

Building the Right Product and Building It Right

A glimpse into Extreme Programming and Atomic Design

Rita Castro | SDC:LX | Remote React Summit 2021

Hello ~~World~~ Remote React Summit!



Building the Right Product and Building It Right



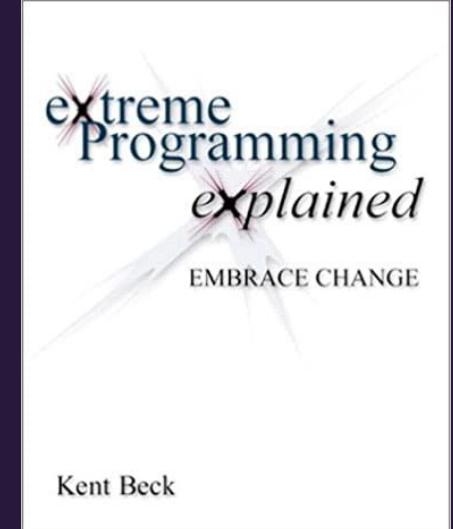


SOFTWARE
DEVELOPMENT
CENTER:LISBON



Extreme Programming

XP is an agile software development framework that aims to produce higher quality software, and increase the quality of life for the development team



Values



Communication



Simplicity



Feedback

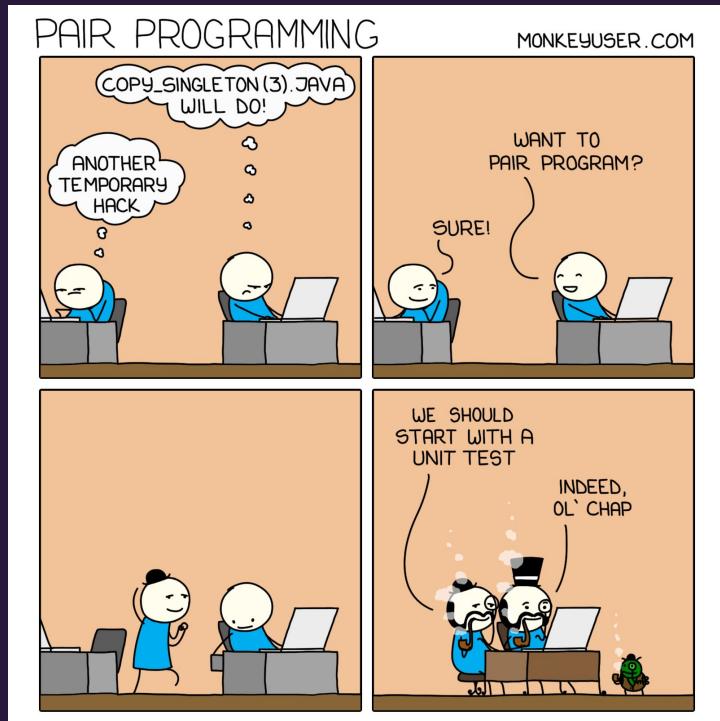


Courage

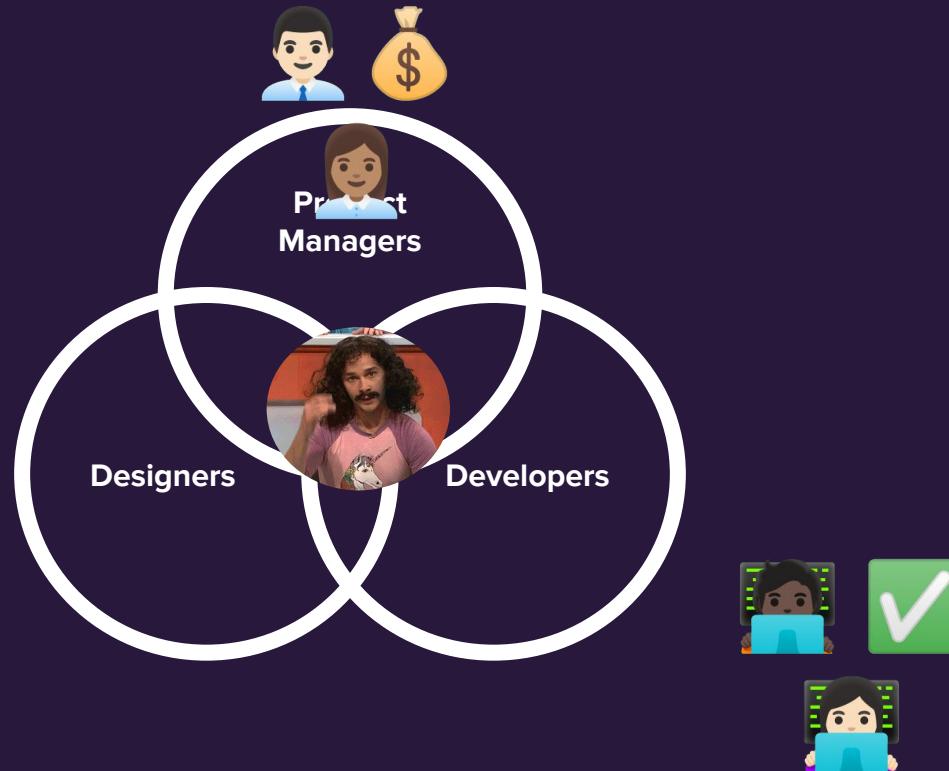


Respect

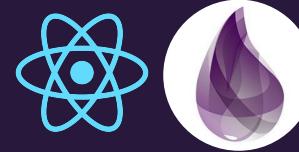
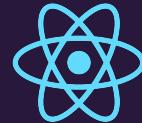
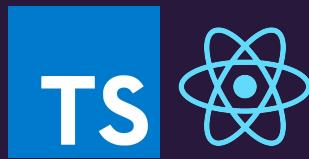
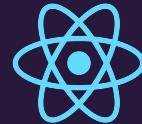
Practices



