



ANGULAR  
**ARCHITECTS**  
INSIDE KNOWLEDGE

# Playwright Workshop



## 4 - Advanced II

# Agenda

- Miscellaneous
- Network stubbing
- Session storage
- Project Dependencies



ANGULAR  
**ARCHITECTS**  
INSIDE KNOWLEDGE

# Miscellaneous / Step

- Suited for larger Tests
- Element to Structure Tests
- Asynchronous



# Miscellaneous / Step

```
test('order holiday', async ({ page }) => {  
  await test.step('select holiday', async () => {  
    await page.getByRole('link', { name: 'Holidays', exact: true }).click();  
    // ...  
  });  
  
  await test.step('order brochure', async () => {  
    // ...  
  });  
});
```



# Miscellaneous / Soft Assertion

- For Assertions (expect)
- Continues the test on failed assertion
- Test is still marked as failed
- Useful when multiple assertions are used
- Customised expect with soft enabled possible



# Miscellaneous / Soft Assertion (Flavour I)

```
test('order holiday', async ({ page }) => {  
  await expect.soft(page.getByText('Welcome to Eternal')).toBeVisible();  
  await page.getByRole('link', { name: 'Holidays', exact: true }).click();  
  await expect  
    .soft(page.getByText('Holidays', { exact: true }))  
    .toBeVisible();  
  
  // ...  
});
```



# Miscellaneous / Soft Assertion (Flavour II)

```
import { expect as baseExpect, test } from '@playwright/test';

const expect = baseExpect.configure({ soft: true });

test('order holiday', async ({ page }) => {

  await expect(page.getByText('Welcome to Eternal')).toBeVisible();

  await page.getByRole('link', { name: 'Holidays', exact: true }).click();

  await expect(page.getByText('Holidays', { exact: true })).toBeVisible();

  // ...

});
```



# Miscellaneous / Sequential (Serial)

- `test.describe.configure({ mode: 'serial' });`
- Edge Case
- Tests (complete file) run in sequential order
- Complete sequence stops on failure
- Retried altogether
- Runs in same worker process (?)
  - allows for state between tests





# Miscellaneous / Failing

- `test.fail('feature not implemented yet')`
- `test.fail('failing because it is weekend', () => new Date().getDay() === 0);`
  - Conditional Version



# Network stubbing

- Intercept the network
- Verify requests
- Abort them
- Modify them
- Response: main use case



# Use case: logging

- No impact on the application at all
- `page.on("request", (req) => console.log(req.url()));`



# Use case: Waiting for a certain request

```
test('holidays should be called', async ({ page }) => {  
  const holidaysRequest = page.waitForResponse((response) => {  
    return response.url() === 'https://api.eternal-holidays.net/holiday';  
  });  
  
  await page.goto('');  
  
  await page.getByTestId('btn-holidays').click();  
  
  await expect(page.getByTestId('holiday-card')).toHaveCount(9);  
  
  await holidaysRequest;  
});
```



# Use case: Requesting from test itself (API Test)

```
test('should count the holidays and verify', async ({ page, request }) => {  
  const response = await request.get(  
    'https://api.eternal-holidays.net/holiday'  
  );  
  expect(response.ok()).toBeTruthy();  
  const holidays = (await response.json()) as unknown[];  
  const holidayCount = holidays.length;  
  
  await page.goto('');  
  await page.getByRole('link', { name: 'Holidays', exact: true }).click();  
  await expect(page.getByTestId('holiday-card')).toHaveCount(holidayCount);  
});
```



# Use case: stubbing

```
page.route("https://api.eternal-holidays.net/holidays", (route) =>
  route.fulfill({
    status: 200,
    json: [
      {
        id: 1,
        title: "Cambodia",
        teaser: "Discover old temples and the old Khmer Empire",
        imageUrl:
          "https://eternal-app.s3.eu-central-1.amazonaws.com/assets/AngkorWatSmall.jpg",
        description:
          "Cambodia is known for Angkor Wat which is the most visited attraction in whole Asia. Started out
as an Hindu temple, it was gradually transformed to a Buddhist one. Beware, it can be very humid there.",
      },
    ],
  })
);
```





# Demo

# Caching authentication

1. Global script that runs one time at the start
2. Signs in
3. Persists localStorage, cookies in a file
4. Reload on demand





# Browser Context: Storing

```
await page.context().storageState({ path: 'session.json' });
```

- Persists Cookies and localStorage
- Multiple States possible (via separate files)
- Usually executed in
  - Global Setup Function
  - Setup Project Type



# Browser Context: Loading

- Project-Level

- {  
    name: 'chromium',  
    use: { ...devices['Desktop Chrome'], storageState: 'session.json' }  
}

- Test-Level

- test.use({ storageState: 'session.json' });





# Demo

# Project Types

- Project Types can depend on each other
- Use Cases
  - Setup
  - Teardown
- "Not-Main" Types usually run with a single browser



# Project Dependencies

```
projects: [  
  {  
    name: 'smoke',  
    use: { browserName: 'chromium' },  
    testMatch: 'smoke.ts',  
  },  
  {  
    name: 'chromium',  
    use: { ...devices['Desktop Chrome'] },  
    dependencies: ['smoke'],  
  }  
]
```



A photograph of two people, a man and a woman, working on computers in a lab or office setting. The man, with curly hair and wearing a blue shirt, is seen from the back, looking at a large monitor displaying code. The woman, with long brown hair and wearing a dark jacket, is seen in profile, looking at another monitor also displaying code. The background is a plain, light-colored wall. The text "Lab Time" is overlaid in large white font at the bottom center.

# Lab Time