

Day - 6

11.02.2025

What is nextjs?

Next.js is a framework for building web applications using React, a JavaScript library. Next.js provides additional features and optimizations, such as server-side rendering and static generation.

POSITIVE TESTCASE:-

Email id :-

- Confirm that the email field is case-insensitive.
- The email should not contain spaces.
- The email address must start with a letter not in numbers.
- Email should follow the format (example@domain.com).
- Only letters (A-Z or a-z), numbers (0-9), underscores(_) before @.
- Should not have consecutive dots, underscores.
- There must be a dot and text after the dot.
- There must be text after the @ symbol but before the dot.
- At Least two characters after the last dot.
- Email must include @ character only.

Password :-

- At Least One Uppercase Letter (A-Z).
- At Least One Lowercase Letter (a-z).
- No Spaces Allowed.
- Minimum Length of 8 characters.
- At Least One Number (0-9).
- At Least One Special Character.
- Underscore (_) Allowed.
- Must Be Case-Sensitive.

NEGATIVE TEST CASES :**Email id :**

Verify an email id cannot exceed 254 characters.
Verify the missing @ symbol in the email id field.
Verify the missing domain in the email id field.
Verify the missing username in the email id field.
Test email submission with invalid characters
Rejection of emails with consecutive dots.
Attempt to submit an email with an invalid top-level domain
Verify there are spaces in the email address

Password :

Entering an incorrect password for a valid username.
Entering an incorrect username for a valid password.
Entering an empty username field.
Entering an empty password field.
Entering a password that does not meet password strength requirements.
Enter a password that does not contain any numeric digits (optional)

1. Valid email and valid password.
2. Valid email with numbers and special characters.
3. Password with special characters.
4. Email with capital letters and small letters.

NEGATIVE TESTCASE:

1. Empty email and password.
2. Email with empty password.
3. Email format without @ or domain
3. Empty email with password.
4. Incorrect email with valid password.
5. Valid email with incorrect password.
6. Password less than 8 characters.
7. Password without special characters.
8. Password without Uppercase letter.
9. Password without Lower case letters.
10. Password without numbers.

Home.test.js

```
1 import { render, screen } from '@testing-library/react'
2 import Home from '../src/app/login/page.tsx';
3
4 test('renders homepage with heading', () => {
5   render(<Home />)
6   const heading = screen.getByRole('heading', { name: /welcome to next\.js!/i });
7   expect(heading).toBeInTheDocument()
8 })
```

jest.config.js

```
1 const nextJest = require('next/jest')
2
3 const createJestConfig = nextJest({
4   // Provide the path to your Next.js app to load next.config.js and .env files in your test environment
5   dir: './',
6 })
7
8 // Add any custom config to be passed to Jest
9 /** @type {import('jest').Config} */
10 const config = {
11   // Add more setup options before each test is run
12   setupFilesAfterEnv: ['<rootDir>/jest.setup.js'],
13   testEnvironment: 'jest-environment-jsdom',
14   preset: 'ts-jest',
15 }
16
17 // createJestConfig is exported this way to ensure that next/jest can load the Next.js config which is async
18 module.exports = createJestConfig(config)
```

jest.setup.js

```
import '@testing-library/jest-dom';
```