Balanced Teams



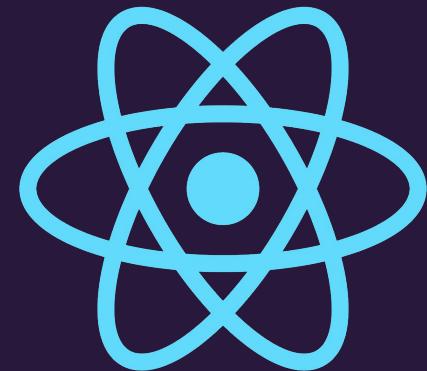
Me in the SDC:LX



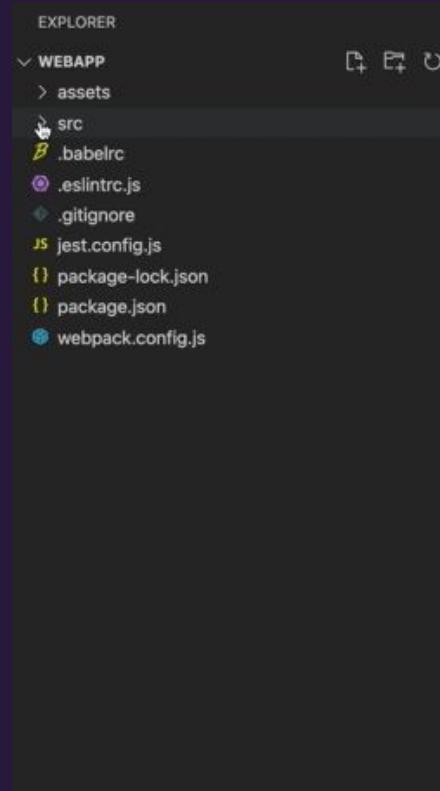
Why React?

“making it painless to create interactive UIs”

*“encapsulated components ... then
compose them to make complex UIs”*



Feature driven development



Atomic Design

It “details all that goes into creating and maintaining robust design systems, allowing you to roll out higher quality, more consistent UIs faster than ever before”.



Atoms

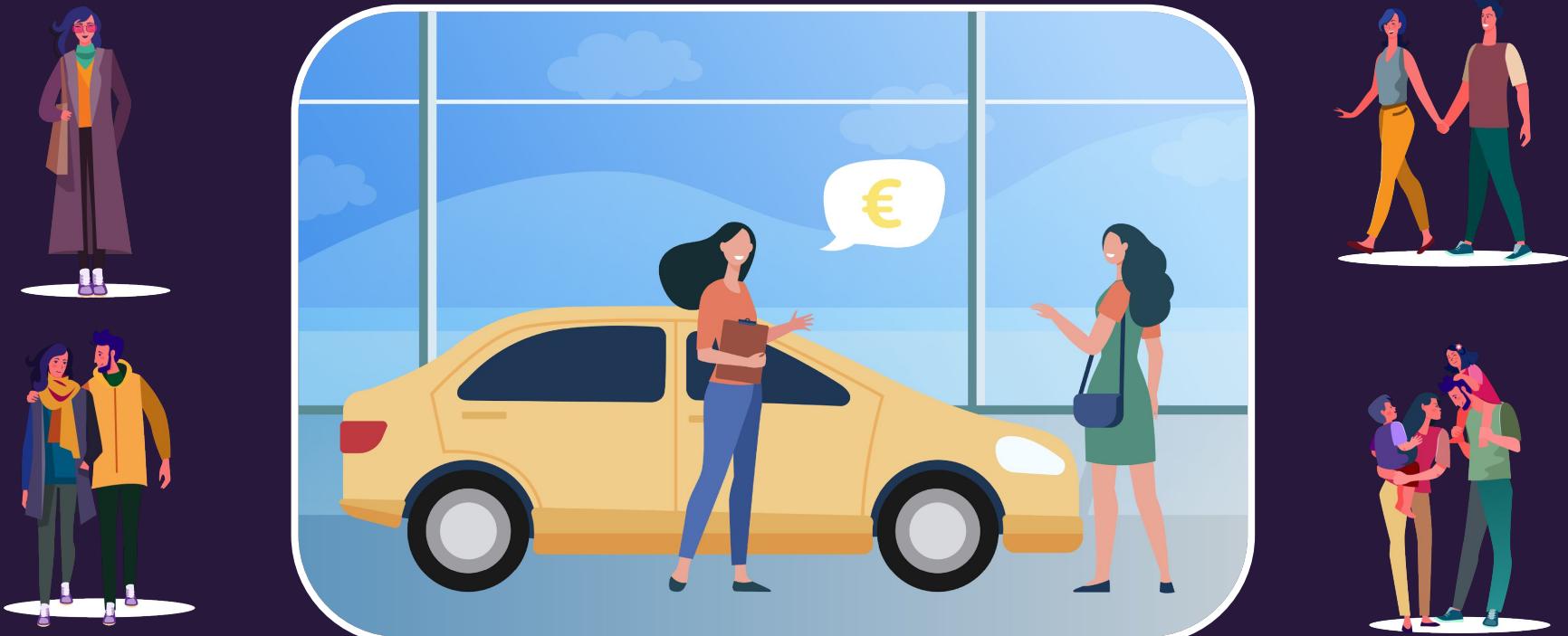
Molecules

Organisms

Templates

Pages

And now, this...



