BLOGGING PLATFORM

CONNECTCO

SOFTWARE ENGINEERING (IT - 314)
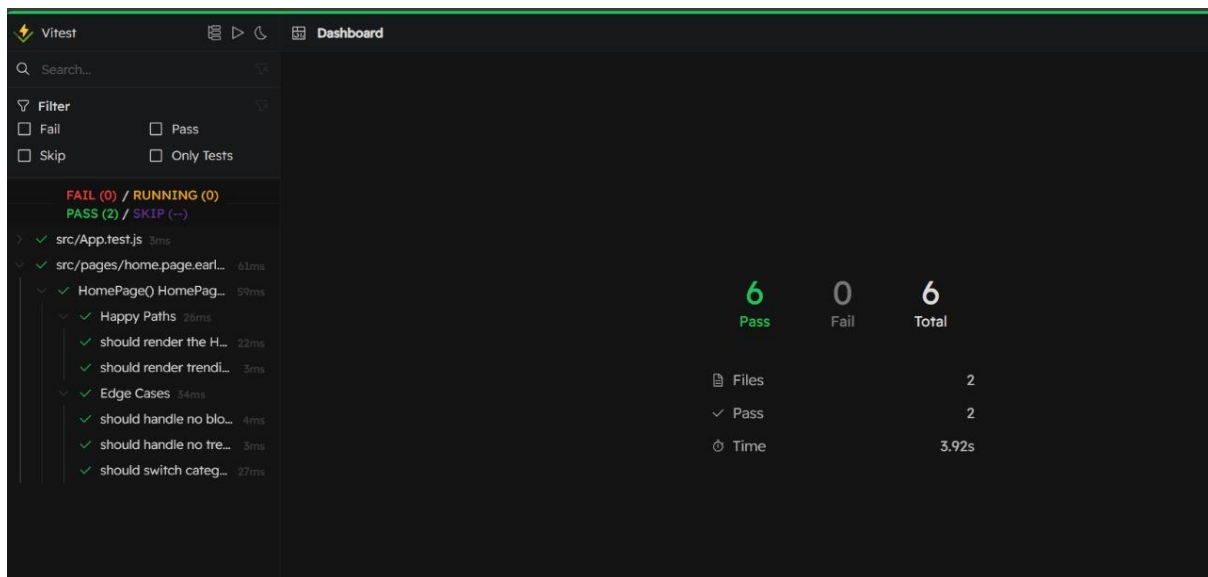
Prof. Saurabh Tiwari

Group 23

- 202201287 GHORI ZEEL JIVRAJBHAI **(Group Leader)**
- 202201291 PATEL NAISARGI NILANGBHAI
- 202201272 SIDDHANT GUPTA
- 202201322 ADITYA IYER
- 202201338 KRITARTH JOSHI
- 202201312 DESAI PRITISH
- 202201299 AKSHAT JINDAL
- 202201324 KASHYAP GAJERA
- 202201267 CHAUHAN HEMAN JASHVANTBHAI
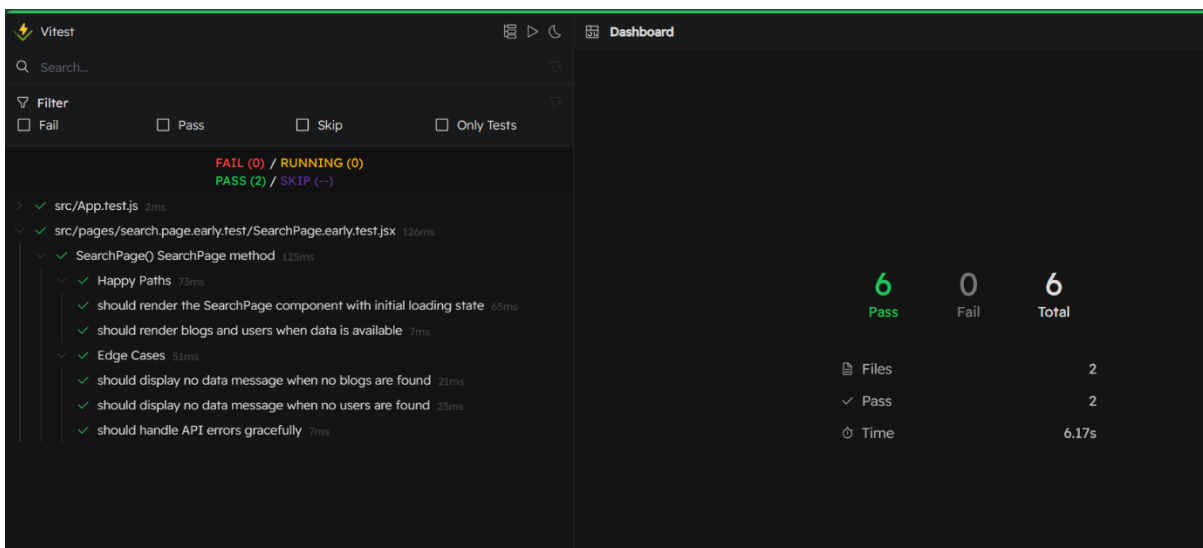- 202201265 CHAUDHARI PRACHI HASMUKHBHAI
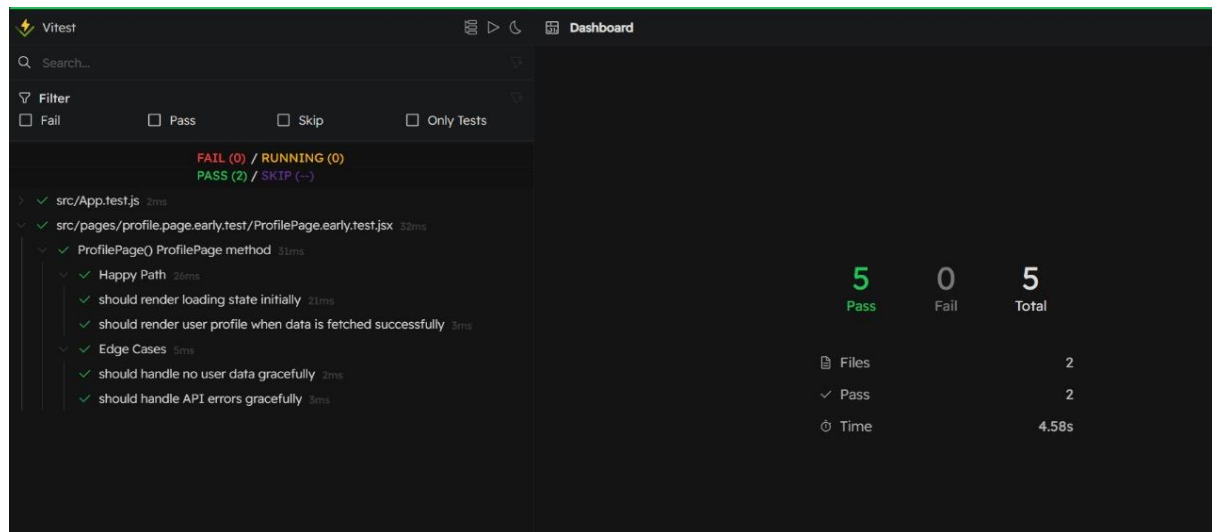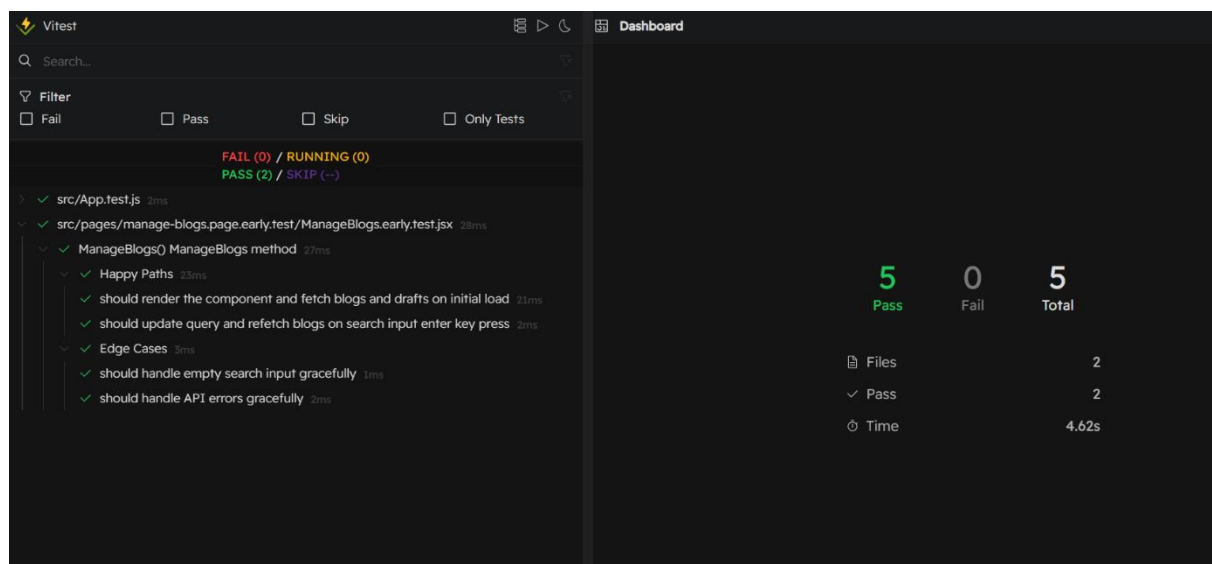
Frontend Unit Testing

Pages:

- Home Page

- Search Page

- Profile Page

- ManageBlog Page

- **Editor Pages**

- **Blog Page**

- Edit-Profile Page

- Notifications Page
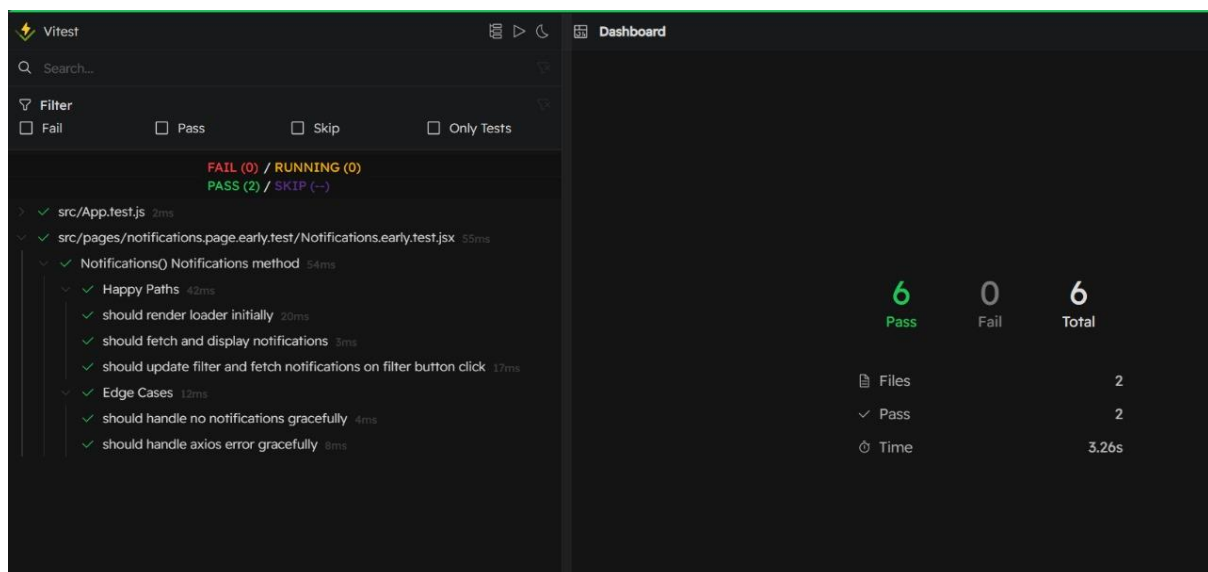
- Change_Password Page

Vitest   Dashboard

Search...

