



**ISOLATED
COMPONENTS**

**DRIVEN
DEVELOPMENT**

WHAT

WHY

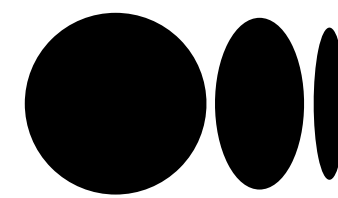
HOW

WFSO

ANDREI PFEIFFER

[e-spres-oh]

CODE DESIGNER



TECHNICAL WRITER



ORGANIZER

WHAT

DEVELOPMENT TECHNIQUE

```
component = f(props)
```

```
f(props) === // unit
```

WHY

COMPONENTS LIBRARY

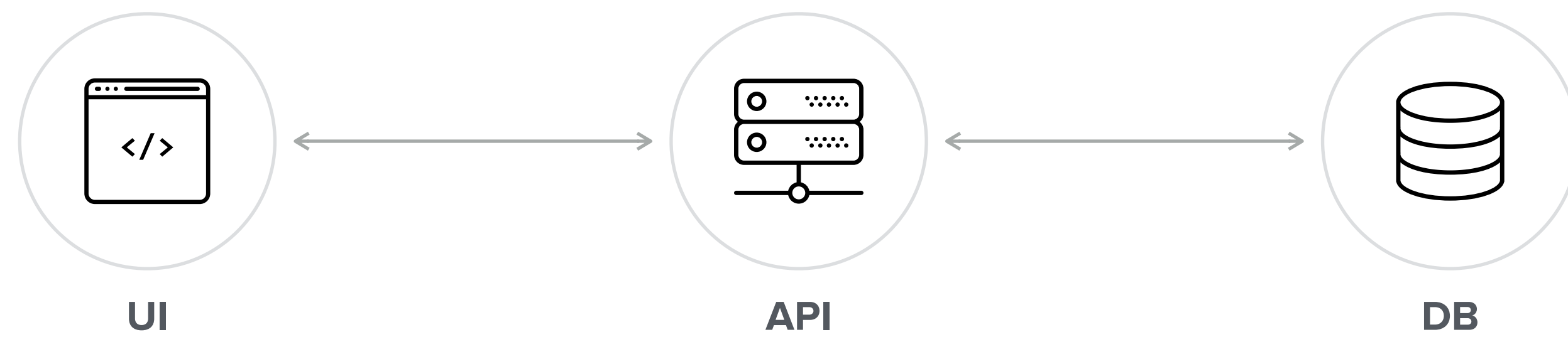
**NEED A PLACE TO
RENDER & USE THEM**

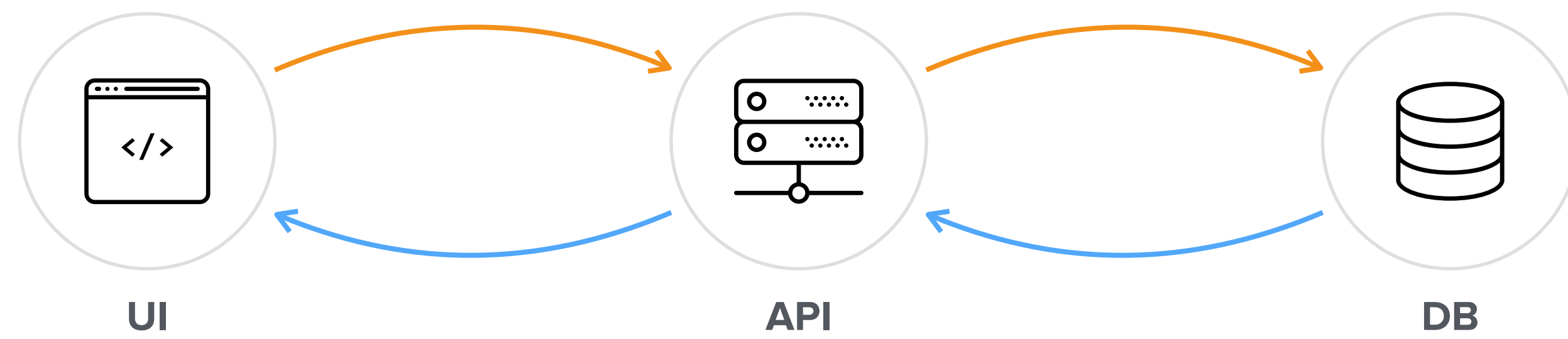


CRUD

UIs

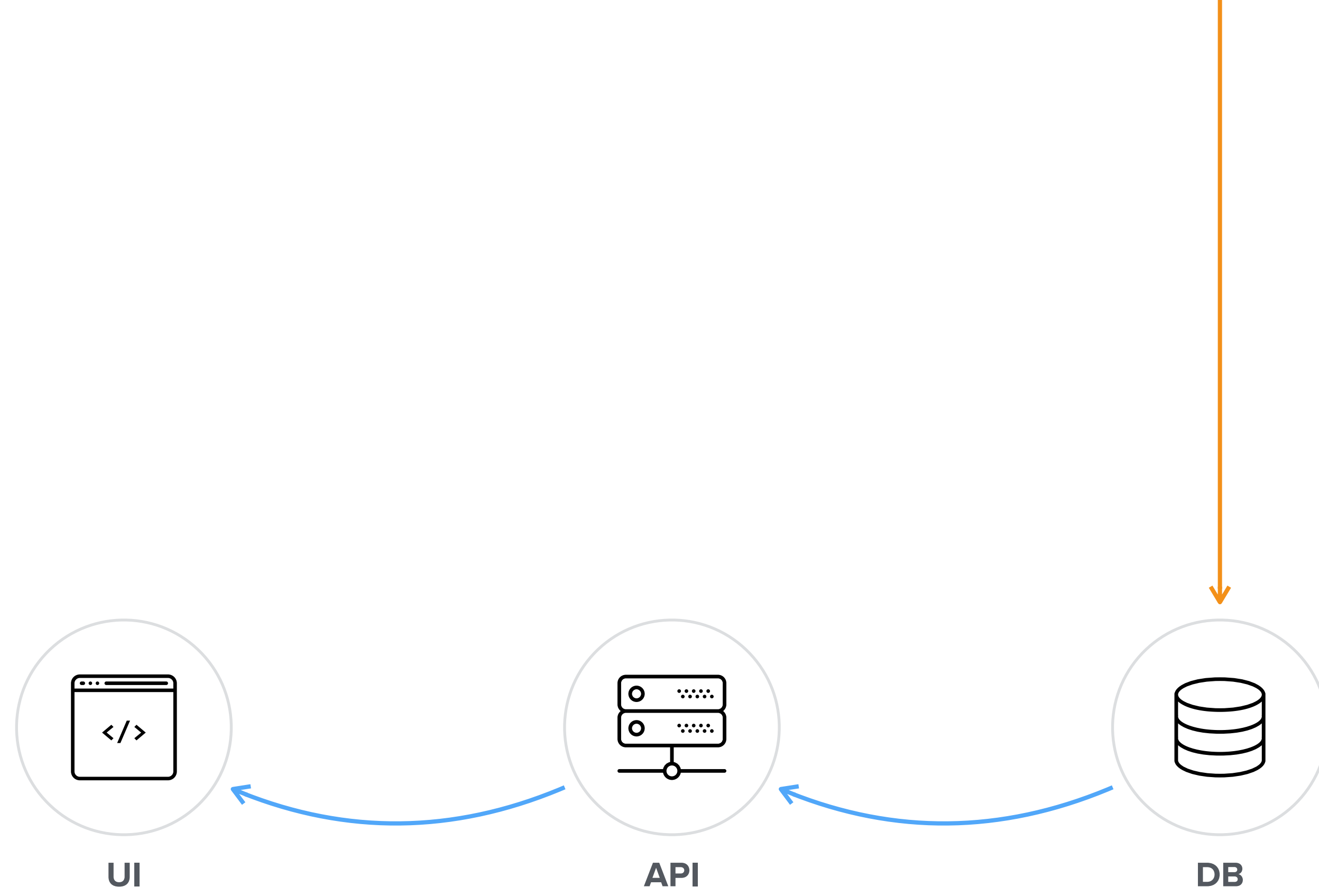