User Interviews with Dealers







Dashboard

23
ORDERS RECEIVED

42
IN PRODUCTION

6
IN TRANSIT

6
ARRIVED

420
HANDED OVER

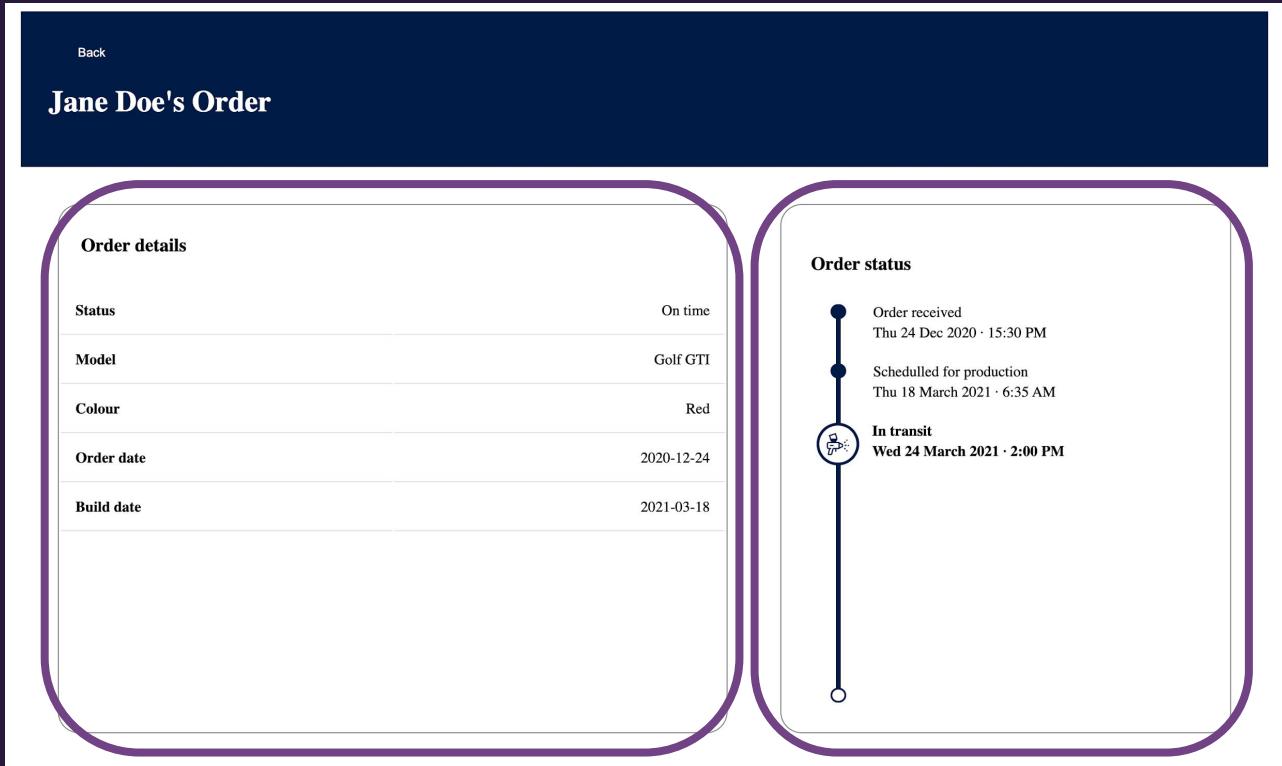
All orders

Search Filter (0)

Customer	Vehicle	Status	Order progress	Arrival date	Order details
Jane Doe	Golf GTI	On time	In production	15/04/2021	View details
Dana Scully	ID.3	Delayed	Order received	22/07/2021	View details
Fox Mulder	T-Roc	Early	In transit	20/05/2021	View details

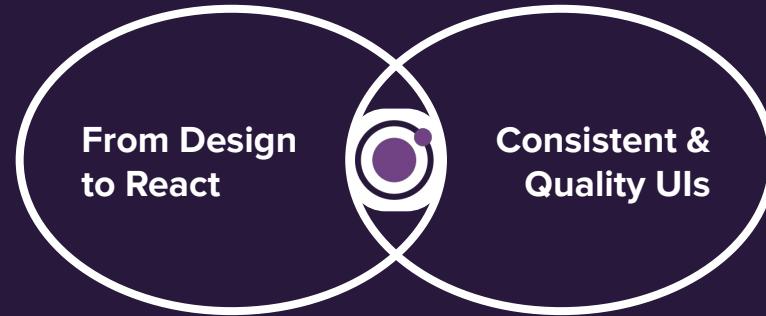
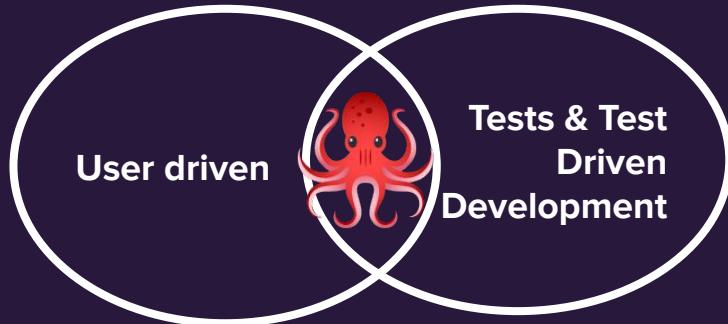
Mocked designs

Details Page

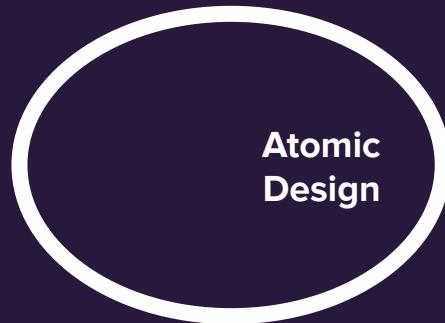
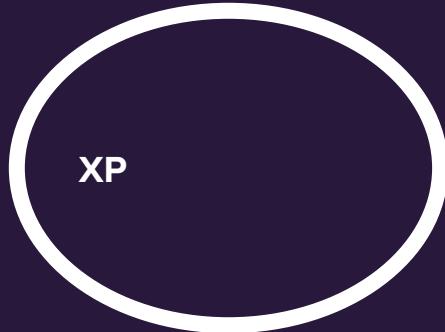


Mocked designs

Remember this?



It becomes this...



Write a failing test

... but which one?

Start small...



