

06 End-to-End Testing: External Services

Testing React Apps

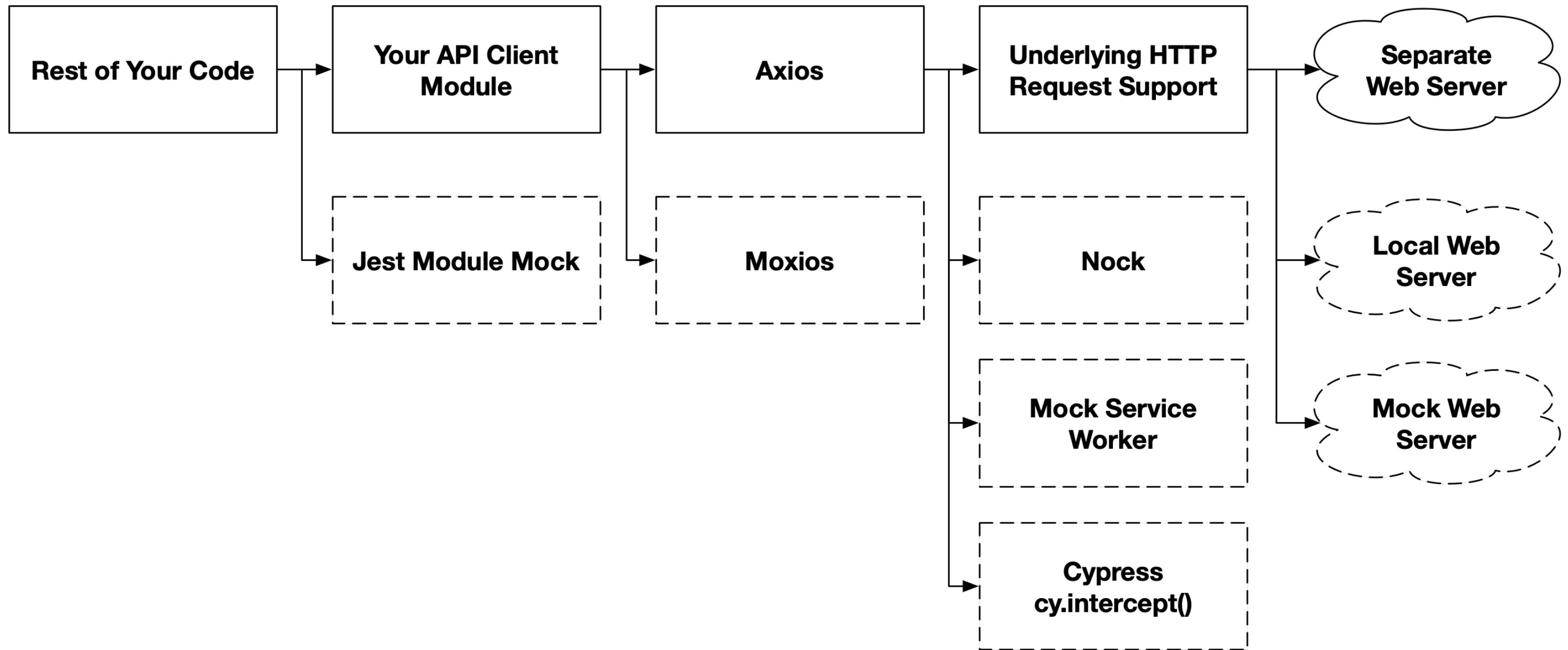
Connecting to the real backend:

Upsides?