2

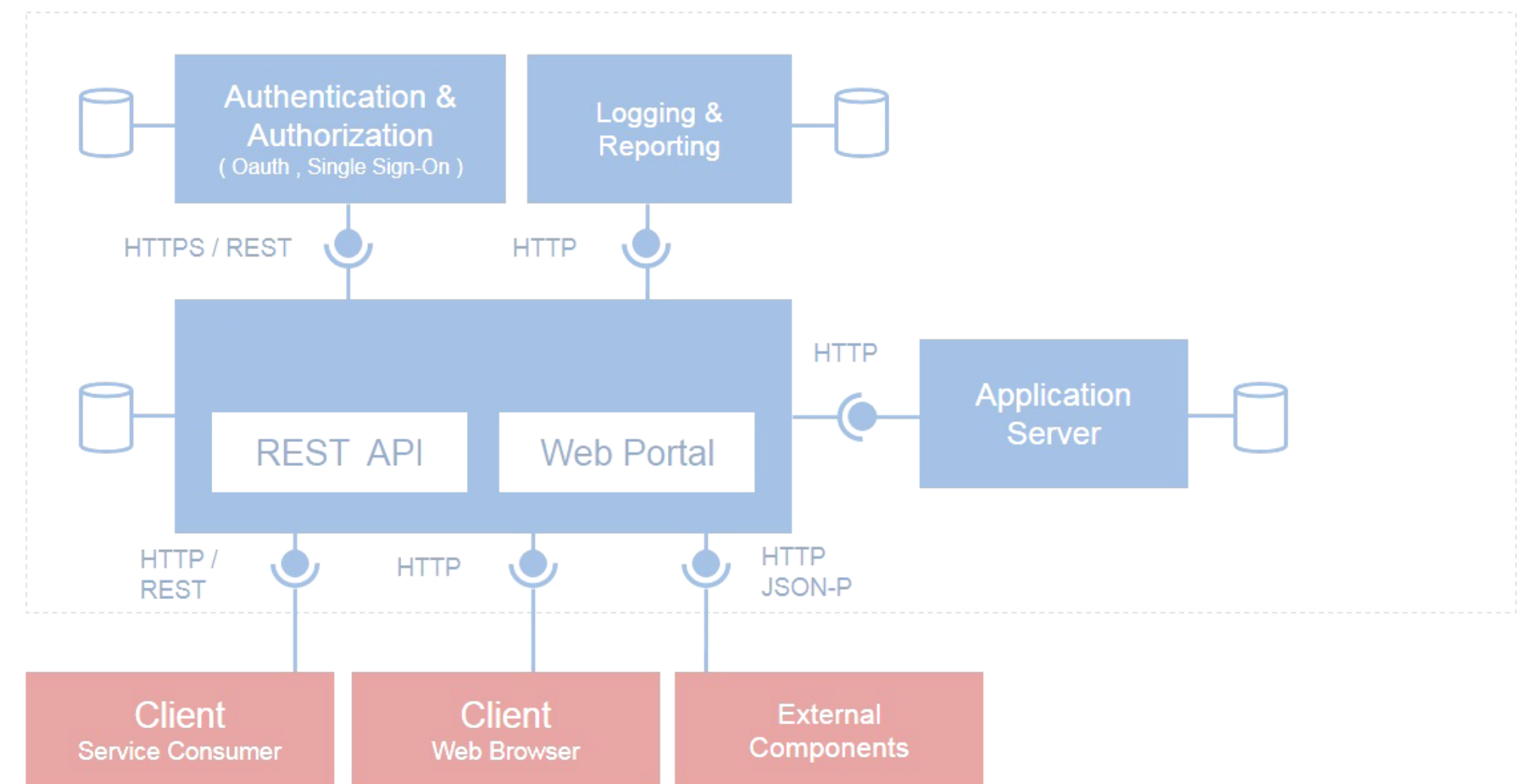




← READ OPERATIONS

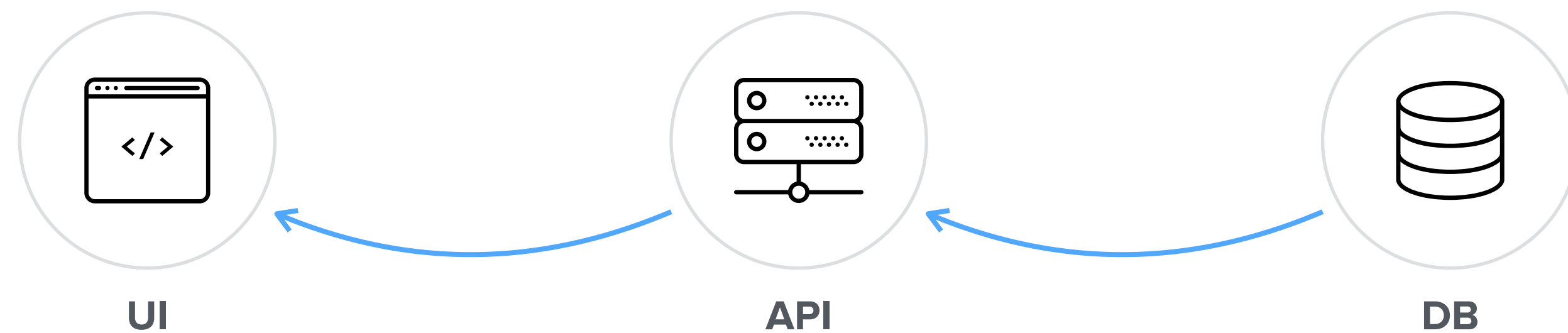
→ WRITE OPERATIONS

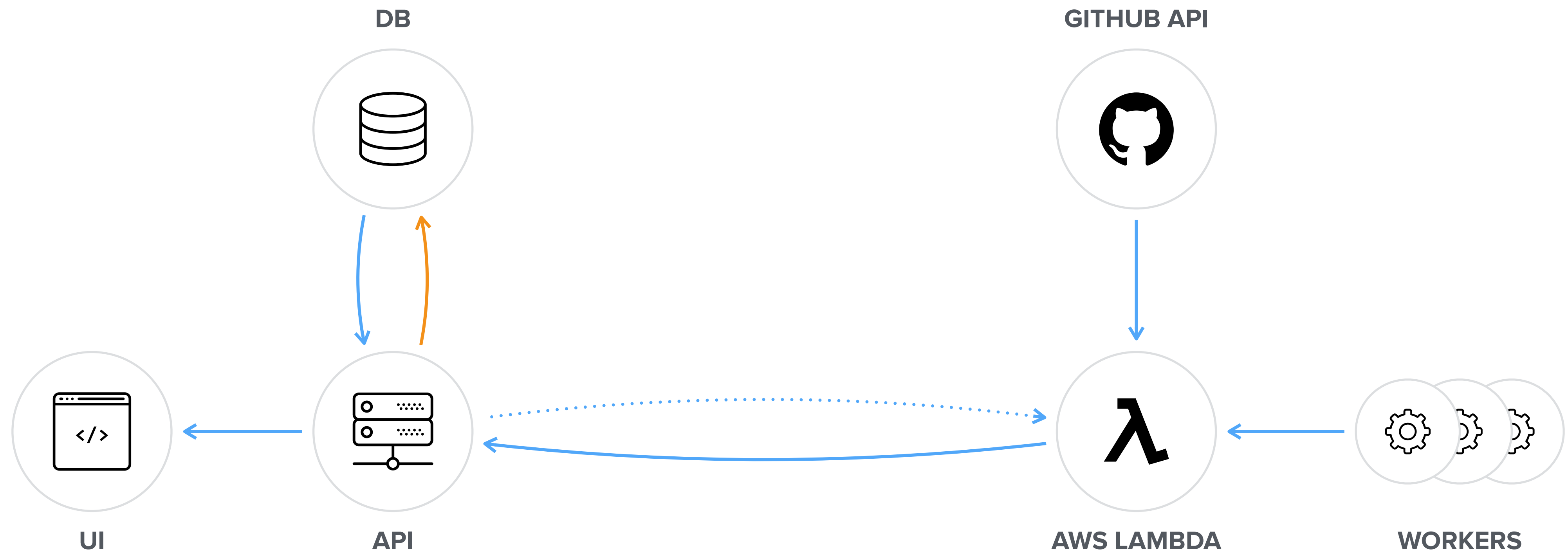


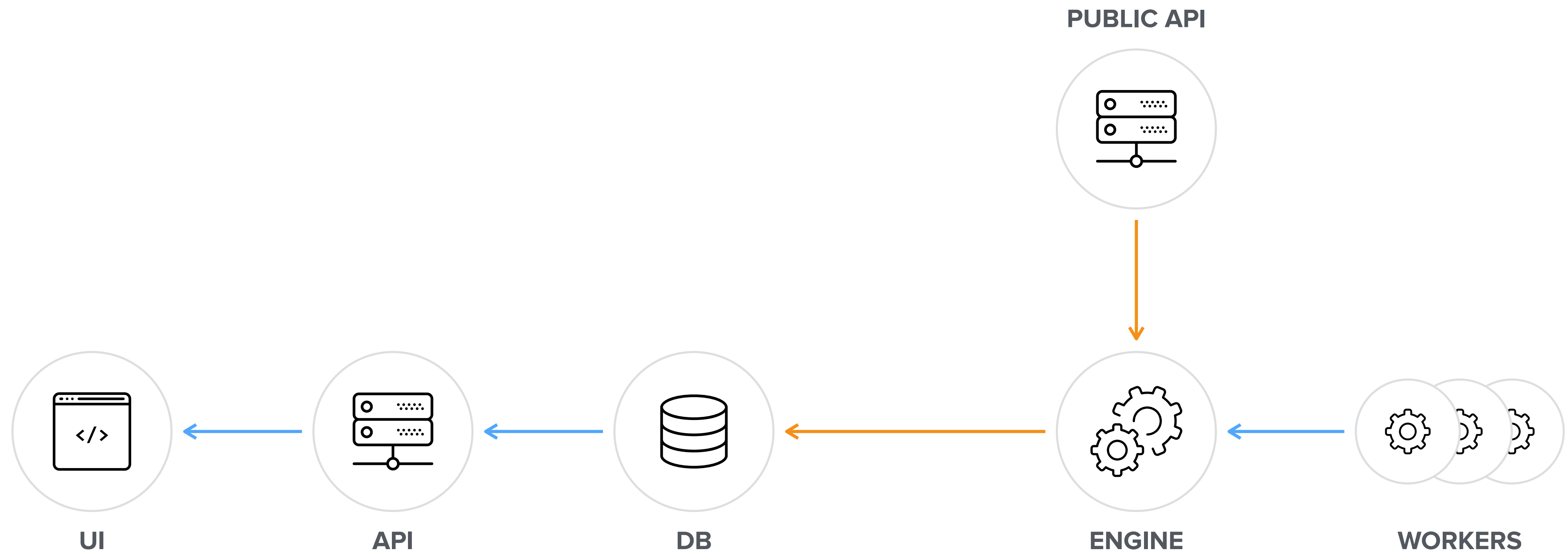


