    ✕ shows error when passwords do not match (1102 ms)
    ✕ handles successful student registration (83 ms)
    ✕ handles registration error (84 ms)
    ✕ shows error when student fields are missing (60 ms)

Test Suites: 1 failed, 1 total
Tests:        6 failed, 6 total
Snapshots:    0 total
Time:         8.649 s
Ran all test suites matching /Register.test.tsx/i.
```

- Success

```
PASS src/components/__tests__/Register.test.tsx
  Register Component
    ✓ renders correctly with default student form (404 ms)
    ✓ shows validation error for empty fields (24 ms)
    ✓ shows error when passwords do not match (33 ms)
    ✓ shows error when student fields are missing (29 ms)
    ✓ handles successful student registration (177 ms)
    ✓ handles registration error (94 ms)

Test Suites: 1 passed, 1 total
Tests:        6 passed, 6 total
Snapshots:    0 total
Time:         2.241 s, estimated 4 s
Ran all test suites matching /Register.test.tsx/i.
PS C:\Users\Acer\Documents\GitHub\AttendanceAppClassroomFinal\client>
```



3. Attendance Class

- Fail

```
PS C:\Users\Acer\Documents\GitHub\AttendanceAppClassroomFinal\client> npm test -- AttendanceClass.test.tsx
sx

> client@1.0.0 test
> jest AttendanceClass.test.tsx

FAIL src/components/__tests__/AttendanceClass.test.tsx (9.273 s)
  AttendanceClass Component
    ✓ renders correctly with loading state (1084 ms)
    ✓ displays enrolled students after loading (127 ms)
    ✗ marks a student present when check button is tapped (1082 ms)
    ✗ handles errors during data loading (1011 ms)
    ✗ handles enrollment of new students (1020 ms)
```

```
Test Suites: 1 failed, 1 total
Tests:       3 failed, 2 passed, 5 total
Snapshots:  0 total
Time:        9.472 s
```

- Success

```
Run all test suites matching /AttendanceClass.test.tsx/i.
PS C:\Users\Acer\Documents\GitHub\AttendanceAppClassroomFinal\client> npm test -- AttendanceClass.test.tsx

> client@1.0.0 test
> jest AttendanceClass.test.tsx

PASS src/components/__tests__/AttendanceClass.test.tsx
  AttendanceClass Component
    ✓ renders correctly with loading state (664 ms)
    ✓ displays enrolled students after loading (57 ms)
    ✓ marks a student present when check button is tapped (128 ms)
    ✓ handles enrollment of new students (121 ms)
    ✓ handles errors during data loading (62 ms)

Test Suites: 1 passed, 1 total
Tests:       5 passed, 5 total
Snapshots:  0 total
Time:        3.377 s, estimated 8 s
Ran all test suites matching /AttendanceClass.test.tsx/i.
PS C:\Users\Acer\Documents\GitHub\AttendanceAppClassroomFinal\client>
```



4. TeacherDash Test

- Fail

```
FAIL src/components/__tests__/TeacherDash.test.tsx (12.073 s)
TeacherDash Component
  ✓ renders loading state correctly (1632 ms)
  ✓ displays teacher data after loading (370 ms)
  ✗ handles sign out correctly (1306 ms)
  ✗ displays class data correctly (1289 ms)
  ✗ navigates to class attendance view correctly (311 ms)
```

```
Test Suites: 1 failed, 1 total
Tests:       3 failed, 2 passed, 5 total
Snapshots:   0 total
Time:        12.366 s
Ran all test suites matching /TeacherDash.test.tsx/i.
```

- Success

```
PASS src/components/__tests__/TeacherDash.test.tsx (5.943 s)
TeacherDash Component
  ✓ renders loading state correctly (1314 ms)
  ✓ displays teacher data after loading (329 ms)
  ✓ handles sign out correctly (329 ms)
  ✓ displays class data correctly (295 ms)
  ✓ navigates to class attendance view correctly (262 ms)

Test Suites: 1 passed, 1 total
Tests:       5 passed, 5 total
Snapshots:   0 total
Time:        6.096 s, estimated 8 s
Ran all test suites matching /TeacherDash.test.tsx/i.
PS C:\Users\Acer\Documents\GitHub\AttendanceAppClassroomFinal\client> |
```