Filter

☐ Fail   ☐ Pass   ☐ Skip   ☐ Only Tests

FAIL (0) / RUNNING (0)
PASS (2) / SKIP (--)

✓ src/App.test.js 2ms
✓ src/pages/change-password.page.early.test/ChangePassword.early.test.jsx 31ms
  ✓ ChangePassword() ChangePassword method 31ms
    ✓ Happy Paths 21ms
     ✓ should successfully change password with valid inputs 21ms
    ✓ Edge Cases 9ms
     ✓ should show error if inputs are empty 3ms
     ✓ should show error if passwords do not meet criteria 5ms
     ✓ should handle server error gracefully 3ms

5   0   5
Pass   Fail   Total

📄 Files   2
✓ Pass   2
⏱ Time   3.46s

Common:

- Date : getDay

- Date : getFULLDay
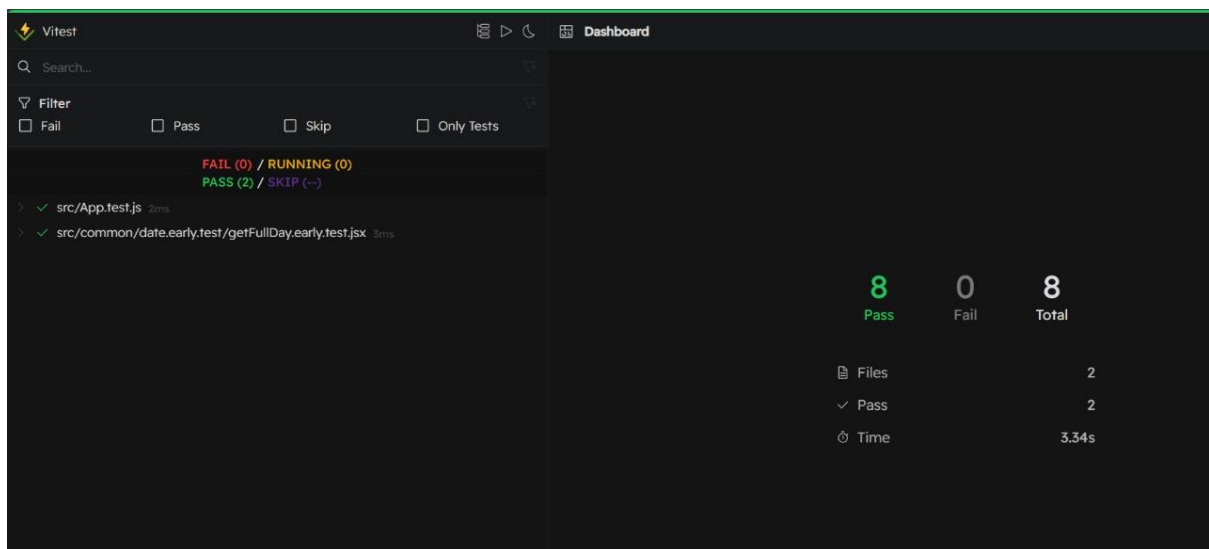
- AuthwithGoogle
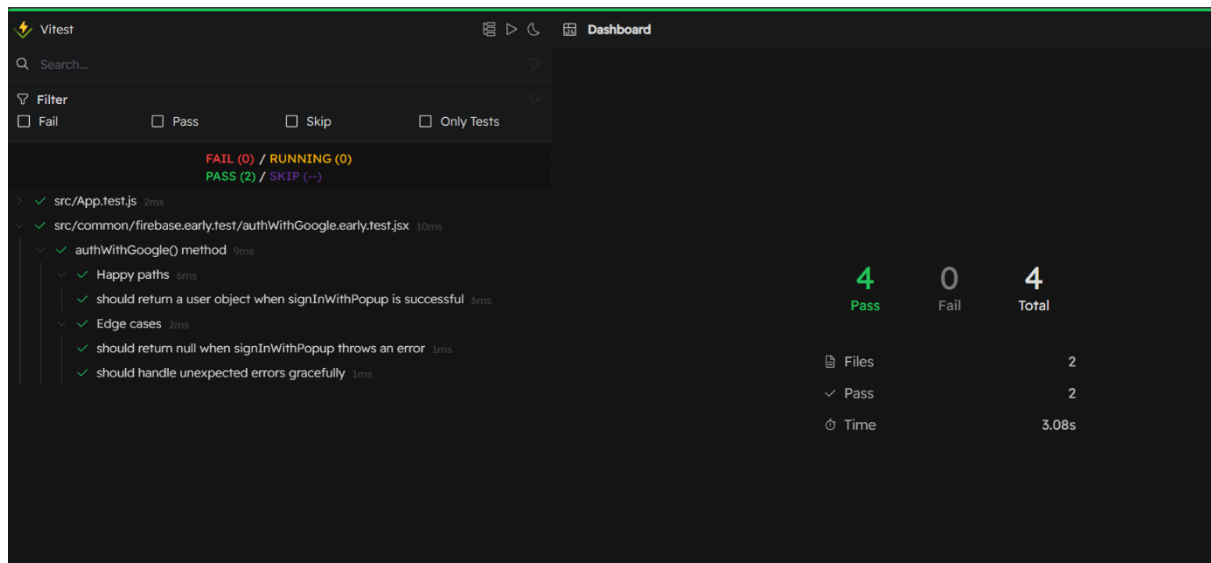
- Session: lookinsession
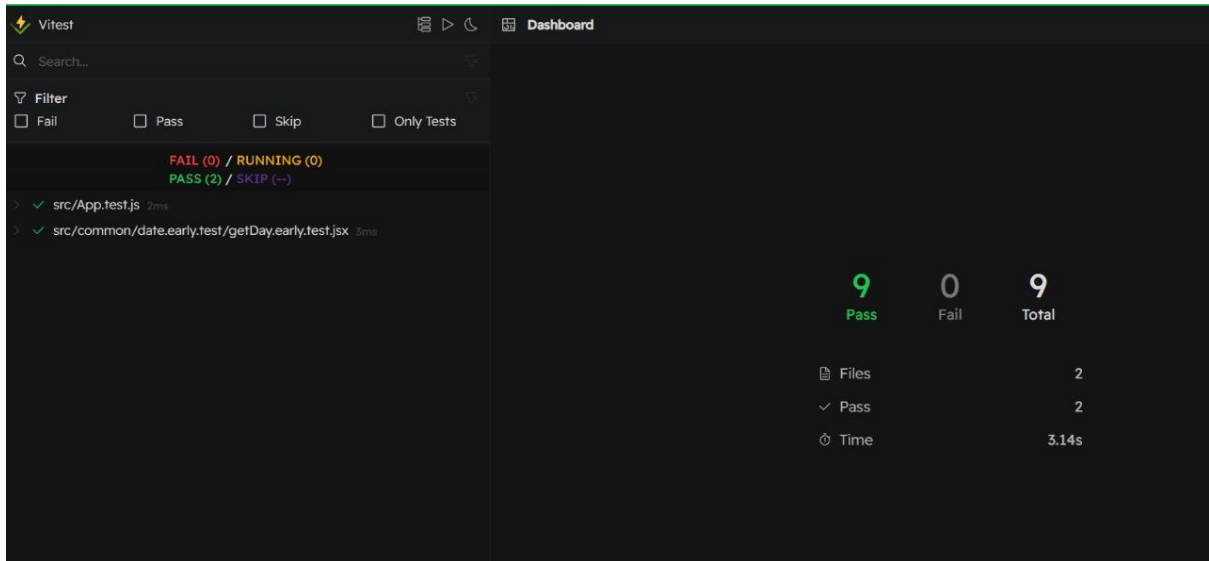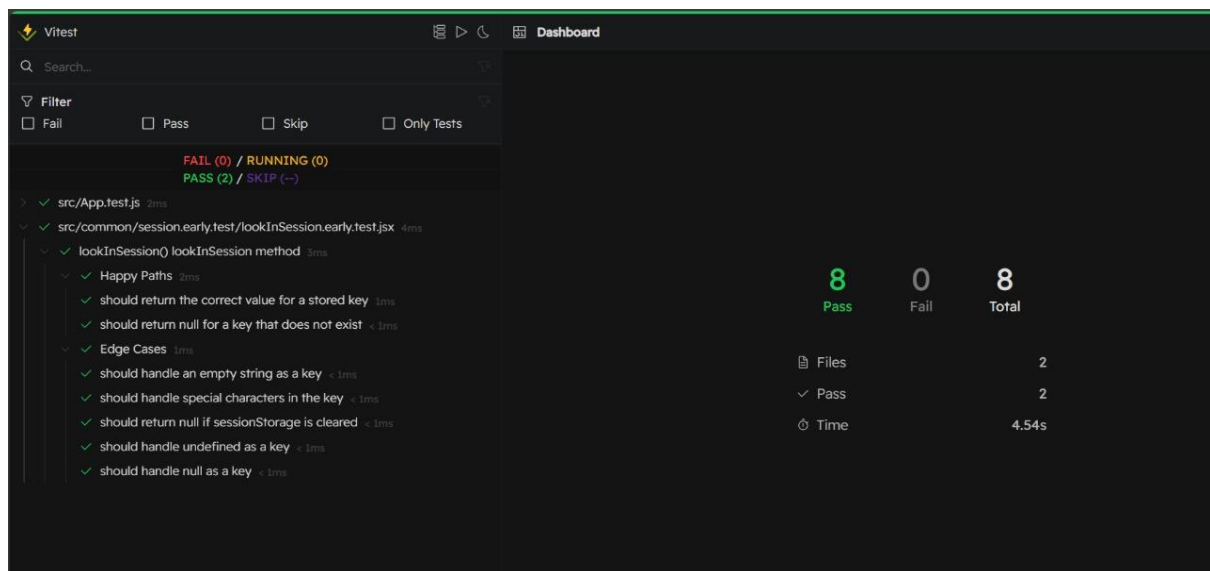
- Session : RemoveFromSession
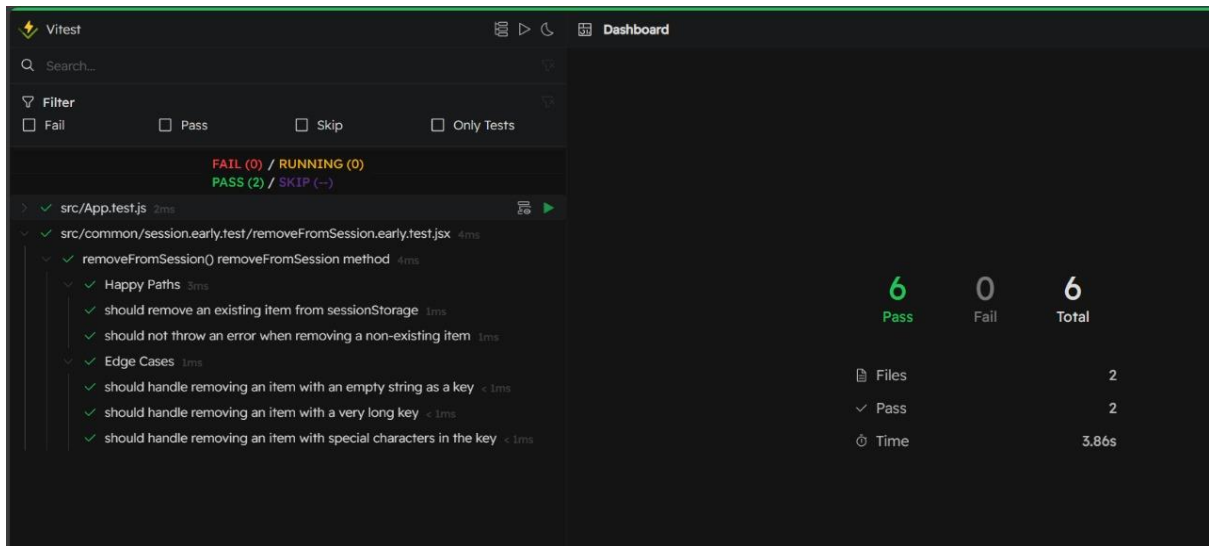
- Session: storeInSession
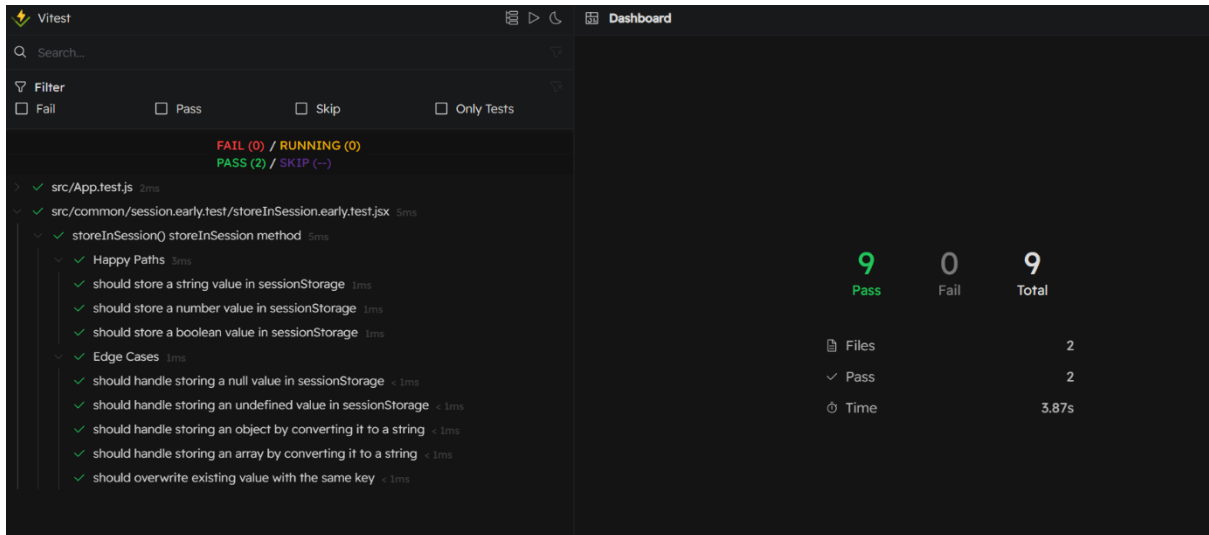
- Filter Pagination
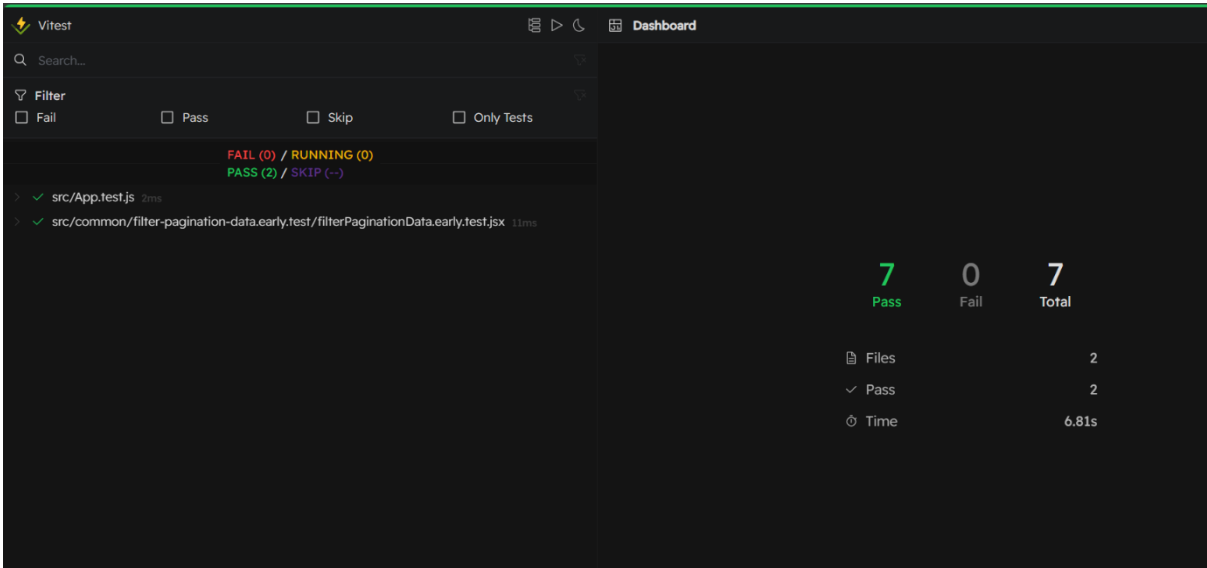
- UploadImage
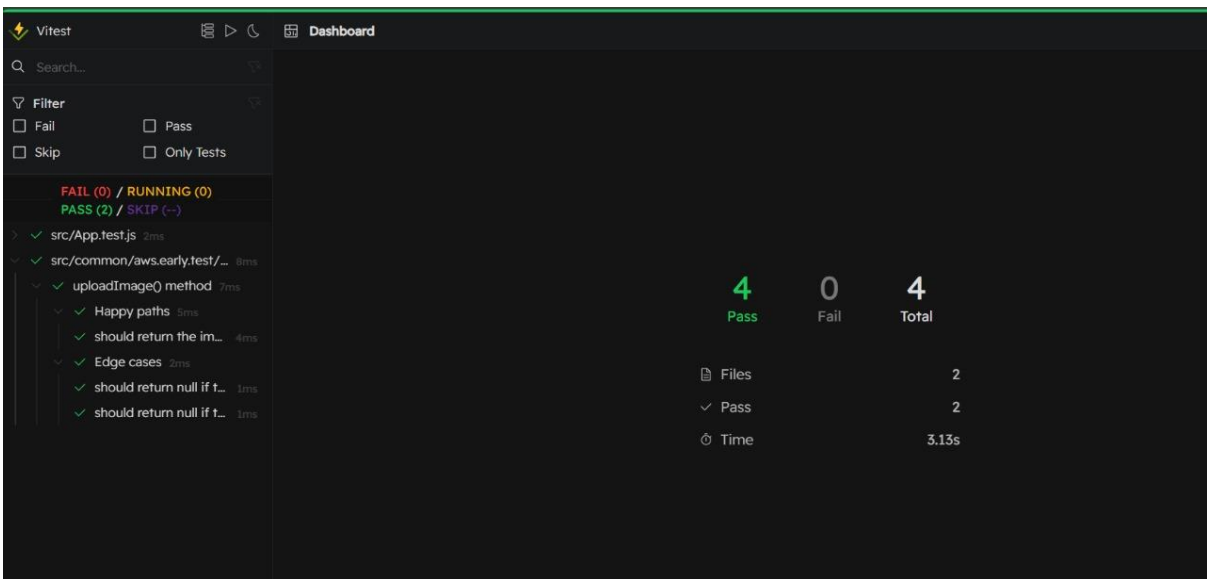
- AnimationWrapper
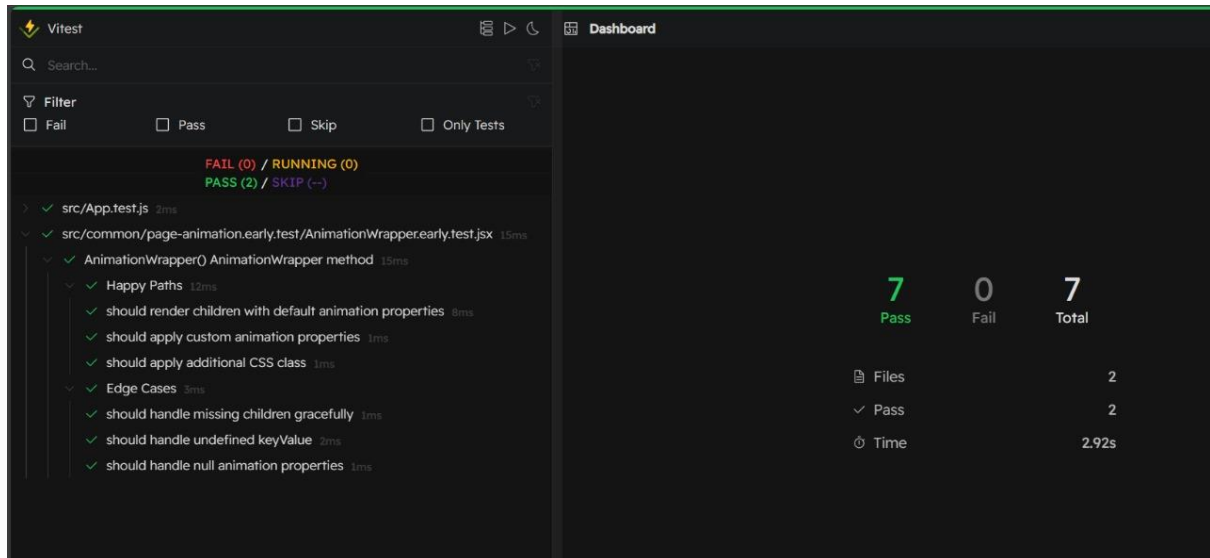
COMPONENTS

