



# UNIT TEST LALAJOEUY

Presented by Kelompok 6

# TEAM PROJECT

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# UNIT TESTING?

Unit testing adalah salah satu jenis pengujian perangkat lunak (software) yang berfokus pada pengujian unit-unit terkecil dalam sebuah sistem perangkat lunak.

Biasanya, unit testing mencakup pengujian function, method, dan class. (Source: Dicoding)

# JEST?

Framework open-source javascript yang biasa digunakan untuk unit testing.

Jest sebagian besar digunakan untuk bekerja dengan aplikasi web berbasis react-native dan dengan react, dan sebagian besar berfokus pada kesederhanaan saat melakukan pengujian unit.

# IMPLEMENTASI

- CRUD - Movies

## 1. Create - Movies BE

```
PASS test/add-movie.test.js
```

```
POST /add-drama
```

```
✓ should successfully add a new movie (154 ms)
```

```
✓ should return 500 if required fields are missing (40 ms)
```

```
Test Suites: 1 passed, 1 total
```

```
Tests: 2 passed, 2 total
```

```
Snapshots: 0 total
```

```
Time: 1.711 s, estimated 2 s
```

# IMPLEMENTASI

- CRUD - Movies

## 1. Create - Movies FE

```
PASS test/input-drama.test.js (13.09 s)
```

```
Drama Input Form Tests with Admin Role
```

```
✓ Should load input drama page and display title (3108 ms)
```

```
✓ Should fill and submit the form successfully (7508 ms)
```

```
Test Suites: 1 passed, 1 total
```

```
Tests: 2 passed, 2 total
```

```
Snapshots: 0 total
```

```
Time: 14.407 s, estimated 21 s
```

```
Ran all test suites matching /test\\input-drama.test.js/i.
```

# IMPLEMENTASI

## 2. Update - Movies

```
PASS test/update-movie.test.js
```

```
  PUT /update-drama
```

```
    ✓ should successfully update an existing movie (142 ms)
```

```
    ✓ should return 404 if the movie does not exist (8 ms)
```

```
    ✓ should return 500 if required fields are missing (8 ms)
```

```
Test Suites: 1 passed, 1 total
```

```
Tests:      3 passed, 3 total
```

```
Snapshots:  0 total
```

```
Time:       1.548 s, estimated 2 s
```

# IMPLEMENTASI

## 3. Delete - Movies

**PASS** test/delete-movie.test.js

PUT /movie-delete/:id

✓ should successfully move movie to trash (100 ms)

✓ should return 404 if the movie ID does not exist (8 ms)

✓ should return 500 if there is an internal server error (5 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 3 passed, 3 total

**Snapshots:** 0 total

**Time:** 1.46 s, estimated 2 s



# IMPLEMENTASI

- Login

```
PASS test/login.test.js
```

```
POST /login
```

- ✓ should successfully log in a valid user (133 ms)
- ✓ should return an error for incorrect password (14 ms)
- ✓ should return an error for unconfirmed email (11 ms)
- ✓ should return an error if the account is suspended (10 ms)

```
Test Suites: 1 passed, 1 total
```

```
Tests:      4 passed, 4 total
```

```
Snapshots:  0 total
```

```
Time:       2.027 s
```

# IMPLEMENTASI

- Component Featured

```
PASS src/components/featured/featured.test.js
  Featured Component
    ✓ renders loading state initially (94 ms)
    ✓ fetches and displays movie data correctly (27 ms)
    ✓ handles API error gracefully (3 ms)
    ✓ navigates to movie details when See More button is clicked (29 ms)
    ✓ cycles through movies automatically (7 ms)

Test Suites: 1 passed, 1 total
Tests:       5 passed, 5 total
Snapshots:   0 total
Time:        3.014 s
Ran all test suites matching /featured.test.js/i.
```

# IMPLEMENTASI

- Actor Card Component

```
PASS src/components/actorcard/actorCard.test.js
  ActorCard Component
    ✓ renders the ActorCard component with props (35 ms)
    ✓ renders the fallback image when imageSrc is "N/A" (8 ms)
    ✓ renders the ActorCard component with default props (3 ms)

Test Suites: 1 passed, 1 total
Tests:       3 passed, 3 total
Snapshots:   0 total
Time:        1.548 s, estimated 2 s
Ran all test suites matching /actorCard.test.js/i.
```

# IMPLEMENTASI

- Pagination Component

```
(useNode trace deprecation ... to show where the warning was created)
PASS src/components/pagination/pagination.test.jsx
  PaginationCustom Component
    ✓ renders pagination with correct number of pages when total pages <= 5 (28
ms)
    ✓ renders truncated pagination when total pages > 5 (4 ms)
    ✓ disables Previous button on first page (2 ms)
    ✓ disables Next button on last page (2 ms)
    ✓ calls onPageChange with correct page number when clicking page number (5 m
s)
    ✓ calls onPageChange with correct page when clicking Next (2 ms)
    ✓ calls onPageChange with correct page when clicking Previous (2 ms)
    ✓ does not call onPageChange when clicking ellipsis (2 ms)
    ✓ shows correct range of pages when on first page of many (3 ms)
    ✓ shows correct range of pages when on last page of many (2 ms)
    ✓ marks current page as active (2 ms)
    ✓ does not call onPageChange when clicking current page (2 ms)

Test Suites: 1 passed, 1 total
Tests:       12 passed, 12 total
Snapshots:   0 total
Time:        1.204 s
Ran all test suites matching /pagination.test.js/i.
```

# IMPLEMENTASI

- User Review Component

```
PASS src/components/userReview/userReview.test.jsx
  UserReview Component
    ✓ renders the component with provided props (26 ms)
    ✓ truncates long text by default (4 ms)
    ✓ expands and collapses the review text when "See more" and "See less" are c
licked (41 ms)
    ✓ handles short review text without truncation (4 ms)

Test Suites: 1 passed, 1 total
Tests:       4 passed, 4 total
Snapshots:   0 total
Time:        1.88 s
Ran all test suites matching /userReview.test.js/i.
```

# HAL MENARIK

- Konfigurasi JEST sulit untuk FE, sehingga saya memakai selenium
- Selenium menampilkan proses realtime saat testting
- JEST lebih cepat dibandingkan selenium
- JEST secara default tidak dapat membaca .css