From Designs to Atomic components

23 ORDERS RECEIVED 42 IN PRODUCTION 6 IN TRANSIT 6 ARRIVED 420 HANDED OVER

All orders

Customer	Vehicle	Status	Order progress	Arrival date	Order details
Jane Doe	Golf GTI	On time	In production	15/04/2021	View details
Dana Scully	ID.3	Delayed	Order received	22/07/2021	View details
Fox Mulder	T-Roc	Early	In transit	20/05/2021	View details



- Unbreakable components
- Base styles from the UI

[View details](#)

15/04/2021

ID.3 Style



ViewDetails as an Atom

```
import React from "react"
import { render, screen } from "@testing-library/react"
import ViewDetailsButton from "./view-details-button"
import { Link } from "react-router-dom"

jest.mock("react-router-dom", () => ({
    ...jest.requireActual("react-router-dom"),
    Link: jest.fn().mockImplementation(({ children }) => children)
}))

describe("ViewDetails button", () => {
    it("shows the 'See Details' that will takes us somewhere", () => {
        render(
            <ViewDetailsButton to="/take-me-to-react-summit-in-amsterdam" />
        )
        expect(screen.getByText("View details")).toBeInTheDocument()

        expect(Link).toHaveBeenCalledWith(expect.objectContaining(
            { to: "/take-me-to-react-summit-in-amsterdam" }
        ), {})
    })
})
```

```
1 import React from "react"
2
3 const ViewDetailsButton = () => {
4
5     return null
6 }
7
8 export default ViewDetailsButton
9
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL 1: node + ☰ 🗑️ ⌂

FAIL src/ui/atoms/view-details-button/view-details-button-with-mocks.test.jsx

ViewDetails button

- x shows the 'See Details' that will takes us somewhere (19 ms)

● **ViewDetails button > shows the 'See Details' that will takes us somewhere**

TestingLibraryElementError: Unable to find an element with the text: View details. This could be because the text is broken up by multiple elements. In this case, you can provide a function for your text matcher to make our matcher more flexible.

```
<body>
  <div />
</body>
```

15 | <ViewDetailsButton to="/take-me-to-react-summit-in-amsterdam" />
16 |
17 | expect(screen.getByText("View details")).toBeInTheDocument()
18 |
19 | expect(Link).toHaveBeenCalledWith(expect.objectContaining(
20 | { to: "/take-me-to-react-summit-in-amsterdam" }

at Object.getElementError (node_modules/@testing-library/dom/dist/config.js:37:19)
at node_modules/@testing-library/dom/dist/query-helpers.js:90:38
at node_modules/@testing-library/dom/dist/query-helpers.js:62:17
at getByText (node_modules/@testing-library/dom/dist/query-helpers.js:111:19)
at Object.<anonymous> (src/ui/atoms/view-details-button/view-details-button-with-mocks.test.jsx:17:23)

Test Suites: 1 failed, 1 total
Tests: 1 failed, 1 total
Snapshots: 0 total
Time: 2.767 s, estimated 3 s

ran all test suites matching /src/ui/atoms/view-details-button/view-details-button-with-mocks/.test/.jsx/

```
1 import React from "react"
2
3 const ViewDetailsButton = () => {
4   return <p>View details</p>
5 }
6
7
8 export default ViewDetailsButton
9
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL 1: node

FAIL src/ui/atoms/view-details-button/view-details-button-with-mocks.test.jsx

ViewDetails button

- x shows the 'See Details' that will takes us somewhere (23 ms)

● **ViewDetails button > shows the 'See Details' that will takes us somewhere**

```
expect(jest.fn()).toHaveBeenCalled(...expected)

Expected: ObjectContaining {"to": "/take-me-to-react-summit-in-amsterdam"}, {}

Number of calls: 0
```

17 | expect(screen.getByText("View details")).toBeInTheDocument() ✓
18 |
19 | > 19 | expect(Link).toHaveBeenCalled(expect.objectContaining(
20 | { to: "/take-me-to-react-summit-in-amsterdam" }
21 |), {})
22 | })

at Object.<anonymous> (src/ui/atoms/view-details-button/view-details-button-with-mocks.test.jsx:19:22)

Test Suites: 1 failed, 1 total
Tests: 1 failed, 1 total
Snapshots: 0 total
Time: 4.567 s

Ran all test suites matching /src\ui\atoms\view-details-button\view-details-button-with-mocks\.test\.jsx/i.

Watch Usage: Press w to show more. □



```
1 import React from "react"
2 import { Link } from "react-router-dom"
3
4 const ViewDetailsButton = ({ to }) => {
5
6   return <Link className="sassy-link" to={to}>
7     | View details
8   </Link>
9 }
10
11 export default ViewDetailsButton
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

1: node



PASS src/ui/atoms/view-details-button/view-details-button-with-mocks.test.jsx
ViewDetails button
✓ shows the 'See Details' that will takes us somewhere (21 ms)

Test Suites: 1 passed, 1 total

Tests: 1 passed, 1 total

Snapshots: 0 total

Time: 3.291 s

Ran all test suites matching /src/ui/atoms/view-details-button/view-details-button-with-mocks.test.jsx

Watch Usage: Press w to show more.[]



ViewDetails as an Atom - revisited

```
import React from "react"
import { render, screen } from "@testing-library/react"
import ViewDetailsButton from "./view-details-button"
import { MemoryRouter } from "react-router-dom"

describe("ViewDetails button", () => {
  it("shows the 'See Details' that will takes us somewhere", () => {
    render(
      <MemoryRouter initialEntries={[ "/lisbon" ]}>
        <ViewDetailsButton to="/take-me-to-react-summit-in-amsterdam" />
      </MemoryRouter>
    )

    const viewDetails = screen.getByRole("link", { name: "View details" })
    expect(viewDetails).toBeInTheDocument()
    expect(viewDetails).toHaveAttribute(
      "href", "/take-me-to-react-summit-in-amsterdam"
    )
    expect(viewDetails).toHaveClass("sassy-link")
  })
})
```

You do you

- There is no right or wrong
- Team's decision



From Designs to Atomic components

23 ORDERS RECEIVED

42 IN PRODUCTION

6 IN TRANSIT

6 ARRIVED

420 HANDED OVER

Customer	Vehicle	Status	Order progress	Arrival date	Order details
Jane Doe	Golf GTI	On time	In production	15/04/2021	<button>View details</button>
Dana Scully	ID.3	Delayed	Order received	22/07/2021	<button>View details</button>
Fox Mulder	T-Roc	Early	In transit	20/05/2021	<button>View details</button>



- Atoms bonded together
- Bring functionality to the UI

Search

In transit

The Progress molecule...