 Google Analytics

 **GitHub**







DEALING WITH COMPLEX USER INTERFACES
... IS COMPLEX

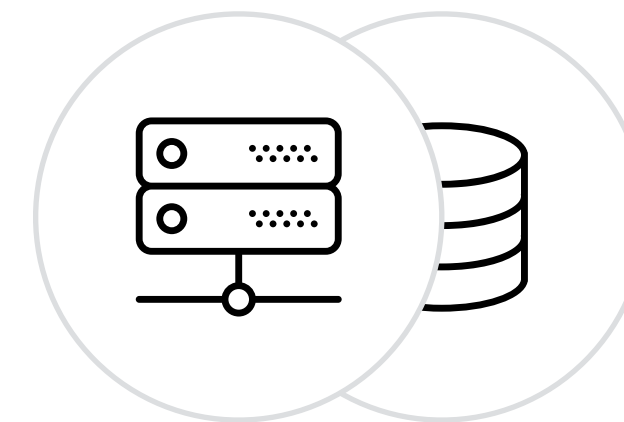


UI API CONNECTION

3

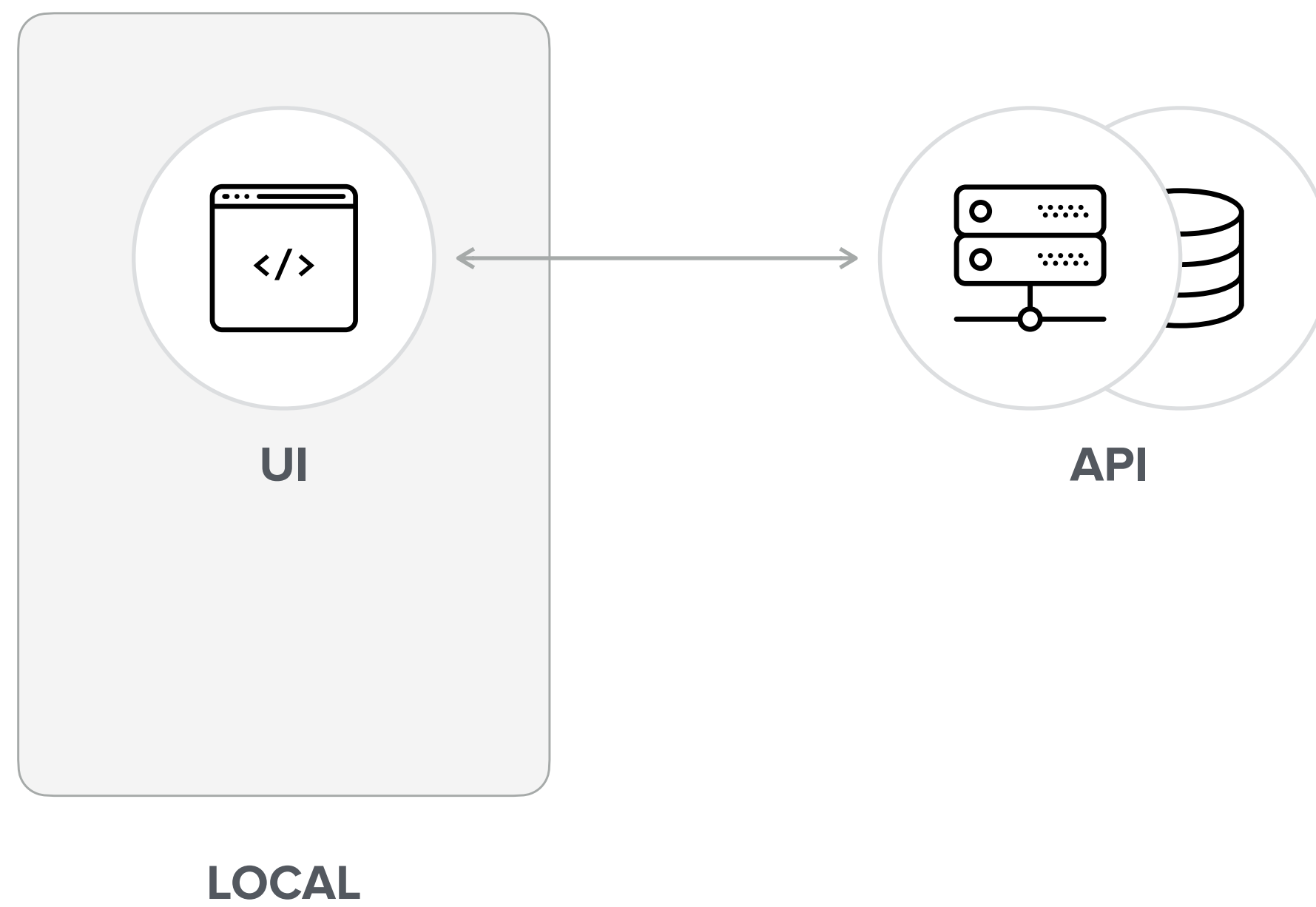


UI



API

1. REMOTE CONNECTION TO DEV API