- AboutUser
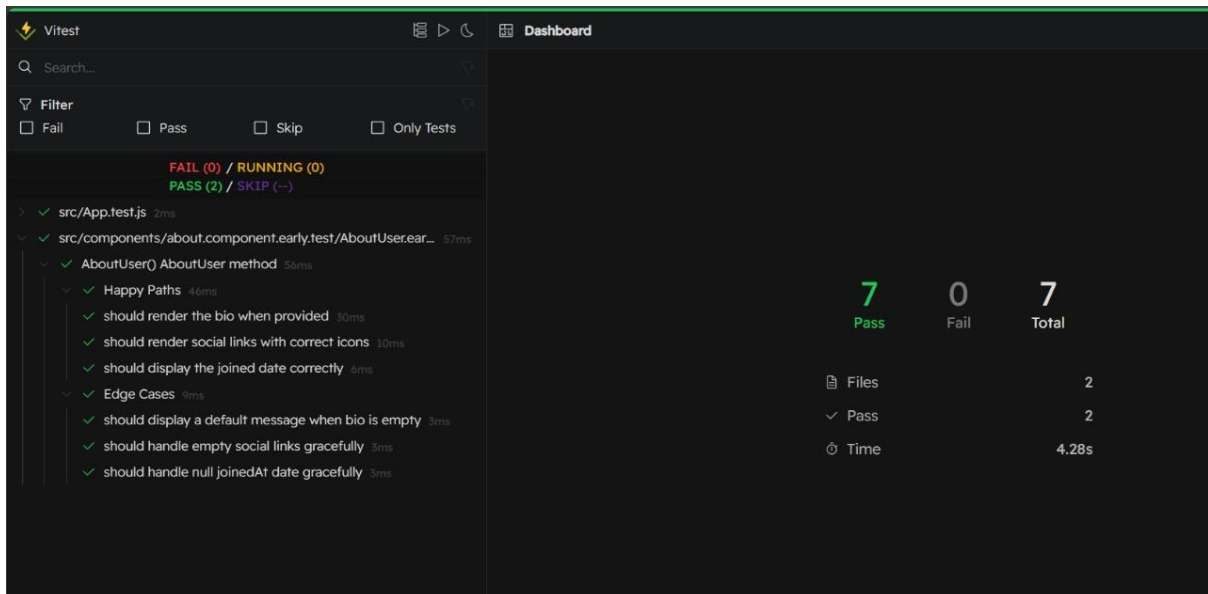
- Blog-content-Component
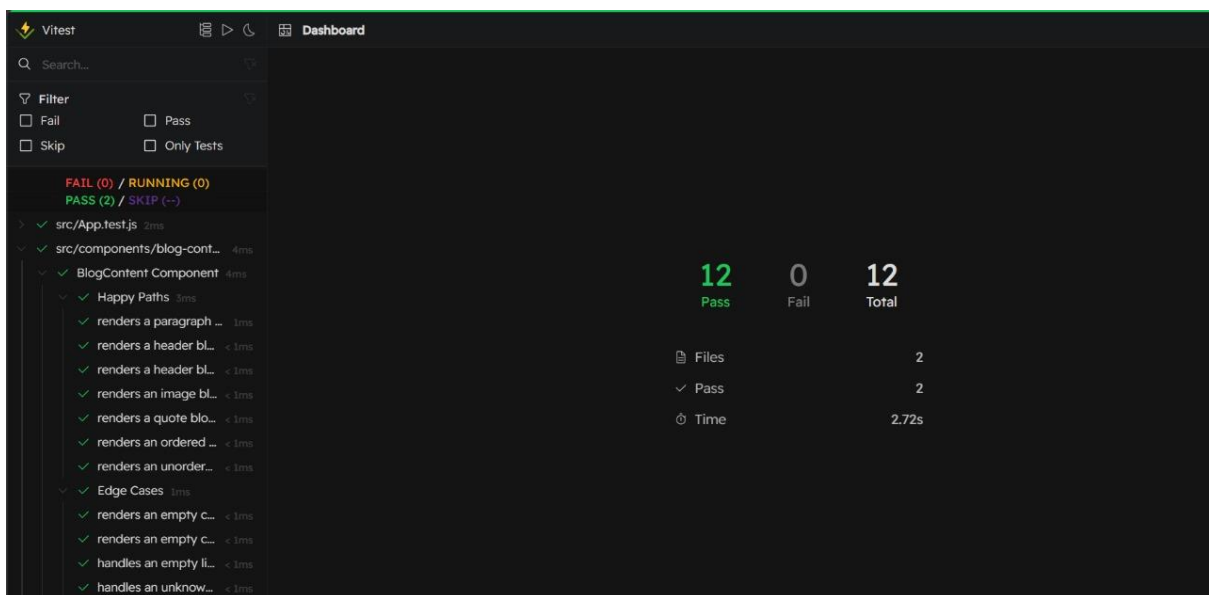
- Blog-Post-Component