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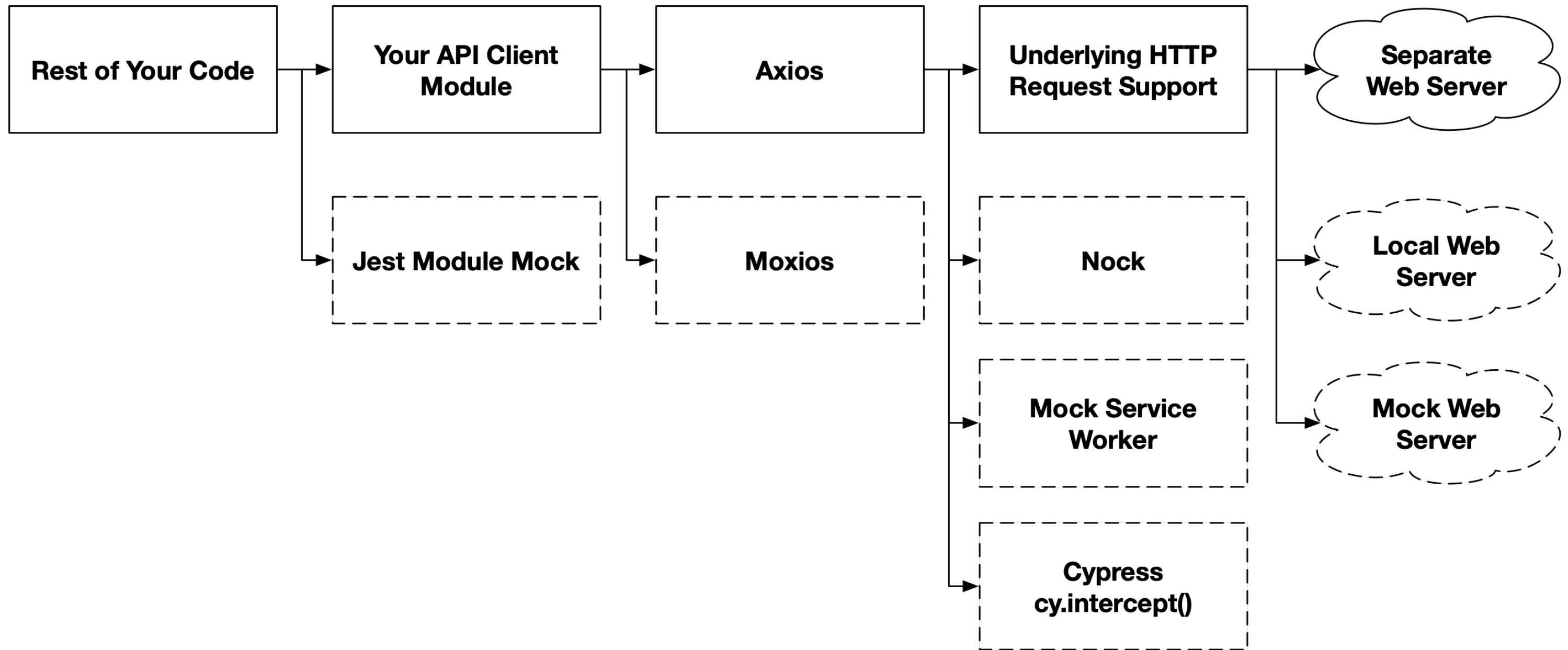
Downsides?

Options for Mocking Web Service Requests



Local web server?

Options for Mocking Web Service Requests



Intercept the requests and mock responses

Network Request Testing Strategies - Cypress Guides

`cy.intercept()`

Allows you to configure responses to be returned instead of real requests being made

To the code!

```
cy.intercept(  
  'GET',  
  'https://rn-testing-api.herokuapp.com/widgets',  
  [  
    {id: 1, name: 'Widget 1'},  
    {id: 2, name: 'Widget 2'},  
  ]  
);
```

```
cy.intercept(method, url, staticResponse)
```

Testing Outgoing Data

```
cy.intercept(method, url, staticResponse).as( 'myNamedRequest' );

// user actions

cy.wait( '@myNamedRequest' )
  .its( 'request.body' )
  .should( 'deep.equal', {someKey: 'someValue'} );
```

Don't Fear the wait()

Exercise 4

- `react-testing-exercises`
- `exercises/Exercise-4.md`

For help:

- Cypress Docs: Writing Your First E2E Test
- Cypress Docs: Network Requests - Routing
- Cypress Docs: Network Requests - Assertions

Recommendation:

- Automate testing against `cy.intercept()`
- Manually test integration with real service
- If you need to automate testing with real service, do a small separate test suite

To Discuss:

For a real app you work on, what would be the most valuable scenarios to end-to-end test?

Do you have any uncertainty about how you could automate those scenarios?