```
src > ui > molecules > progress > ✘ progress.test.jsx > ...
1 import React from "react"
2 import { render, screen } from "@testing-library/react"
3 import Progress from "./progress"
4 import InTransitIcon from "../../atoms/icons/in-transit"
5
6 jest.mock("../../atoms/icons/in-transit", () => {
7   return {
8     __esModule: true,
9     default: jest.fn().mockReturnValue(null)
10   }
11 })
12
13 describe("Progress molecule", () => {
14   it("renders the visual elements when status is 'In transit'", () => {
15     render(
16       <Progress />
17     )
18     expect(screen.getByText("In transit")).toBeInTheDocument()
19     expect(InTransitIcon).toHaveBeenCalled()
20   })
21 })
22
23 })
24 })
25
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL 1: node

FAIL src/ui/molecules/progress/progress.test.jsx
Progress molecule
x renders the visual elements when status is 'In transit' (6 ms)

- Progress molecule > renders the visual elements when status is 'In transit'

TestingLibraryElementError: Unable to find an element with the text: In transit. This could be because the text is broken up by multiple elements. In this case, you can provide a function for your text matcher to make your matcher more flexible.

```
<body>
  <div>
    <div />
  </div>
</body>
```

..is composed of two Atoms

```
src > ui > molecules > progress > progress.jsx > ...
1  import React from "react"
2  import InTransitIcon from "../../atoms/icons/in-transit"
3  import Text from "../../atoms/text/text"
4
5  const Progress = () => {
6
7    return (
8      <div>
9        <InTransitIcon />
10       <Text>In transit</Text>
11     </div>
12   )
13 }
14
15 export default Progress
```

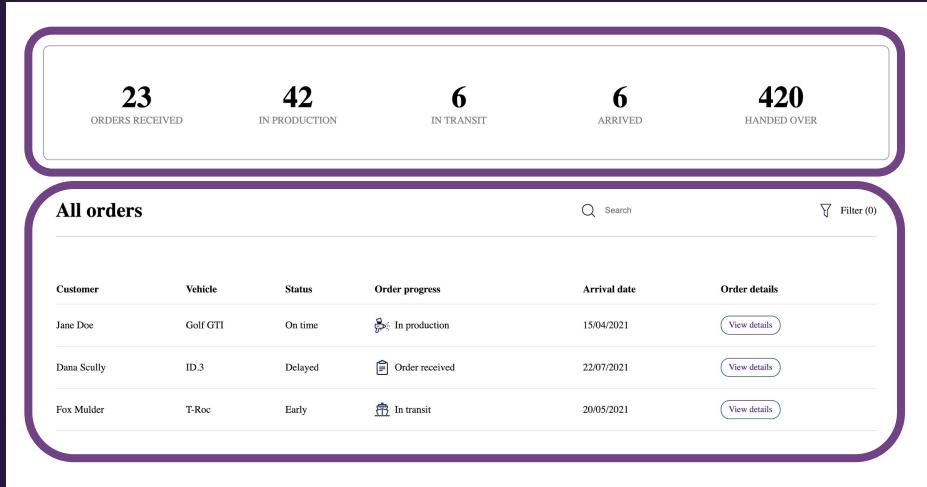
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL 1: node ▾ + ☒ ✎ ^ ×

PASS src/ui/molecules/progress/progress.test.jsx
Progress molecule
✓ renders the visual elements when status is 'In transit' (24 ms)

Test Suites: 1 passed, 1 total
Tests: 1 passed, 1 total
Snapshots: 0 total
Time: 1.402 s
Ran all test suites matching /src/ui/molecules/progress/progress/.test.jsx/i.

Watch Usage: Press w to show more. ▾

From Designs to Atomic components



- A flock of atoms, molecules and even organisms!
- **User Value**

OrderTable is an Organism!

```
1 import React from "react"
2 import { render, screen } from "@testing-library/react"
3 import OrdersList from "./orders-list"
4 import FiltersButton from "../../molecules/filters-button/filters-button"
5 import SearchBar from "../../molecules/search-bar/search-bar"
6 import OrdersTable from "../../molecules/orders-table/orders-table"
7
8 > jest.mock("../../molecules/filters-button/filters-button", () => {-
9   })
10
11 > jest.mock("../../molecules/search-bar/search-bar", () => {-
12   })
13
14 > jest.mock("../../molecules/orders-table/orders-table", () => {-
15   })
16
17 describe('OrdersList organism', () => {
18   it('should have a title, the search bar, the filters button and the table with the orders', () => {
19     render(<OrdersList />)
20
21     expect(screen.getByText("All orders")).toBeInTheDocument()
22
23     expect(SearchBar).toHaveBeenCalled()
24     expect(FiltersButton).toHaveBeenCalled()
25     expect(OrdersTable).toHaveBeenCalled()
26   })
27
28 })
29
30
31
32
33
34
35
36
37
38
39
40
41
42
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: node + ⌂ ⌄ ⌁ ⌂ ⌃ ⌁

```
OrdersList organism
  × should have a title, the search bar, the filters button and the table with the orders (6 ms)

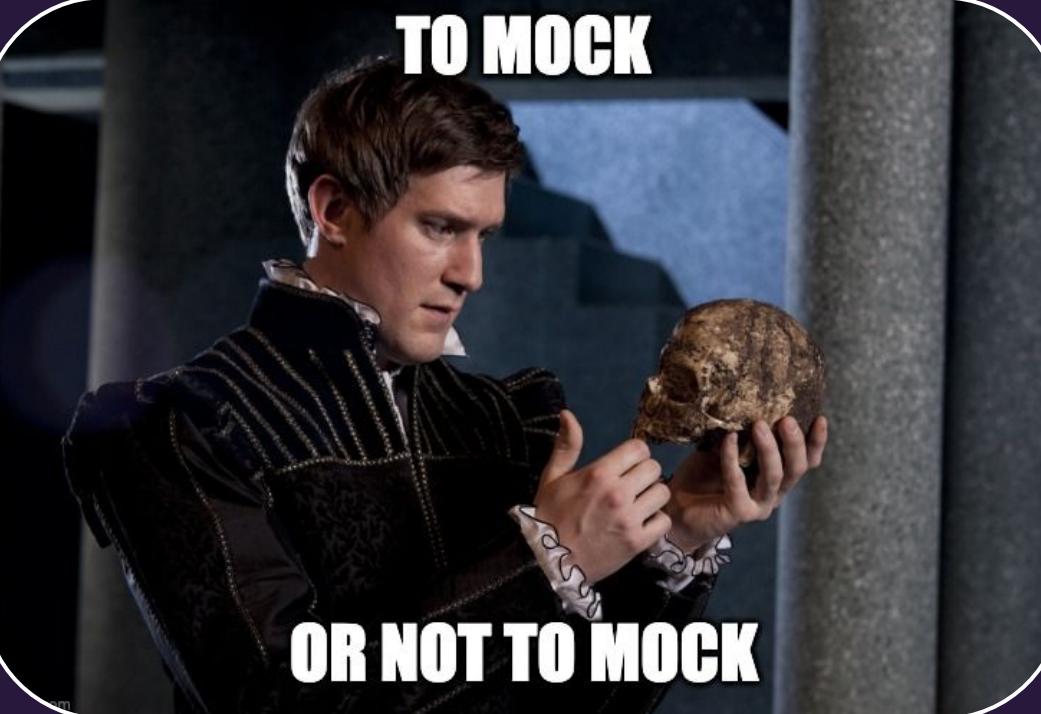
● OrdersList organism › should have a title, the search bar, the filters button and the table with the orders