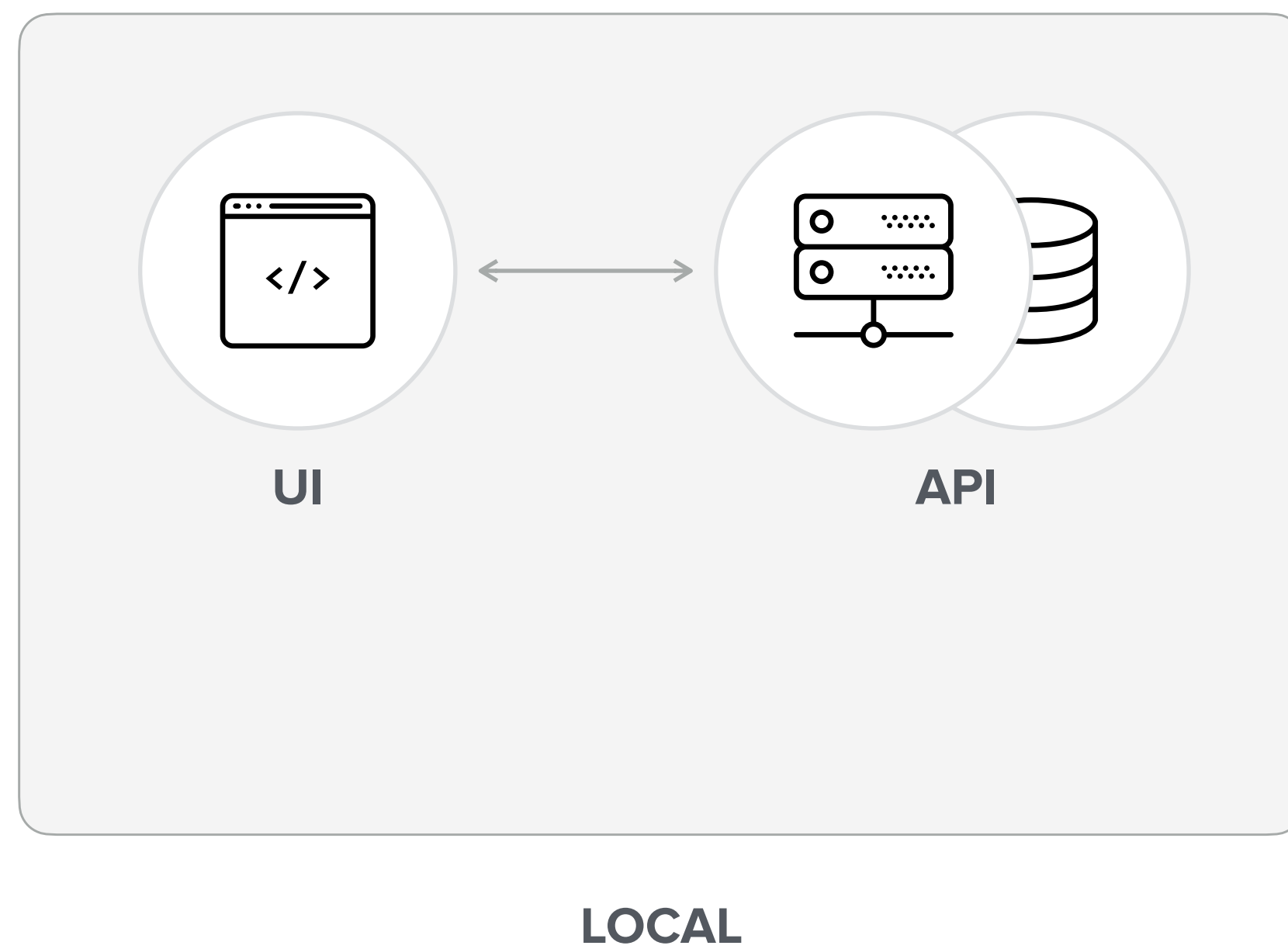
NO LOCAL API SETUP

SHARED DATA

INFRASTRUCTURE DEPENDENCY

ONLINE ONLY

2. LOCAL API SETUP



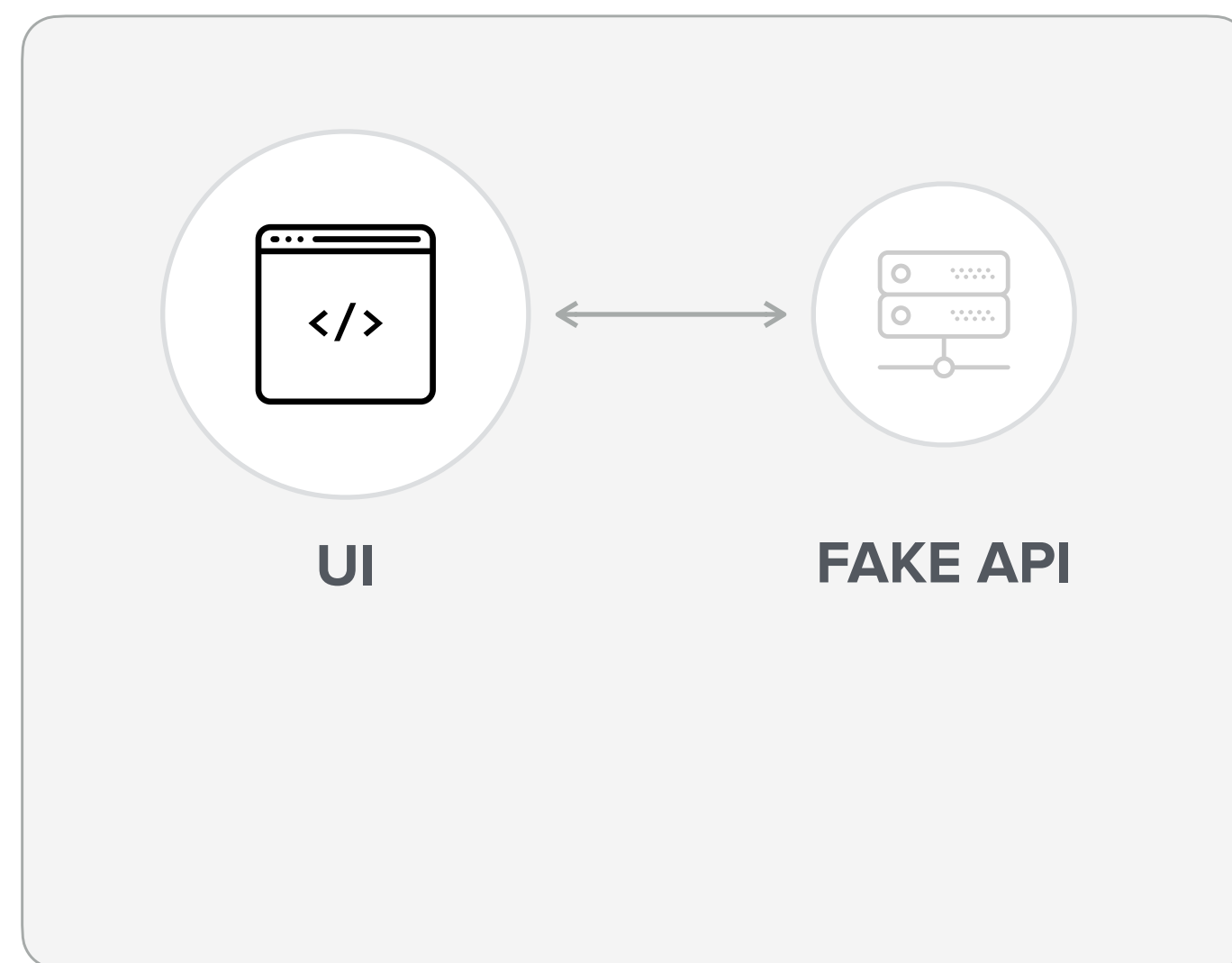
OFFLINE

EASILY SWITCH BRANCHES

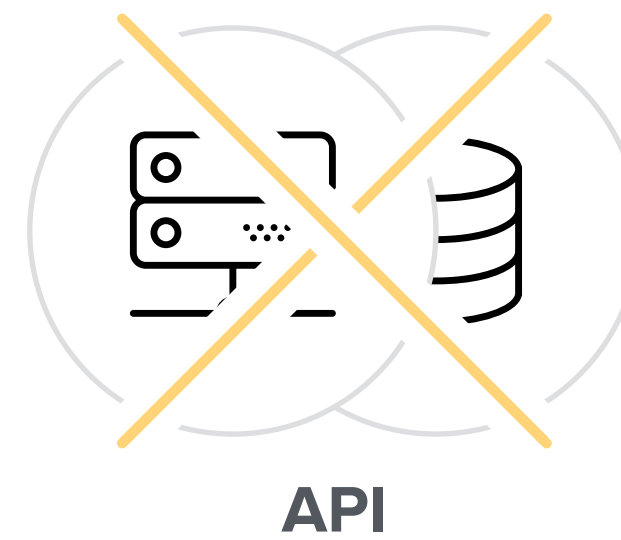