- Inpage-navigation-Component

- Load-More-Component

- Tag-Component

- Loader

- Input-Component

- Comment-Field

- UserCard

- User NavigationPanel

- NoData Component
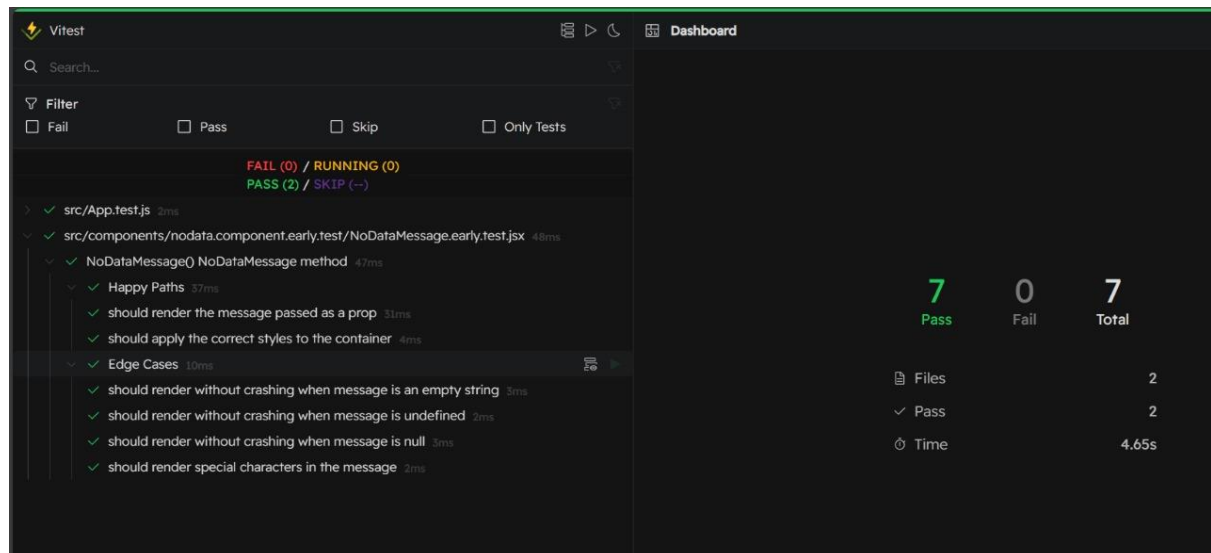
- NoBanner BlogPost
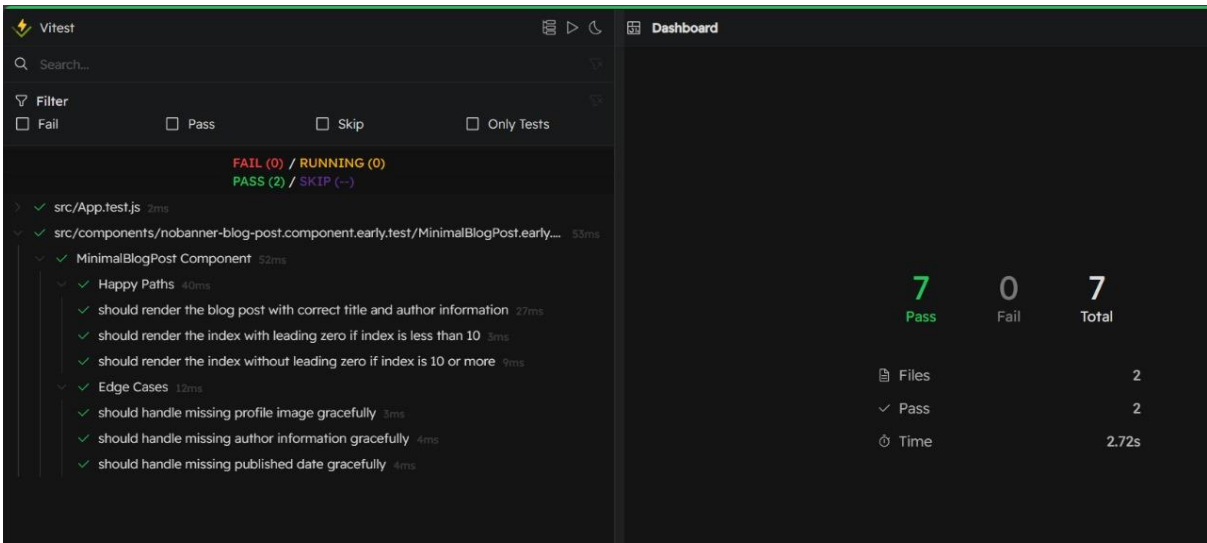
- Navbar
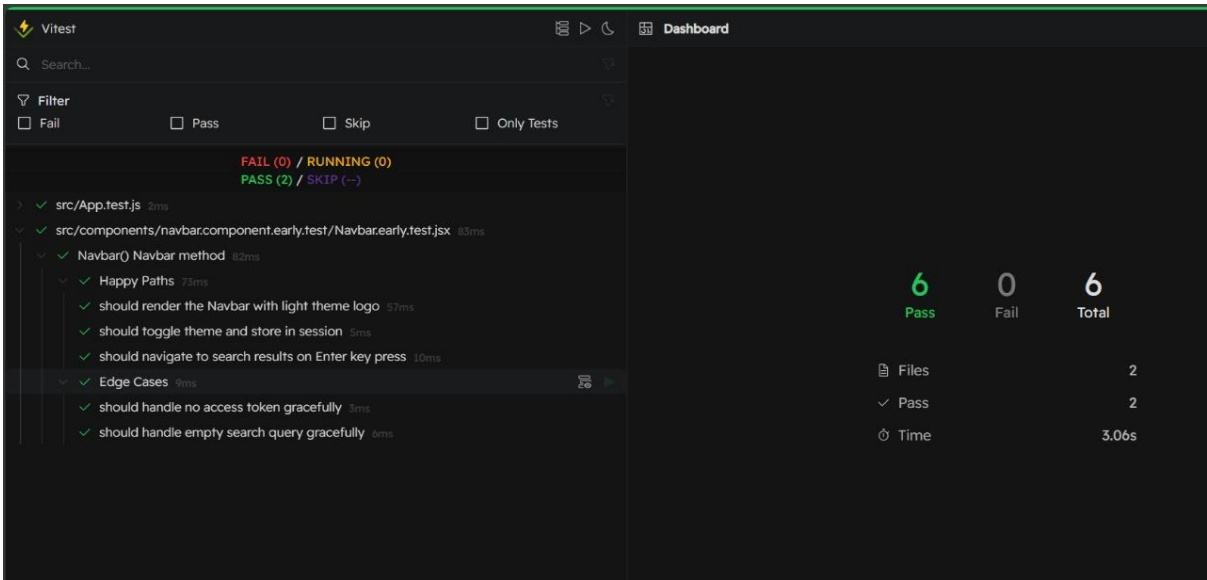
- Blog Interactions
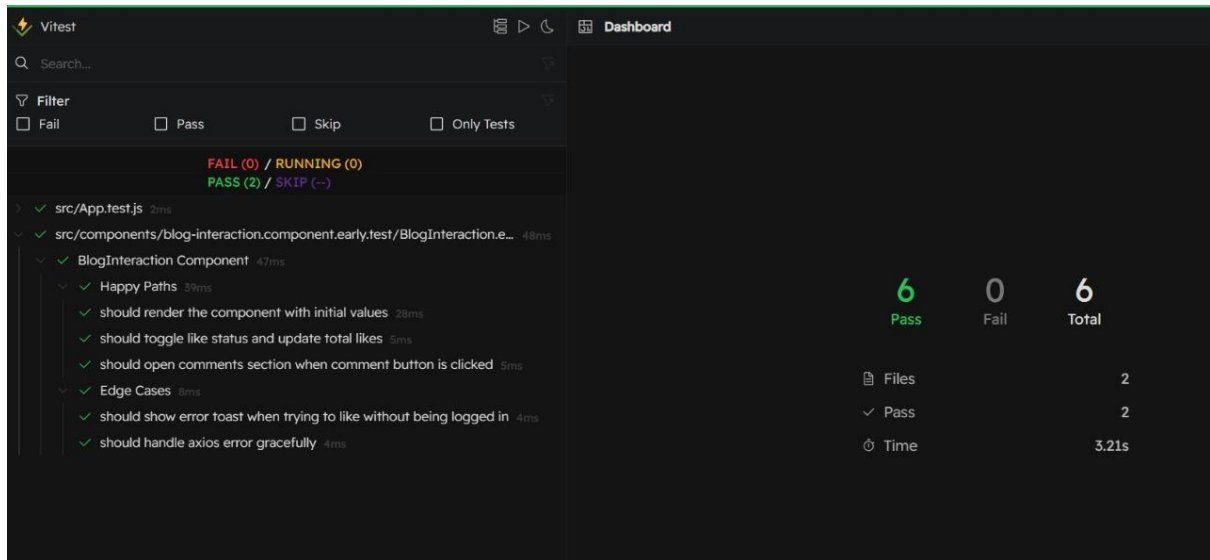
- Side Navbar
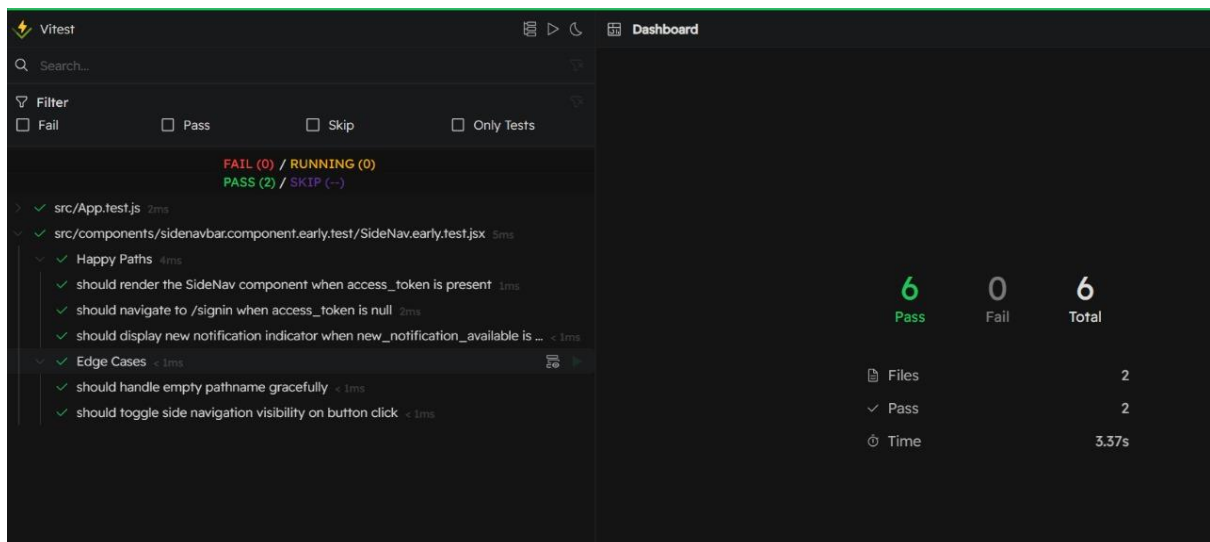
- Comment-Card Component
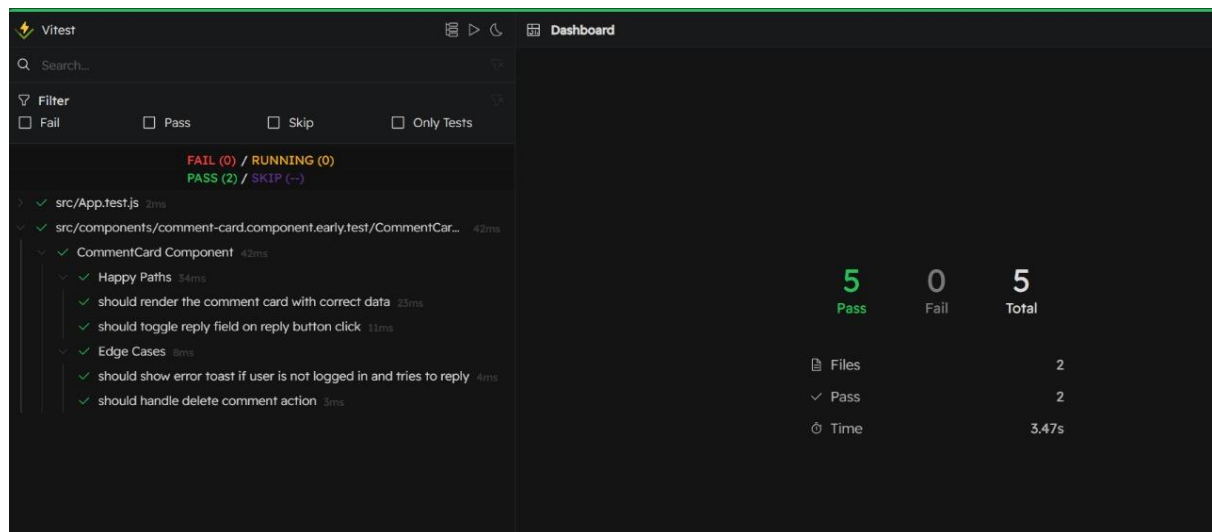
- Comment Component
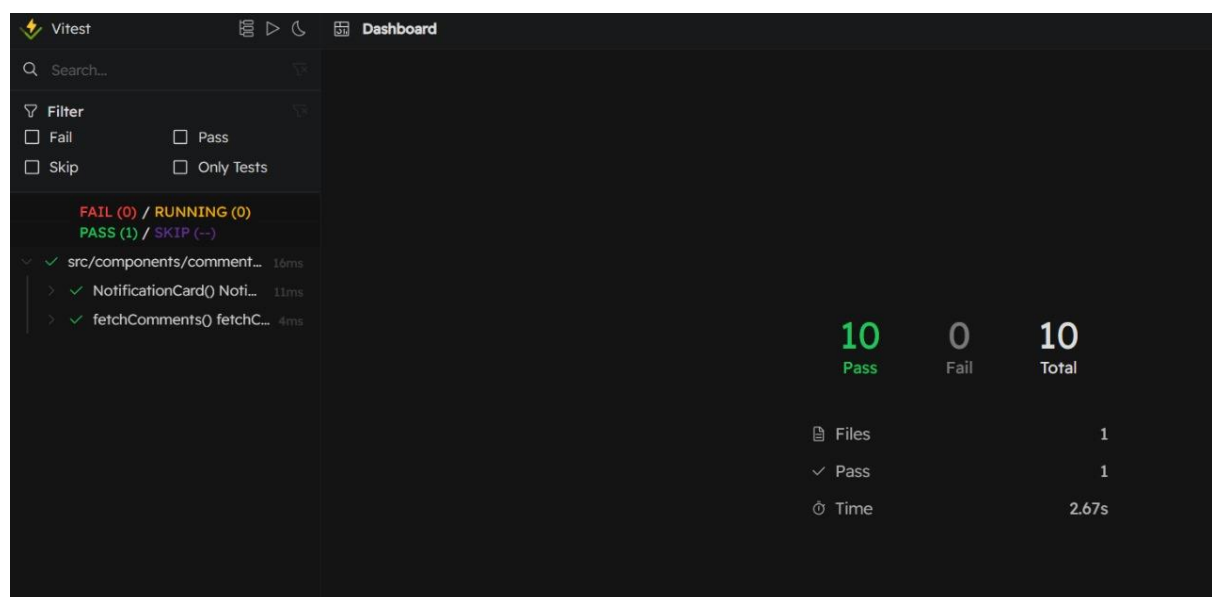
- Notification Component
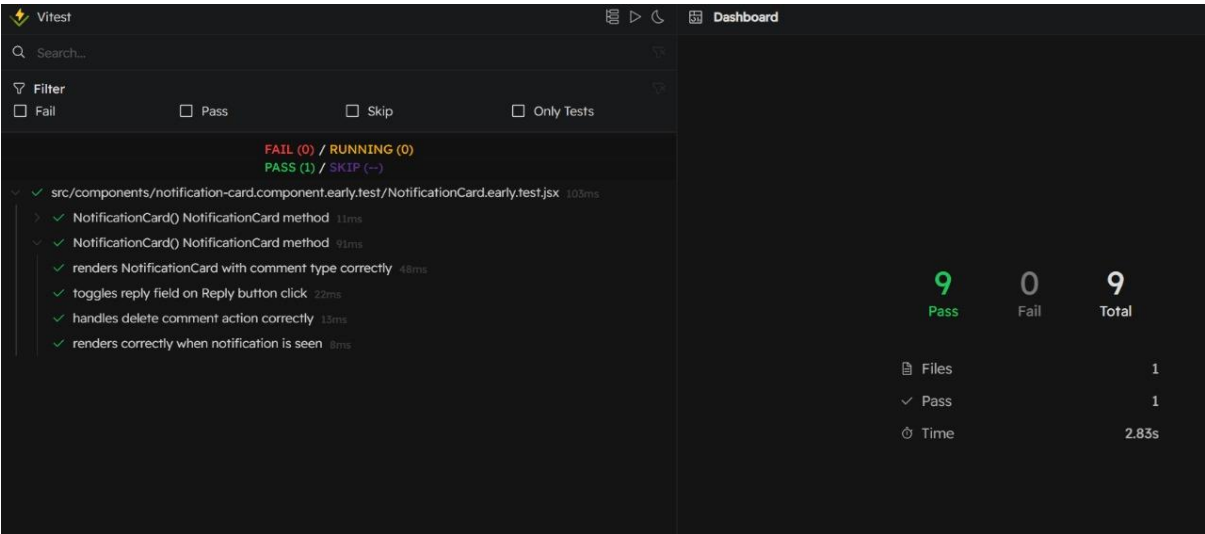
Backend Unit Testing Report