TestingLibraryElementError: Unable to find an element with the text: All orders. This could be because the text is broken up by multiple elements. In this case, you can provide a function for your text matcher to make your matcher more flexible.

<body>
  <div />
</body>

32 |       render(<OrdersList />)
33 |
34 > 34   expect(screen.getByText("All orders")).toBeInTheDocument()
35 |
36   expect(SearchBar).toHaveBeenCalled()
37   expect(FiltersButton).toHaveBeenCalled()
```

TO MOCK



OR NOT TO MOCK

Pros & Cons on Mocking

👍 Encapsulation

No need to know details

👍 Clear view of elements used

👍 No cheating!!!

<p>Bazinga</p>vs <Text>Bazinga</Text>

👍 Easy to onboard new team members

👎 Further away from User experience

👎 ““Shallow”” render going on

👎 Might duplicate tests

👎 Mocks can be tricky
Specially with third party libs



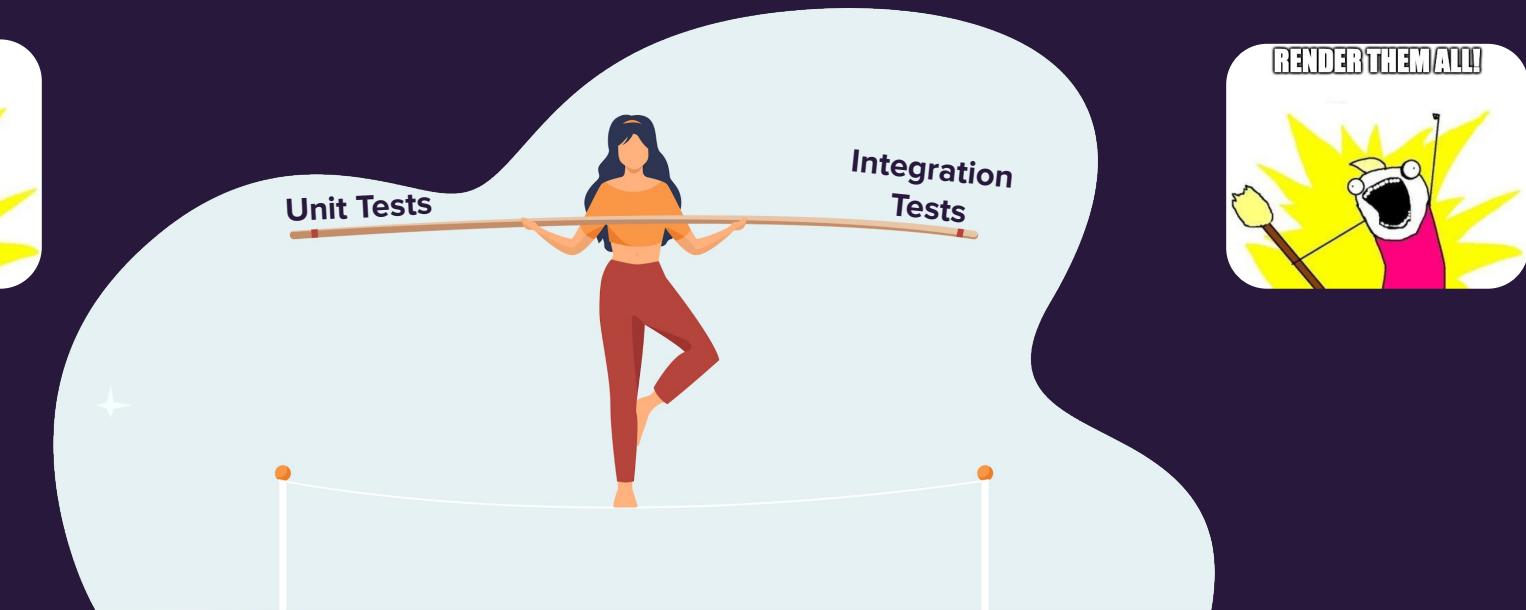
Find your balance



Unit Tests

Integration
Tests

RENDER THEM ALL!



The more your tests resemble the way your software is used, the more confidence they can give you.



[Kent C. Dodds, <https://twitter.com/kentcdodds/status/977018512689455106?lang=en>]