NON-TRIVIAL DATA SYNC

SYSTEM SETUP / MIGRATIONS

3. FAKE API STUBS



LOCAL



OFFLINE

EASY DATA SETUP

NON-TRIVIAL SCHEMA UPDATES

**INTEGRATING WITH YOUR API
... IS NOT TRIVIAL**

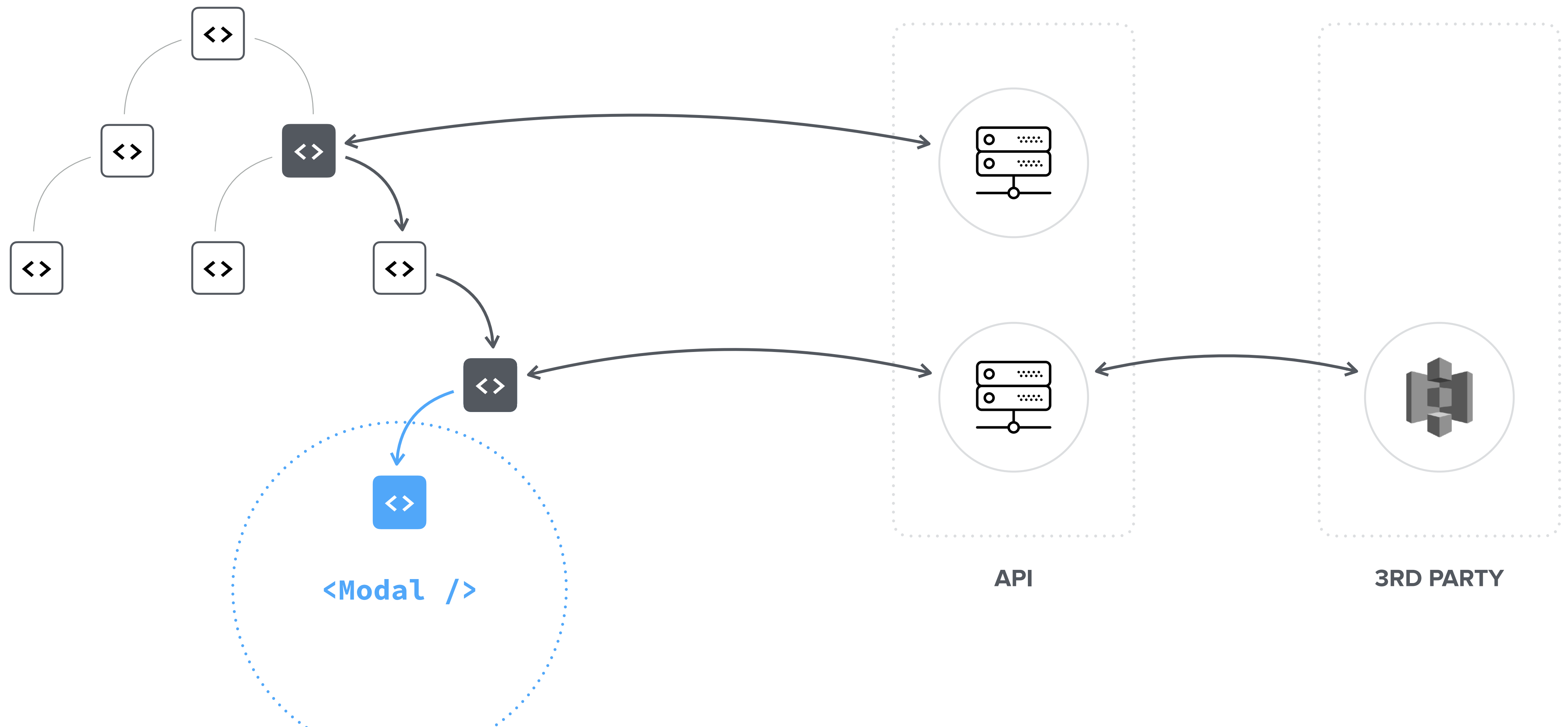


DATA DEPENDENT

COMPONENTS

4

DATA DEPENDENT COMPONENTS



COMPONENT ISOLATION

RENDER THE COMPONENT OUTSIDE THE APPLICATION



```
<Modal src={image} />
```



```
<Modal loading={true} />
```

"...like Unit Testing"