1. notificationController

1. all_notifications_count

```
> server@1.0.0 coverage
> jest --collect-coverage

 PASS   Controllers/notificationController.early.test/all_notifications_count.early.test.js
  all_notifications_count() all_notifications_count method
    Happy Paths
      √ should return the total count of notifications for the user when no filter is applied (4 ms)
      √ should return the total count of notifications for the user with a specific filter (1 ms)
    Edge Cases
      √ should return an error if the user is not found in the request (1 ms)
      √ should handle errors from the database gracefully (1 ms)


--------------------------|---------|----------|---------|---------|-------------------
File                      | % Stmts | % Branch | % Funcs | % Lines | Uncovered Line #s
--------------------------|---------|----------|---------|---------|-------------------
All files                 |   36.11 |    38.46 |   16.66 |   36.11 |
 notificationController.js |   36.11 |    38.46 |   16.66 |   36.11 | 4-25,31-60
--------------------------|---------|----------|---------|---------|-------------------
Test Suites: 1 passed, 1 total
Tests:       4 passed, 4 total
Snapshots:   0 total
Time:        1.662 s, estimated 3 s
Ran all test suites.
PS C:\Users\CHAUHAN HEMAN\OneDrive\Desktop\backend Unit\ConnectCo\react\serverOrg>
```