```
import React from "react"
import { MemoryRouter, Route, Switch } from "react-router"
import { render, screen } from "@testing-library/react"
import userEvent from '@testing-library/user-event'
import OrdersList from "./orders-list"
import { getOrders } from "../../services/get-orders"

jest.mock("../../services/get-orders", () => ({
  getOrders: jest.fn()
}))

describe("OrdersList organism", () => {
  it("shows the order list and we can click to 'View Details'", () => {
    getOrders.mockReturnValue([
      {
        id: 1024,
        name: "Rita Castro",
        vehicle: "T-Roc",
        status: "delayed",
        progress: "order received",
        arrivalDate: "2021-07-24",
      }
    ])

    render(
      <MemoryRouter initialEntries={["/"]}>
        <Switch>
          <Route exact path="/" render={() => <OrdersList />} />
          <Route path="/orders/:orderId" render={() => <div>Stub Details Page</div>} />
        </Switch>
      </MemoryRouter>
    )

    expect(screen.getByRole("heading", { name: "All orders" })).toBeInTheDocument()

    expect(screen.getByText("Rita Castro")).toBeInTheDocument()
    // same goes for the other elements in the table

    const viewDetailsButton = screen.getByRole("link", { name: "View details" })
    userEvent.click(viewDetailsButton)

    expect(screen.getByText("Stub Details Page")).toBeInTheDocument()
  })
})
```

From Designs to Atomic components

23 ORDERS RECEIVED 42 IN PRODUCTION 6 IN TRANSIT 6 ARRIVED 420 HANDED OVER

All orders

Customer	Vehicle	Status	Order progress	Arrival date	Order details
Jane Doe	Golf GTI	On time	In production	15/04/2021	<button>View details</button>
Dana Scully	ID-3	Delayed	Order received	22/07/2021	<button>View details</button>
Fox Mulder	T-Roc	Early	In transit	20/05/2021	<button>View details</button>



- Define a layout
- Place organisms there



From [more] Designs to [more] Atomic components

Back

Jane Doe's Order

Order details

Status	On time
Model	Golf GTI
Colour	Red
Order date	2020-12-24
Build date	2021-03-18

Order status

- Order received
Thu 24 Dec 2020 · 15:30 PM
- Scheduled for production
Thu 18 March 2021 · 6:35 AM
- In transit
 **Wed 24 March 2021 · 2:00 PM**

← Back Wed 20 Mar 2021 · 2:35 PM Friday, 24 March 2021



 In transit
Thu 21 Mar 2021 · 9:30 AM



 Dispatched from factory
Tue 19 Mar 2021 · 10:55 AM

Early

The Dealer's journey

```
import React from "react"
import { render, screen, waitFor, within } from "@testing-library/react"
import userEvent from "@testing-library/user-event"
import VehicleOrderTracker from "./vehicle-order-tracker"

describe("Vehicle order tracker for Remote React Summit 2021", () => {

  it("renders the Dashboard and we can 'View details' of an Order and come 'Back' to the Dashboard", async () => {
    render(<VehicleOrderTracker />)

    const dashboard = screen.getByRole("region", { name: "Dashboard" })
    expect(dashboard).toBeInTheDocument()

    const overviewTabs = within(dashboard).getByRole("tablist")
    expect(overviewTabs).toBeInTheDocument()

    expect(within(dashboard).getByText("All orders")).toBeInTheDocument()
    expect(within(dashboard).getByLabelText("Search for an order")).toBeInTheDocument()
    expect(within(dashboard).getByLabelText("Filter orders")).toBeInTheDocument()

    const scullysOrder = within(dashboard).getByLabelText("Dana Scully's order")
    expect(scullysOrder).toBeInTheDocument()

    const viewDetailsButton = within(scullysOrder).getByRole("link", { name: "View details" })
    userEvent.click(viewDetailsButton)

    expect(screen.queryByRole("region", { name: "Dashboard" })).not.toBeInTheDocument()
    expect(screen.getByRole("region", { name: "Order details" })).toBeInTheDocument()

    const backButton = screen.getByRole("button", { name: "Back" })
    expect(backButton).toBeInTheDocument()

    userEvent.click(backButton)

    await waitFor(() => {
      expect(screen.getByText("All orders")).toBeInTheDocument()
    })
  })
})
```

```
import React from "react"
import OrdersList from "../../organisms/orders-list/orders-list"
import OverviewTabs from "../../organisms/overview-tabs/overview-tabs"

const Dashboard = () => {
  return (
    <div role="region" aria-label="Dashboard">
      <OverviewTabs />

      <OrdersList />
    </div>
  )
}

export default Dashboard
```

The Dealer's journey

The diagram illustrates the development process of a React component. On the left, a screenshot of a Jest test file shows a user interacting with a 'VehicleOrderTracker' component. A dashed box highlights a specific interaction: clicking a 'View details' button for an order. An arrow points from this interaction to the corresponding implementation on the right.

Test Code (Jest Snapshot Test):

```
import React from "react"
import { render, screen, waitFor, within } from "@testing-library/react"
import userEvent from "@testing-library/user-event"
import VehicleOrderTracker from "./vehicle-order-tracker"

describe("Vehicle order tracker for Remote React Summit 2021", () => {
  it("renders the Dashboard and we can 'View details' of an Order and come 'Back' to the Dashboard", async () => {
    render(<VehicleOrderTracker />)

    const dashboard = screen.getByRole("region", { name: "Dashboard" })
    expect(dashboard).toBeInTheDocument()

    const overviewTabs = within(dashboard).getByRole("tablist")
    expect(overviewTabs).toBeInTheDocument()

    expect(within(dashboard).getByText("All orders")).toBeInTheDocument()
    expect(within(dashboard).getByLabelText("Search for an order")).toBeInTheDocument()
    expect(within(dashboard).getByLabelText("Filter orders")).toBeInTheDocument()
    .....
    const scullysOrder = within(dashboard).getByLabelText("Dana Scully's order")
    expect(scullysOrder).toBeInTheDocument()

    const viewDetailsButton = within(scullysOrder).getByRole("link", { name: "View details" })
    userEvent.click(viewDetailsButton)

    expect(screen.queryByRole("region", { name: "Dashboard" })).not.toBeInTheDocument()
    expect(screen.getByRole("region", { name: "Order details" })).toBeInTheDocument()

    const backButton = screen.getByRole("button", { name: "Back" })
    expect(backButton).toBeInTheDocument()

    userEvent.click(backButton)

    await waitFor(() =>
      expect(screen.getByText("All orders")).toBeInTheDocument()
    )
  })
})
```

Component Implementation (OrdersTable.js):

