



# Playwright Mastery Interview Q&A (Part 2)

Deep Dive into Advanced Automation Concepts

# Q1: HOW TO TAKE A SCREENSHOT?

Playwright provides a built-in method to capture full pages, specific elements, or even visible viewports without external dependencies.

```
// Full Page Screenshot
await page.screenshot({ path: 'full.png', fullPage: true });

// Element-specific Screenshot
const logo = page.locator('.logo');
await logo.screenshot({ path: 'logo.png' });
```



iconscout | Ubaid El-Ahyar Alyafizi

Id: 5272754

## Q2: WHAT IS CODEGEN?

Playwright comes with a CLI tool that opens a browser and records your actions to generate test code automatically.



### Recording

Records clicks, typing, and navigation in real-time.



### Auto-Generation

Generates JS, TS, Python, Java, or C# code on the fly.



### CLI Command

Run: `npx playwright codegen google.com`

## Q3: WHAT IS BROWSERCONTEXT?



A **BrowserContext** is an isolated incognito-like session within a browser instance.

- 🛡️ **Isolation:** No shared cookies or cache.
- ⚡ **Performance:** Fast and cheap to create.
- 👤 **Multi-login:** Test different users simultaneously.

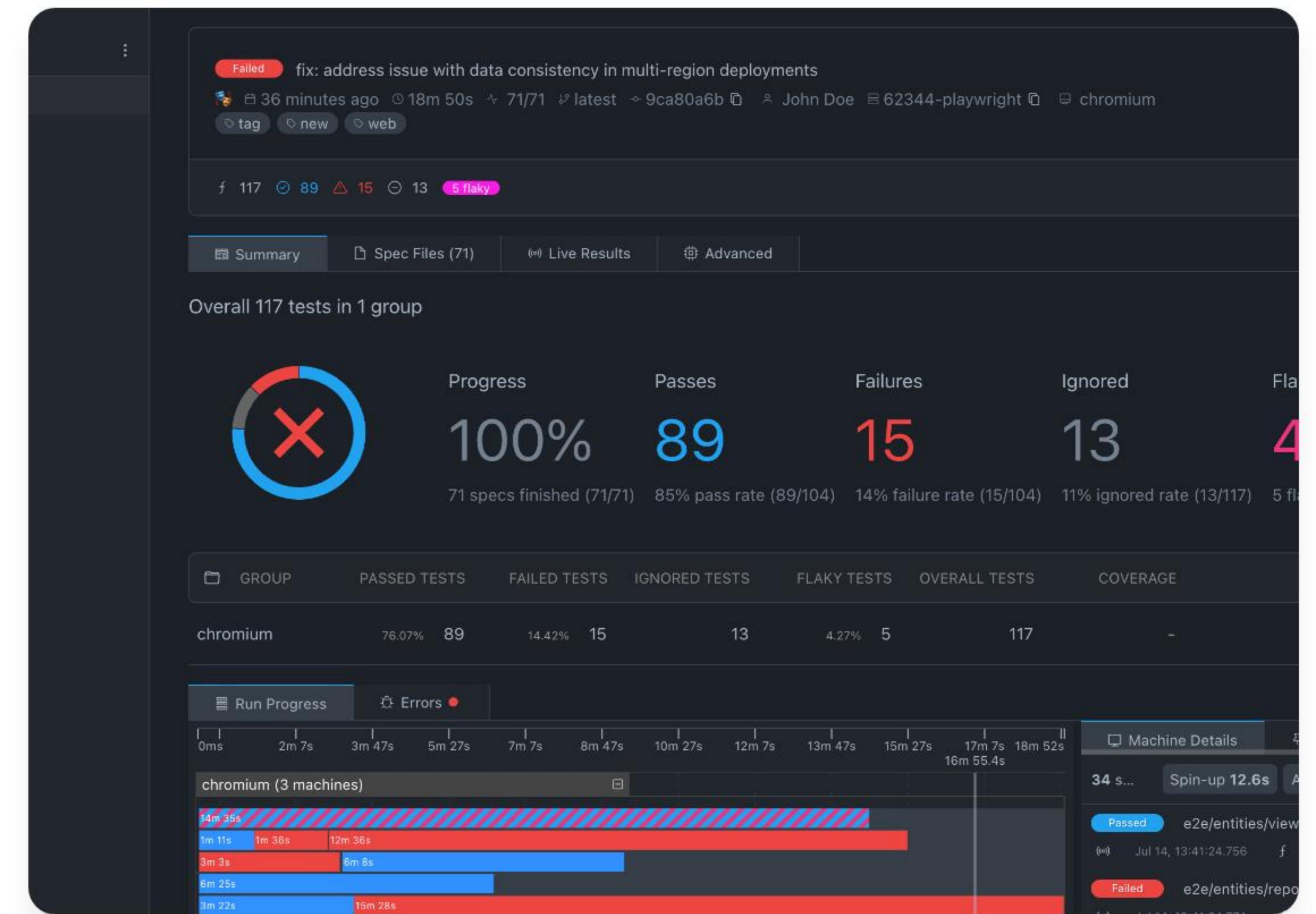
# Q4: BROWSER VS. BROWSERCONTEXT?