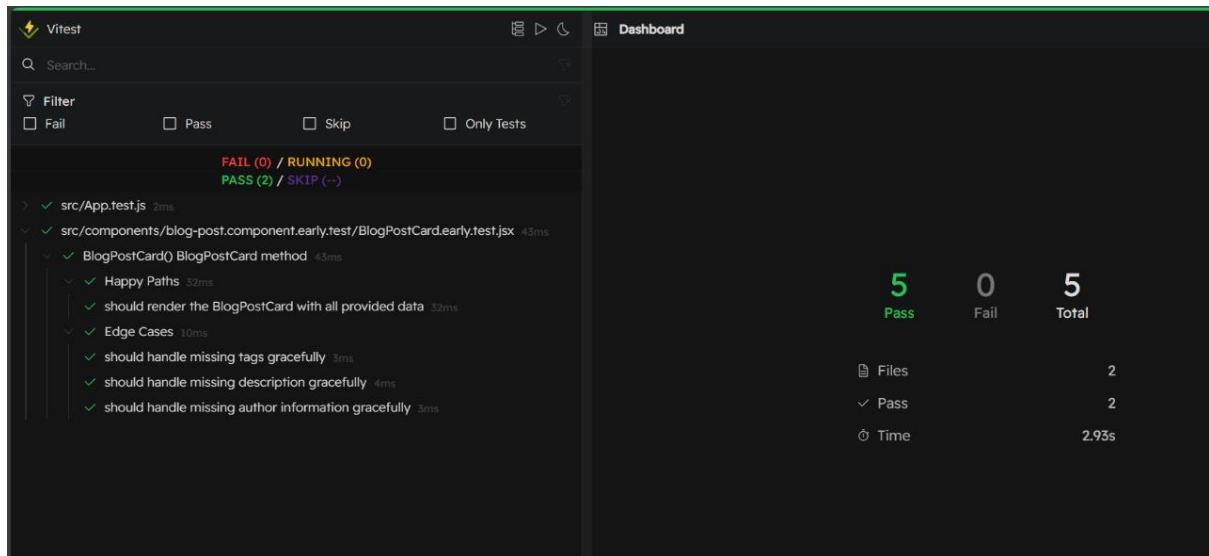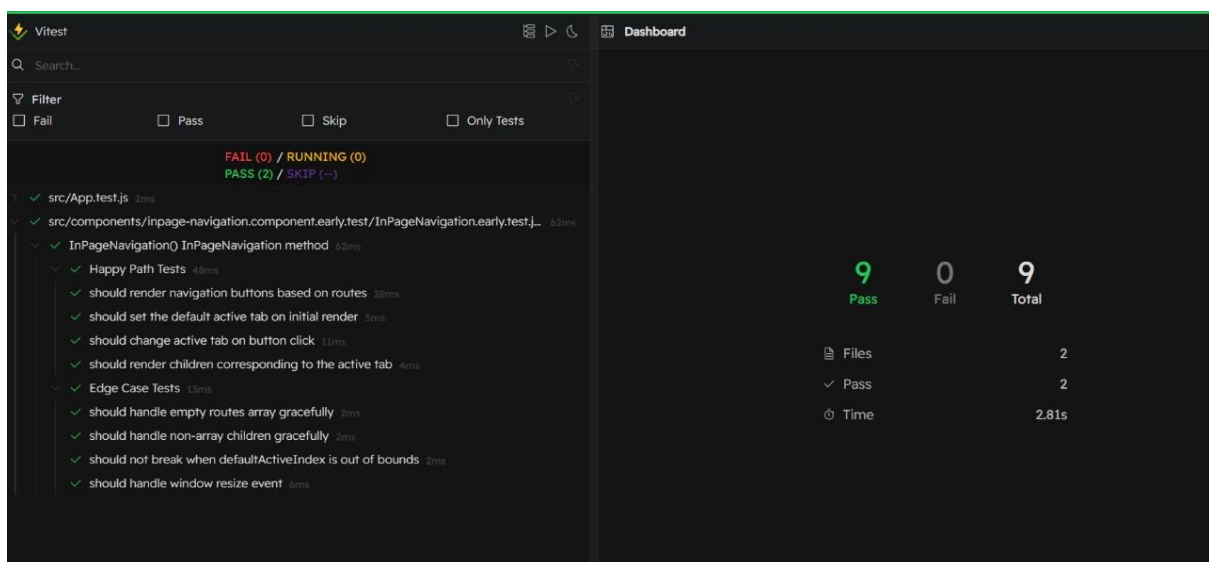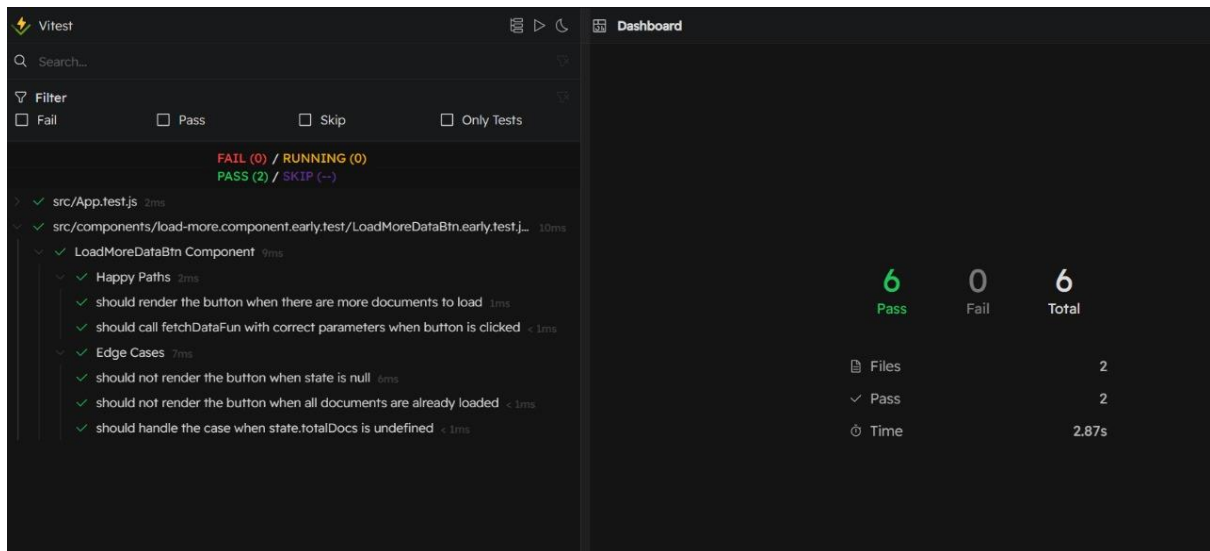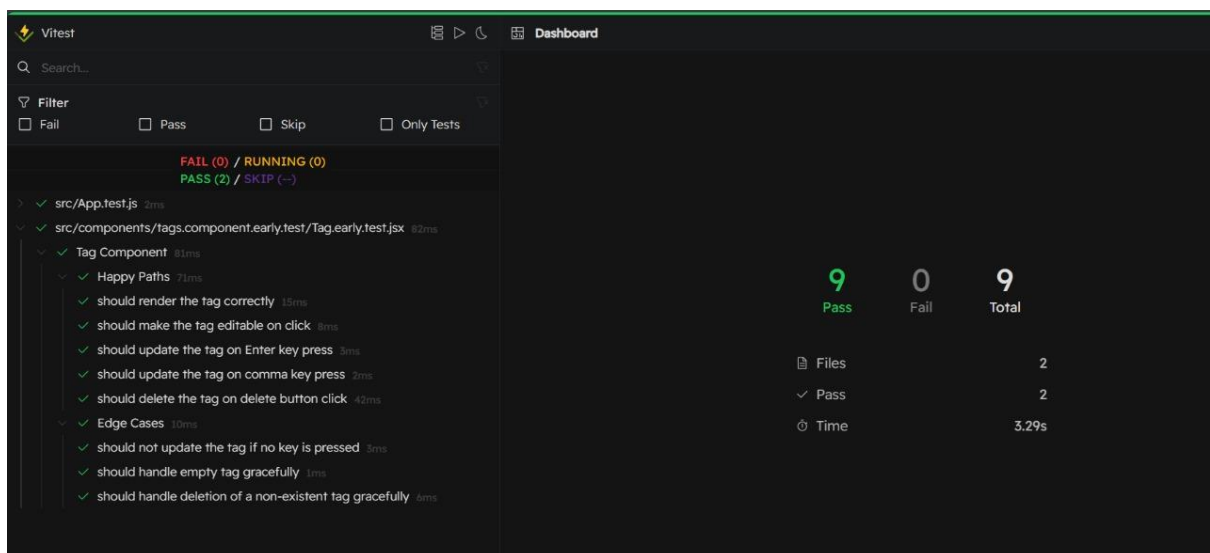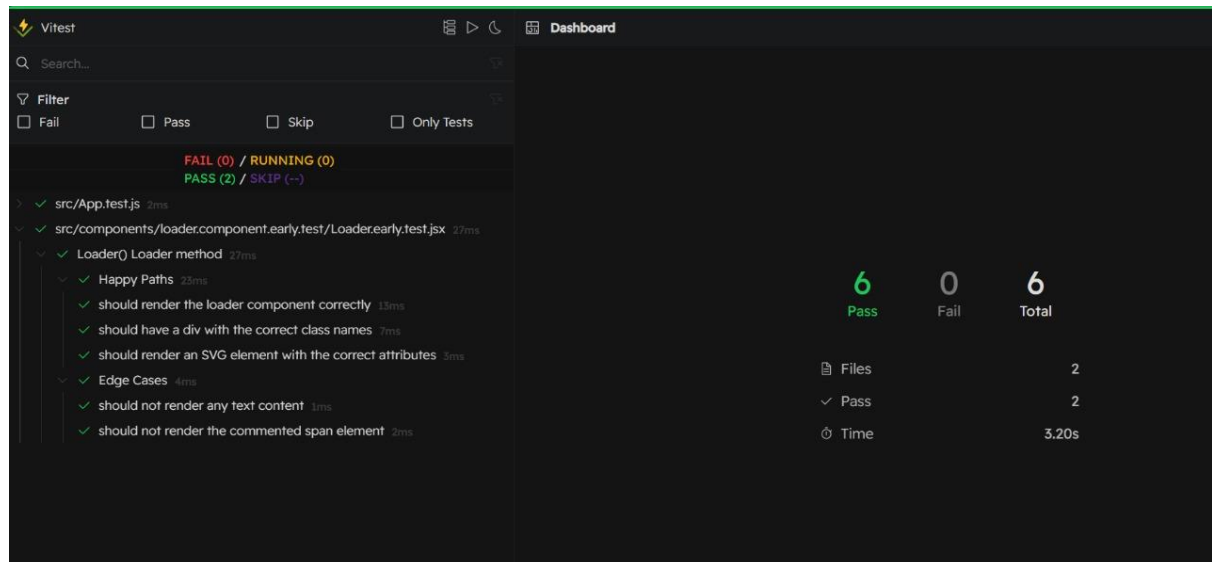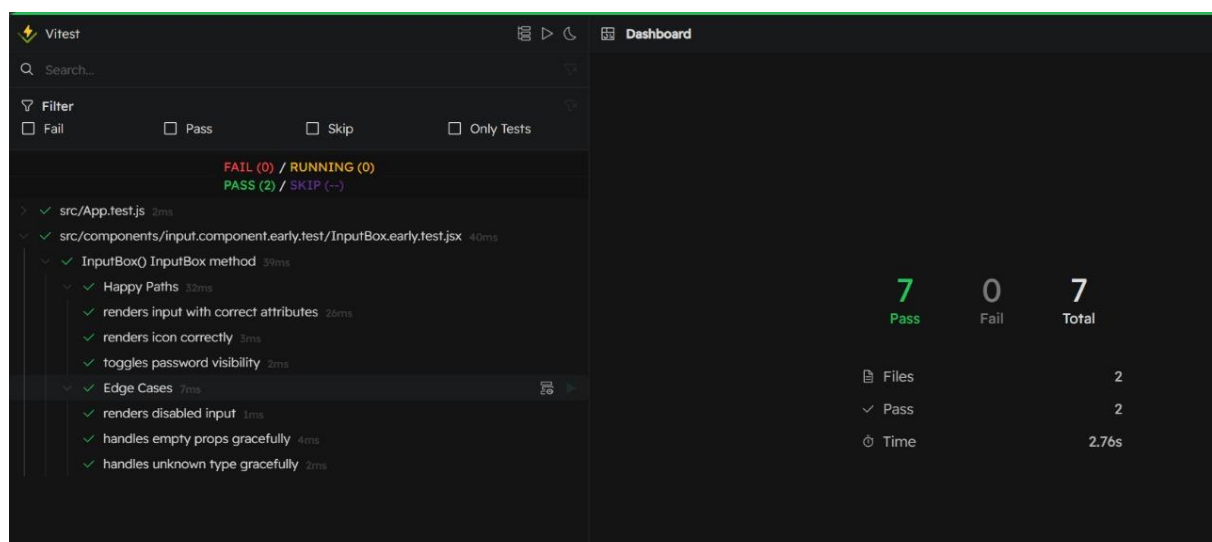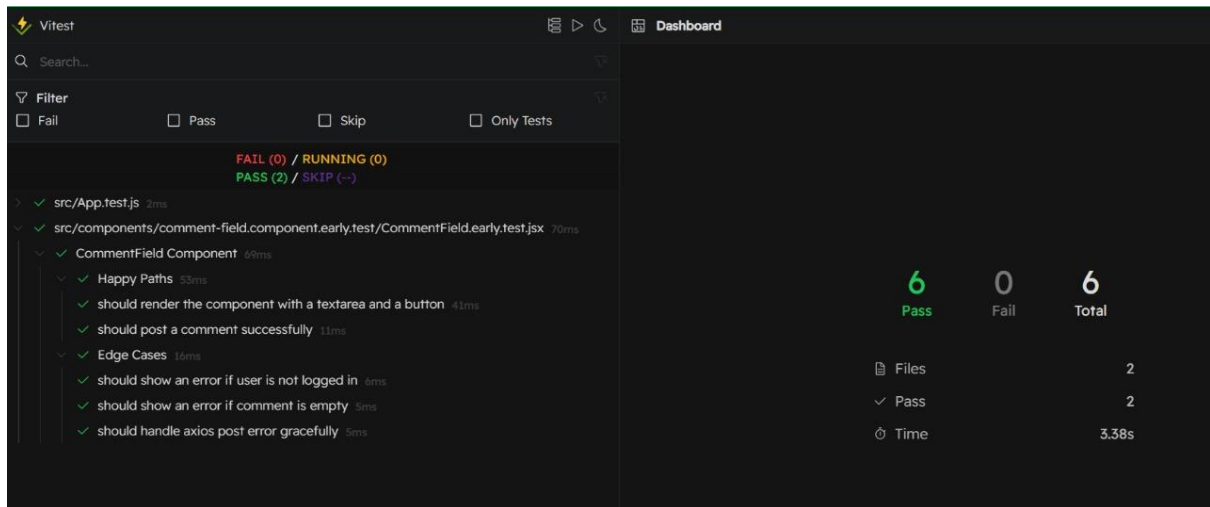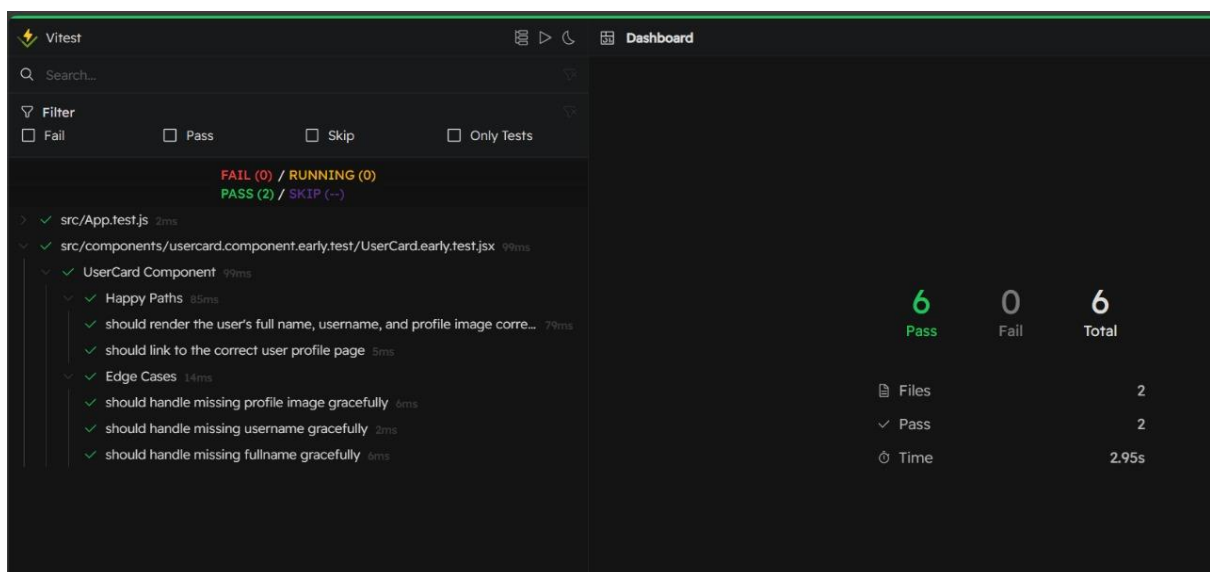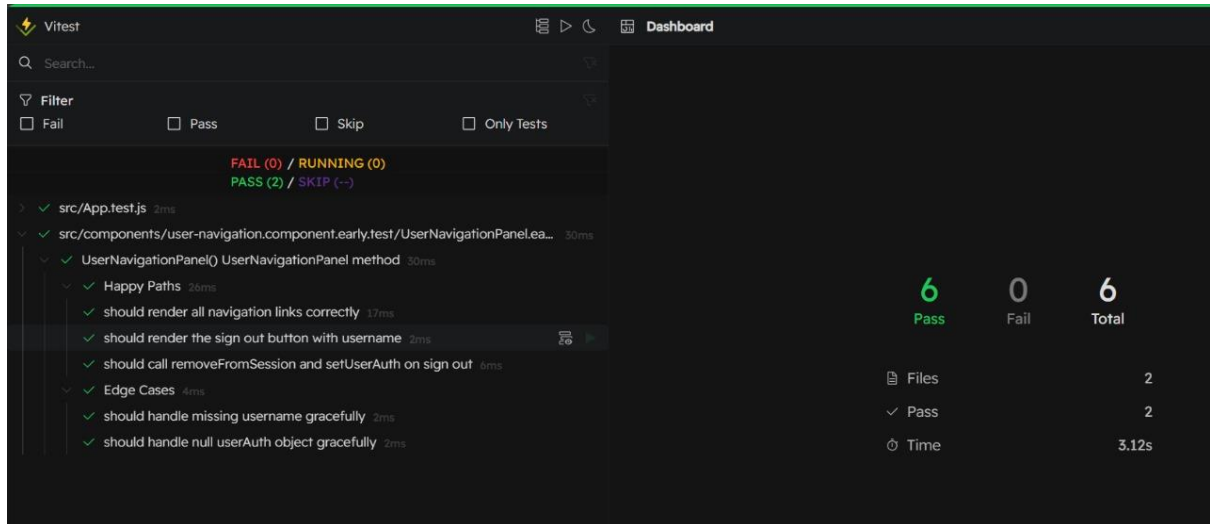
2. new_notification

```
PASS  Controllers/notificationController.early.test/new_notification.early.test.js
  new_notification() new_notification method
    Happy Path
      √ should return 200 and true when a new unseen notification exists (3 ms)
      √ should return 200 and false when no new unseen notification exists
    Edge Cases
      √ should return 400 if user is not provided in the request (3 ms)
      √ should return 500 if there is an error during database operation (1 ms)


---------------------------|---------|----------|---------|---------|-------------------
File                       | % Stmts | % Branch | % Funcs | % Lines | Uncovered Line #s
---------------------------|---------|----------|---------|---------|-------------------
All files                  |      25 |    15.38 |   16.66 |      25 |
 notificationController.js |      25 |    15.38 |   16.66 |      25 | 24-25,31-60,65-84
---------------------------|---------|----------|---------|---------|-------------------
Test Suites: 1 passed, 1 total
Tests:       4 passed, 4 total
Snapshots:   0 total
Time:        1.656 s, estimated 2 s
Ran all test suites.
PS C:\Users\CHAUHAN HEMAN\OneDrive\Desktop\backend Unit\ConnectCo\react\serverOrg> []
```