```
import React, { useEffect, useState } from "react"
import { getOrders } from "../../services/get-orders"
import FormattedDateNumbers from "../../atoms/formatted-date/numbers/formatted-date-numbers"
import ViewDetailsButton from "../../atoms/view-details-button/view-details-button"

const OrdersTable = () => {
  const [orders, setOrders] = useState([])

  useEffect(() => setOrders(getOrders), [])

  return (
    <table aria-label="Orders list">
      <thead>
        <tr>
          <th>Customer</th>
          <th>Vehicle</th>
          <th>Status</th>
          <th>Order progress</th>
          <th>Arrival date</th>
          <th>Order details</th>
        </tr>
      </thead>
      <tbody>
        {
          orders.map(order =>
            <tr key={order.id} aria-label={`${order.name}'s order`}>
              <td>{order.name}</td>
              <td>{order.vehicle}</td>
              <td>{order.status}</td>
              <td>{order.progress}</td>
              <td><FormattedDateNumbers value={order.arrivalDate}>/</td>
              <td><ViewDetailsButton to={`/orders/${order.id}`}>/</td>
            </tr>
          )
        }
      </tbody>
    </table>
  )
}
```

The Dealer's journey

```
import React from "react"
import { render, screen, waitFor, within } from "@testing-library/react"
import userEvent from "@testing-library/user-event"
import VehicleOrderTracker from "./vehicle-order-tracker"

describe("Vehicle order tracker for Remote React Summit 2021", () => {
  it("renders the Dashboard and we can 'View details' of an Order and come 'Back' to the Dashboard", async () => {
    render(<VehicleOrderTracker />)

    const dashboard = screen.getByRole("region", { name: "Dashboard" })
    expect(dashboard).toBeInTheDocument()

    const overviewTabs = within(dashboard).getByRole("tablist")
    expect(overviewTabs).toBeInTheDocument()

    expect(within(dashboard).getByText("All orders")).toBeInTheDocument()
    expect(within(dashboard).getByLabelText("Search for an order")).toBeInTheDocument()
    expect(within(dashboard).getByLabelText("Filter orders")).toBeInTheDocument()

    const scullysOrder = within(dashboard).getByLabelText("Dana Scully's order")
    expect(scullysOrder).toBeInTheDocument()

    const viewDetailsButton = within(scullysOrder).getByRole("link", { name: "View details" })
    userEvent.click(viewDetailsButton)
    .....
    expect(screen.queryByRole("region", { name: "Dashboard" })).not.toBeInTheDocument()
    expect(screen.getByRole("region", { name: "Order details" })).toBeInTheDocument()
    .....
    const backButton = screen.getByRole("button", { name: "Back" })
    expect(backButton).toBeInTheDocument()

    userEvent.click(backButton)

    await waitFor(() =>
      expect(screen.getByText("All orders")).toBeInTheDocument()
    )
  })
})
```

```
import React from "react"
import { BrowserRouter, Link, Redirect, Route, Switch } from "react-router-dom"
import Dashboard from "./ui/pages/dashboard/dashboard"
import OrderDetails from "./ui/pages/order-details/order-details"

const VehicleOrderTracker = () => {

  return <BrowserRouter>
    <header>
      <Link to="/">
        
      </Link>
    </header>

    <main>
      <Switch>
        <Route path="/dashboard" render={() => <Dashboard />} />
        <Route path={`/orders/:orderId`} render={() => <OrderDetails />} />
        <Redirect exact from="/" to={"/dashboard"} />
      </Switch>
    </main>

    <footer>
      <p>Rita Castro | 2021</p>
    </footer>
  </BrowserRouter>
}

export default VehicleOrderTracker
```

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```
import React, { useEffect, useState } from "react"
import { useParams } from "react-router"
import { getOrderDetails } from "../../services/get-orders"
import BackButton from "../../atoms/back-button/back-button"

const OrderDetails = () => {
  const params = useParams()

  const [order, setOrder] = useState()

  useEffect(() => {
    setOrder(getOrderDetails(params.orderId))
  }, [1])

  return (
    <div role="region" aria-label="Order details">
      <BackButton />
      <OrderSummary order={order} />
      <OrderStatusTracker order={order} />
    </div>
  )
}

export default OrderDetails
```

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*To deliver high quality software with
consistent and solid UIs faster than ever
before.*

*Any day of the week.
Including Fridays.*

Thank you!



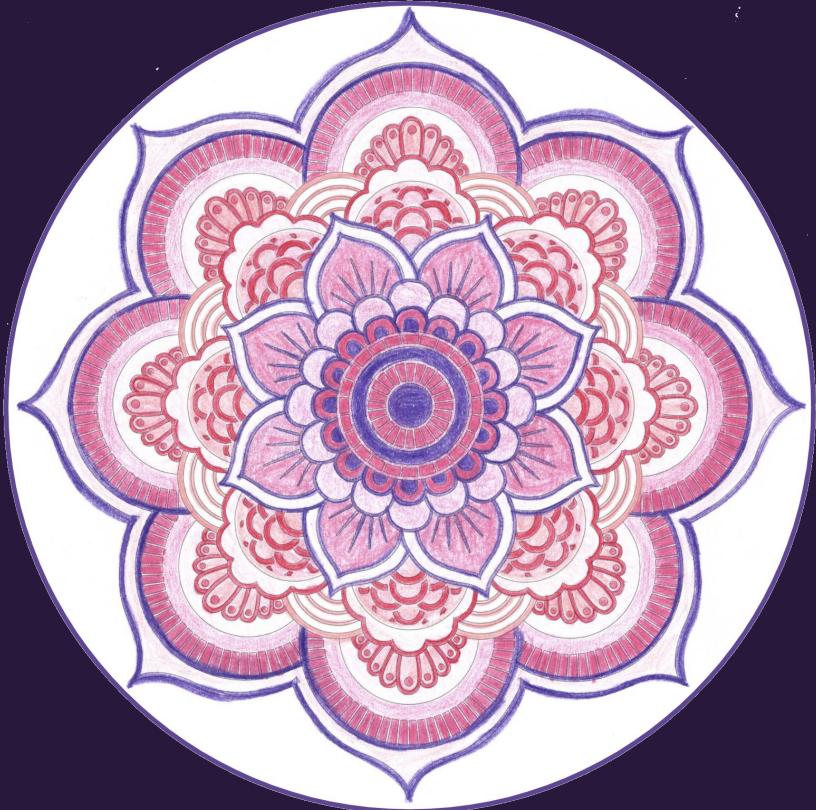
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