Feature	Browser	BrowserContext
Nature	Operating System Process	Isolated Session (Incognito)
Creation Cost	Heavy / Expensive	Lightweight / Inexpensive
Storage	Global across threads	Isolated Storage & Cookies
Typical Usage	Launched once per suite	Created once per test

# Q5: WHAT IS TRACING?

Tracing is a powerful debugging tool that captures the entire test execution lifecycle for post-mortem analysis.

- ⌚ **Screencasts:** View video of execution.
- 🕒 **DOM Snapshots:** Inspect HTML at any step.
- 📡 **Network Logs:** View all API calls.
- ❗ **Console Errors:** Identify JS failures.



## Q6: HOW TO GENERATE A TRACE?

Traces are usually enabled in the `playwright.config.ts` file to capture data on failures or retries.

```
// playwright.config.ts
export default defineConfig({
  use: {
    // Options: 'on', 'off', 'retain-on-failure', 'on-first-retry'
    trace: 'retain-on-failure',
  },
});
```

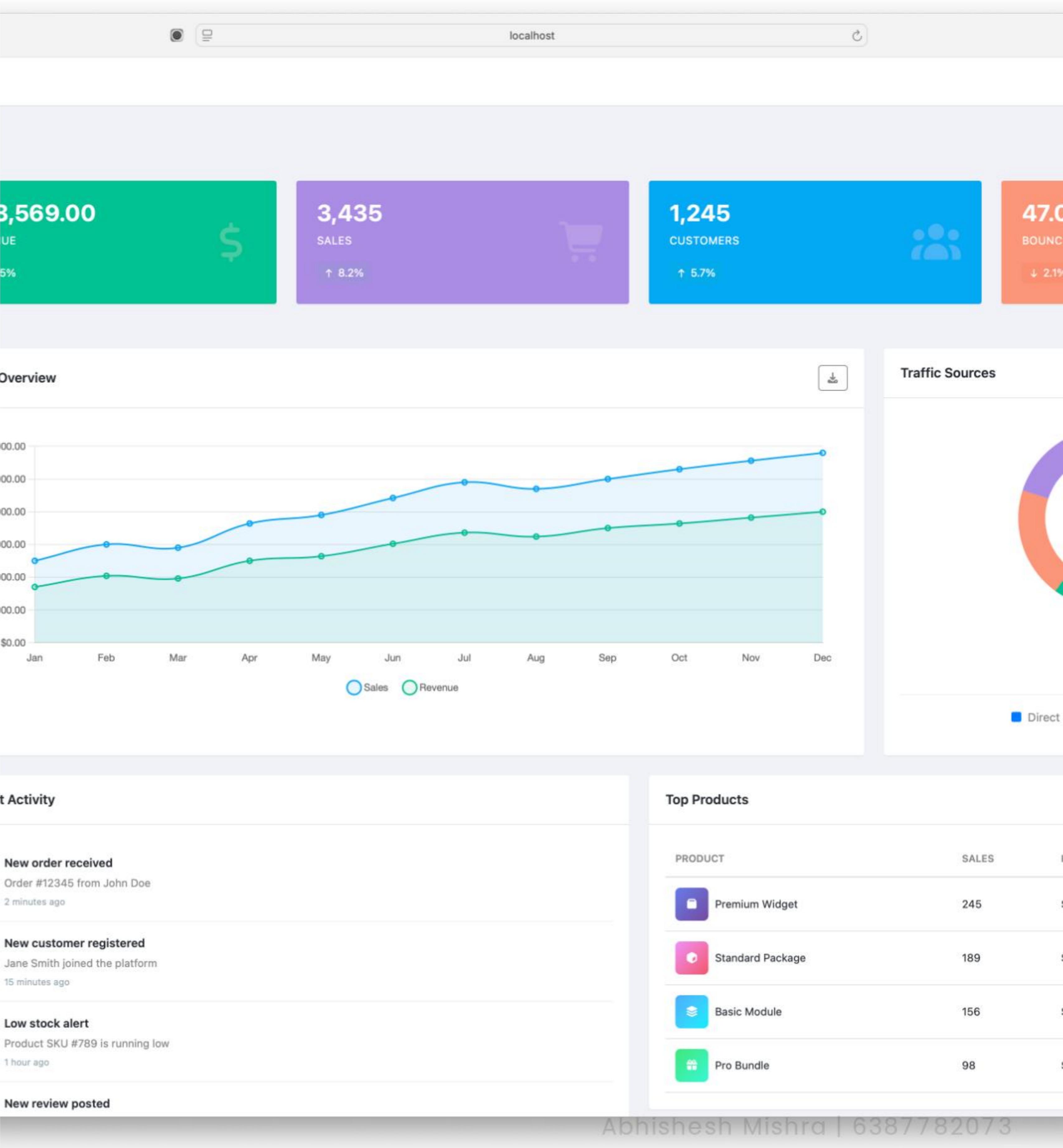
You can also run via CLI: `npx playwright test --trace on`

# Q7: HOW TO VIEW REPORTS?

Playwright generates a comprehensive HTML report summarizing test status, duration, and attachments.