2. userController

1. search_user

```
PASS  Controllers/userController.early.test/search_user.early.test.js
  search_user() search_user method
    Happy paths
      √ should return a list of users matching the query (4 ms)
      √ should return an empty list if no users match the query (1 ms)
    Edge cases
      √ should handle errors from the database gracefully
      √ should handle case-insensitive queries (1 ms)
      √ should limit the results to 50 users (1 ms)

--------------------|---------|----------|---------|---------|-------------------------------------
File                | % Stmts | % Branch | % Funcs | % Lines | Uncovered Line #s
--------------------|---------|----------|---------|---------|-------------------------------------
All files           |      16 |        0 |    4.16 |   16.21 |
 Controllers        |   12.67 |        0 |    4.34 |   12.85 |
  userController.js  |   12.67 |        0 |    4.34 |   12.85 | 26-39,45-58,64-125,130-160,165-183,188-197
 Schema             |      75 |      100 |       0 |      75 |
  Blog.js           |     100 |      100 |     100 |     100 |
  User.js           |   66.66 |      100 |       0 |   66.66 | 34
--------------------|---------|----------|---------|---------|-------------------------------------
Test Suites: 1 passed, 1 total
Tests:       5 passed, 5 total
Snapshots:   0 total
Time:        3.209 s, estimated 4 s
Ran all test suites.
PS C:\Users\CHAUHAN HEMAN\OneDrive\Desktop\backend Unit\ConnectCo\react\serverOrg>
```
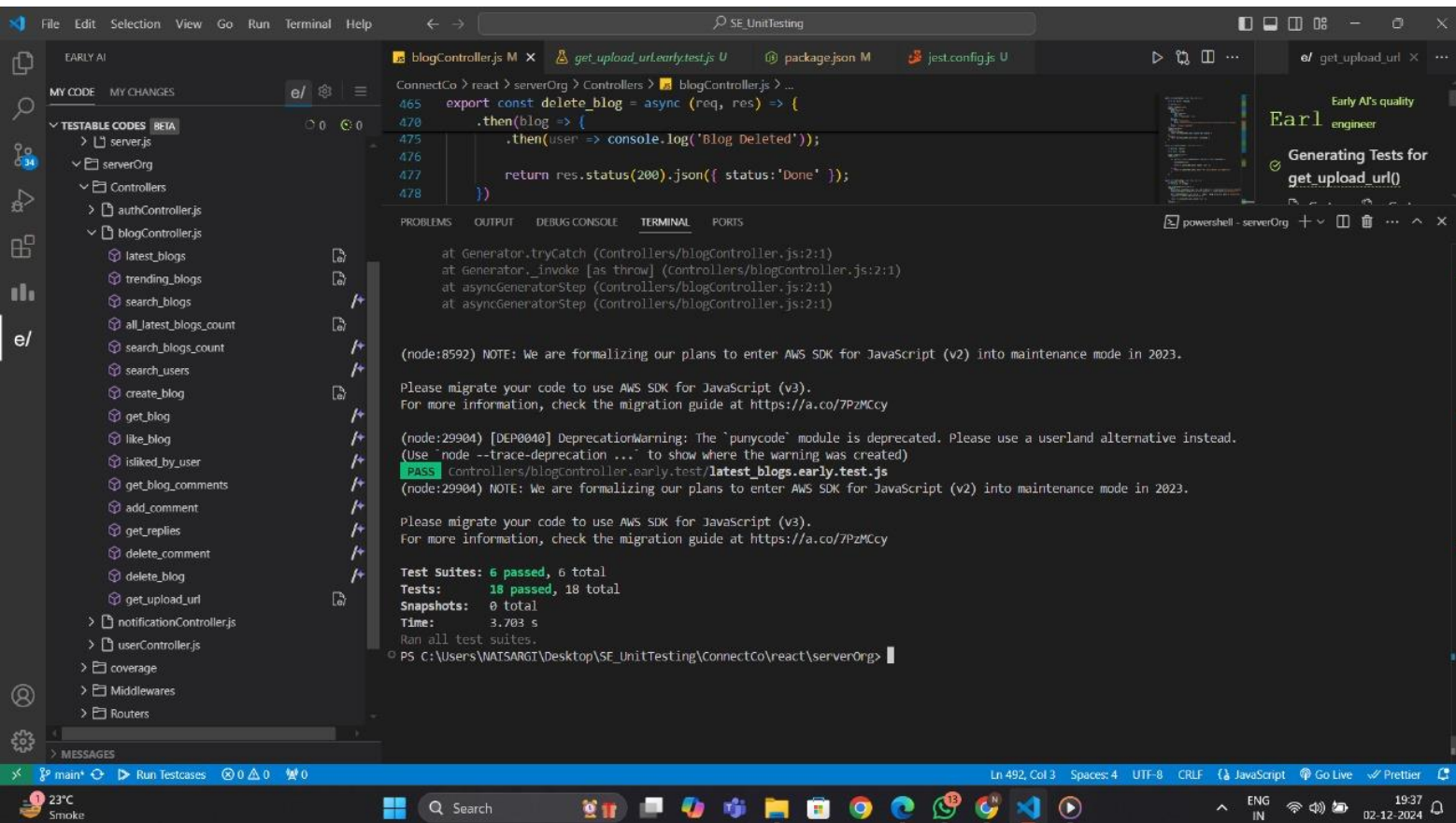
2. update_profile

```
PASS  Controllers/userController.early.test/update_profile.early.test.js
  update_profile() update_profile method
    Happy Path
      √ should update the user profile successfully (4 ms)
    Edge Cases
      √ should return 403 if username is less than 3 characters (1 ms)
      √ should return 403 if bio exceeds 150 characters
      √ should return 403 if social link format is invalid (1 ms)
      √ should return 500 if social link URL is malformed (1 ms)
      √ should return 409 if username is already taken (1 ms)
      √ should return 500 for other database errors

--------------------|---------|----------|---------|---------|-------------------------------------
File                | % Stmts | % Branch | % Funcs | % Lines | Uncovered Line #s
--------------------|---------|----------|---------|---------|-------------------------------------
All files           |   39.47 |    41.66 |      12 |   38.66 |
 Controllers        |    37.5 |    41.66 |    12.5 |   36.61 |
  userController.js  |    37.5 |    41.66 |    12.5 |   36.61 | 9-19,26-39,45-58,91,130-160,165-183,188-197
 Schema             |      75 |      100 |       0 |      75 |
  Blog.js           |     100 |      100 |     100 |     100 |
  User.js           |   66.66 |      100 |       0 |   66.66 | 34
--------------------|---------|----------|---------|---------|-------------------------------------
Test Suites: 1 passed, 1 total
Tests:       7 passed, 7 total
Snapshots:   0 total
Time:        1.854 s, estimated 3 s
Ran all test suites.
PS C:\Users\CHAUHAN HEMAN\OneDrive\Desktop\backend Unit\ConnectCo\react\serverOrg>
```

3. user_written_blogs_count

```
PASS  Controllers/userController.early.test/user_written_blogs_count.early.test.js
  user_written_blogs_count() user_written_blogs_count method
    Happy paths
      √ should return the correct count of blogs for a user (4 ms)
      √ should handle an empty query string gracefully (1 ms)
    Edge cases
      √ should handle a database error gracefully (21 ms)
      √ should handle a missing user ID gracefully (2 ms)


-------------------|---------|----------|---------|---------|-------------------------------------------------------
File               | % Stmts | % Branch | % Funcs | % Lines | Uncovered Line #s
-------------------|---------|----------|---------|---------|-------------------------------------------------------
All files          |   21.91 |        0 |   13.04 |   22.22 |
 Controllers       |   18.84 |        0 |   13.63 |   19.11 |
  userController.js |   18.84 |        0 |   13.63 |   19.11 | 9-19,26-39,45-58,64-125,130-160,166-179
 Schema            |      75 |      100 |       0 |      75 |
  Blog.js          |     100 |      100 |     100 |     100 |
  User.js          |   66.66 |      100 |       0 |   66.66 | 34
-------------------|---------|----------|---------|---------|-------------------------------------------------------
Test Suites: 1 passed, 1 total
Tests:       4 passed, 4 total
Snapshots:   0 total
Time:        1.91 s, estimated 2 s
Ran all test suites.
PS C:\Users\CHAUHAN HEMAN\OneDrive\Desktop\backend Unit\ConnectCo\react\serverOrg>
```

3. blogController

1. get_upload_url

2. create_blog

3. trending_blogs

4. all_latest_blogs_count

5. latest_blogs

6. Combined Results with "get_blog"
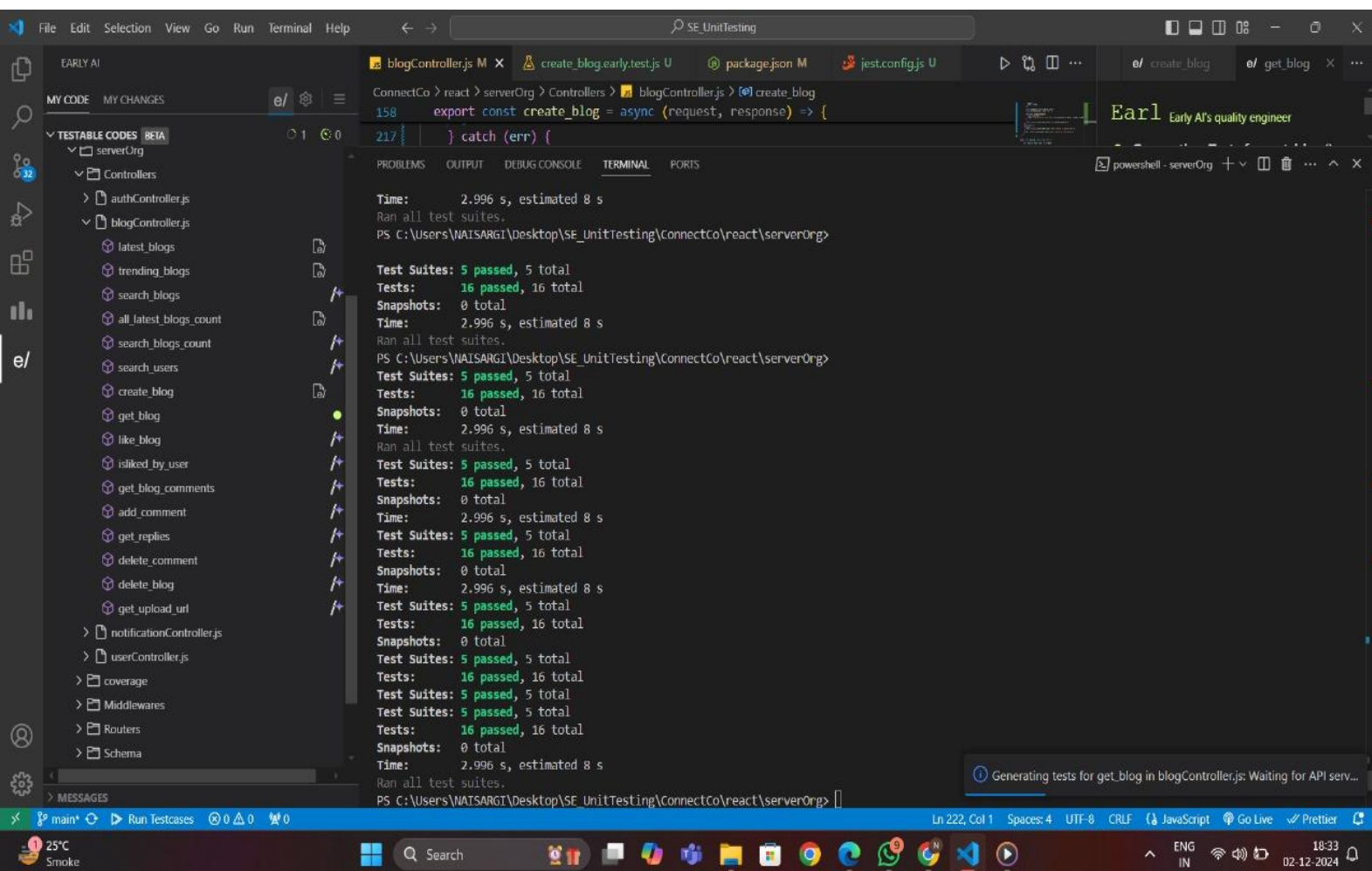
4. authController

1. signin

5. notificationController and userController

```
----------------------------|---------|----------|---------|---------|----------------------------
File                        | % Stmts | % Branch | % Funcs | % Lines | Uncovered Line #s
----------------------------|---------|----------|---------|---------|----------------------------
All files                   |   57.79 |    47.36 |   41.37 |    57.4 |
 Controllers                |   57.14 |    47.36 |   42.85 |   56.73 |
  notificationController.js |   58.33 |    61.53 |   33.33 |   58.33 | 31-60
  userController.js         |   56.52 |       40 |   45.45 |   55.88 | 9-19,26-39,91,132-160,166-179
 Schema                     |      75 |      100 |       0 |      75 |
  Blog.js                   |     100 |      100 |     100 |     100 |
  User.js                   |   66.66 |      100 |       0 |   66.66 | 34
----------------------------|---------|----------|---------|---------|----------------------------
Test Suites: 8 failed, 2 passed, 10 total
Tests:       15 failed, 17 passed, 32 total
Snapshots:   0 total
Time:        18.241 s
Ran all test suites.
```