## CLI COMMAND

```
npx playwright show-report
```



## Q8: HOW TO HANDLE MULTIPLE TABS?

```
const [newPage] = await Promise.all([
  // Wait for 'popup' or 'page' event
  context.waitForEvent('page'),
  page.locator('#open-tab').click(),
]);

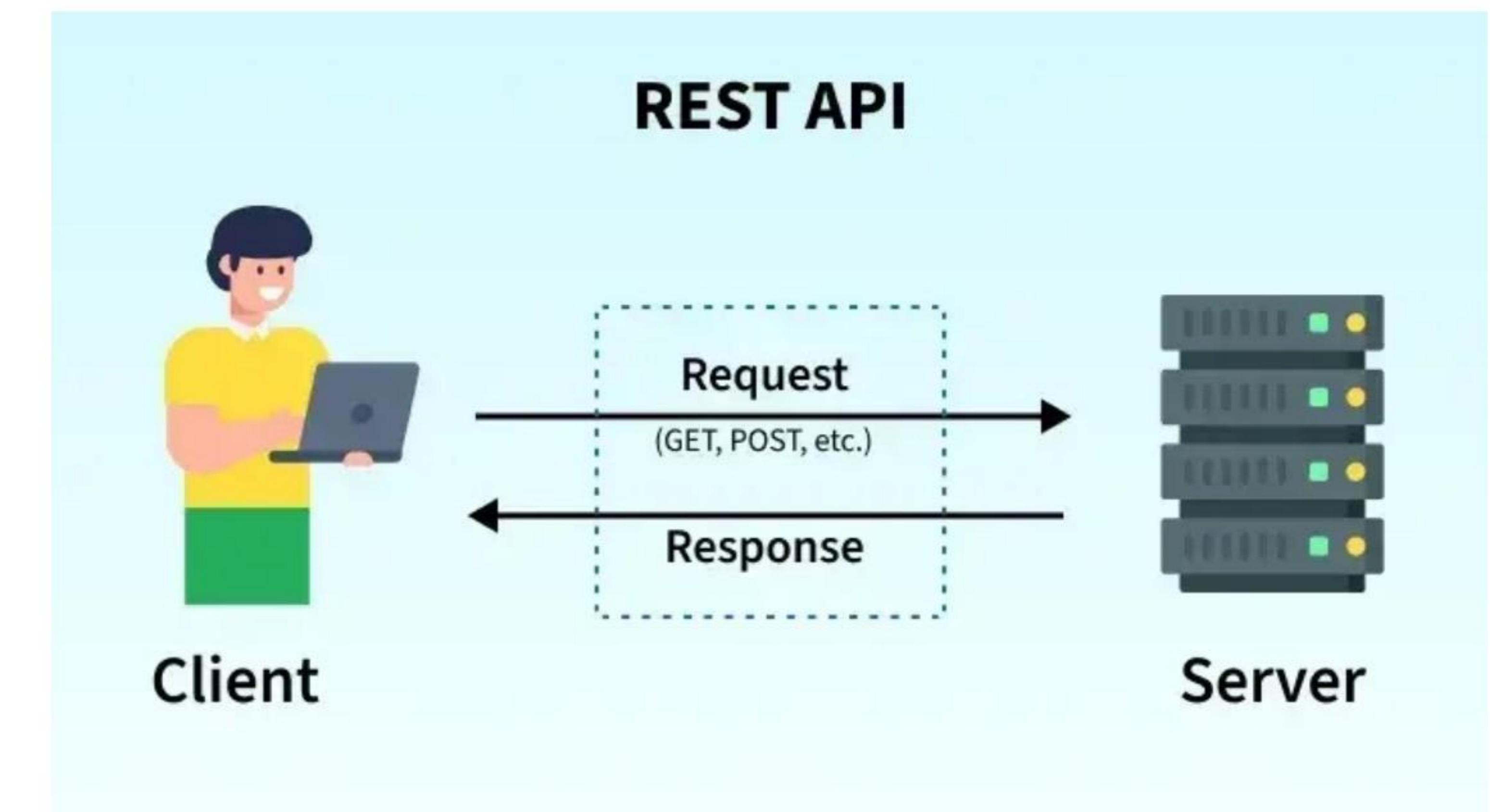
await newPage.waitForLoadState();
console.log(await newPage.title());
```



## Q9: HOW TO PERFORM API TESTING?

Playwright can handle REST API requests directly using the request fixture, allowing for headless data validation.

```
test('API Test', async ({ request }) => {
  const response = await request.get('/api/data');
  expect(response.ok()).toBeTruthy();
  const body = await response.json();
  expect(body.name).toBe('John');
});
```



# Q10: WHY PAGE OBJECT MODEL (POM)?

POM is a design pattern that creates an object repository for web elements and reusable logic.



## Reusability

Write selectors once, use them across multiple test files.



## Easy Maintenance

UI changes? Only update the Page class, not every test.



## Readability

Tests look like plain English actions (e.g., `loginPage.submit()`).

# Ready to Ace your **Playwright Interview?**

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Call for Training

# IMAGE SOURCES



<https://playwright.dev/img/playwright-logo.svg>

Source: [playwright.dev](https://playwright.dev)



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Source: [currents.dev](https://currents.dev)



<https://colorlib.com/wp/wp-content/uploads/sites/2/elaadmin-dashboard-template.png>

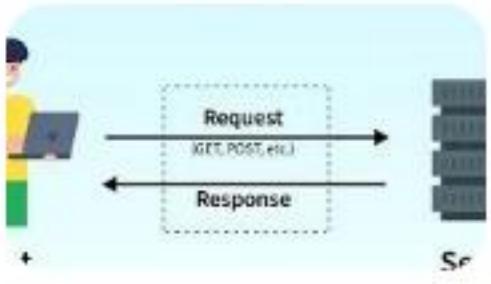
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# IMAGE SOURCES



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