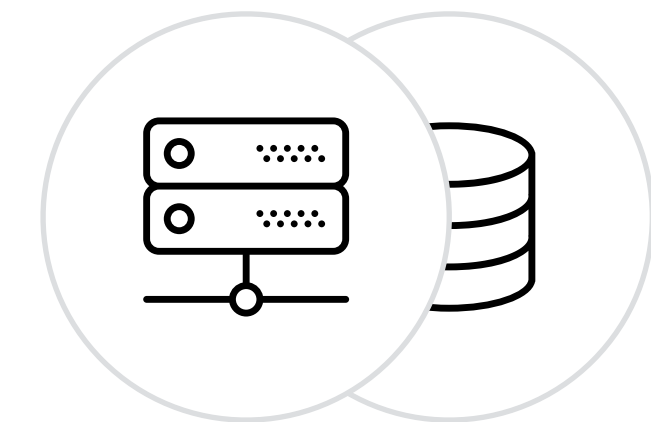
UI ISOLATION



UI ISOLATION



UI

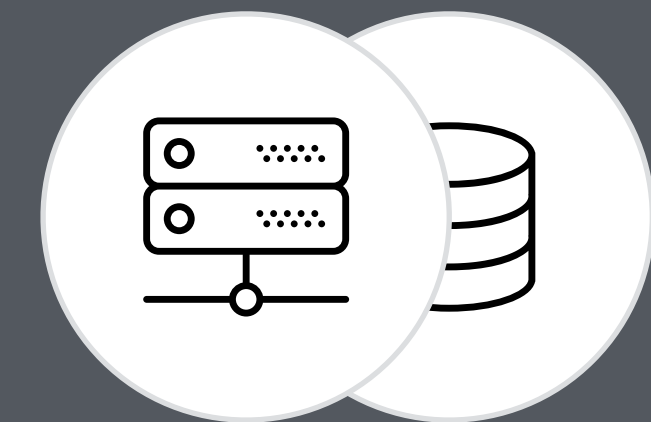


API DB

UI ISOLATION



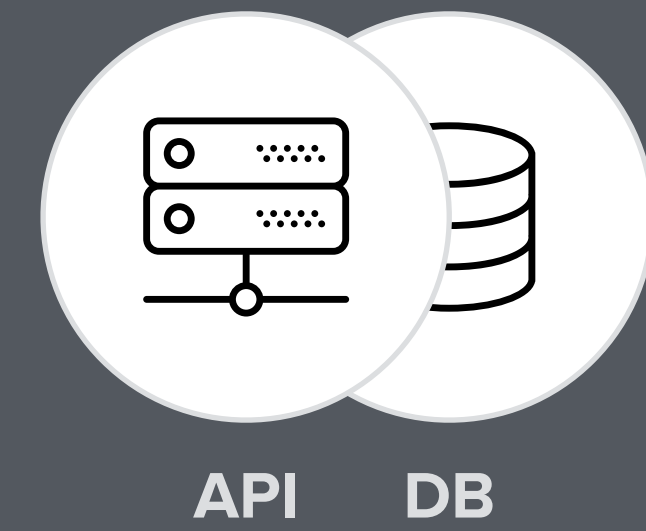
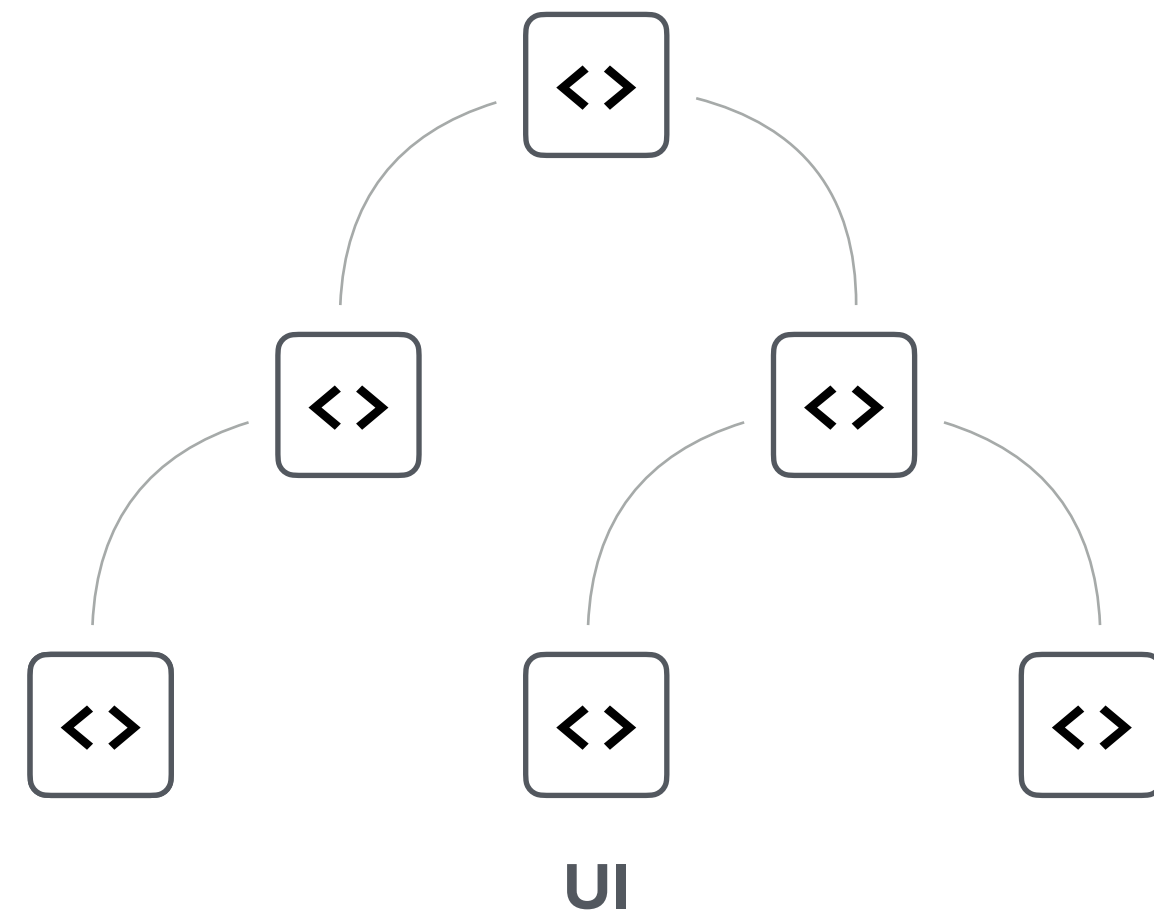
UI



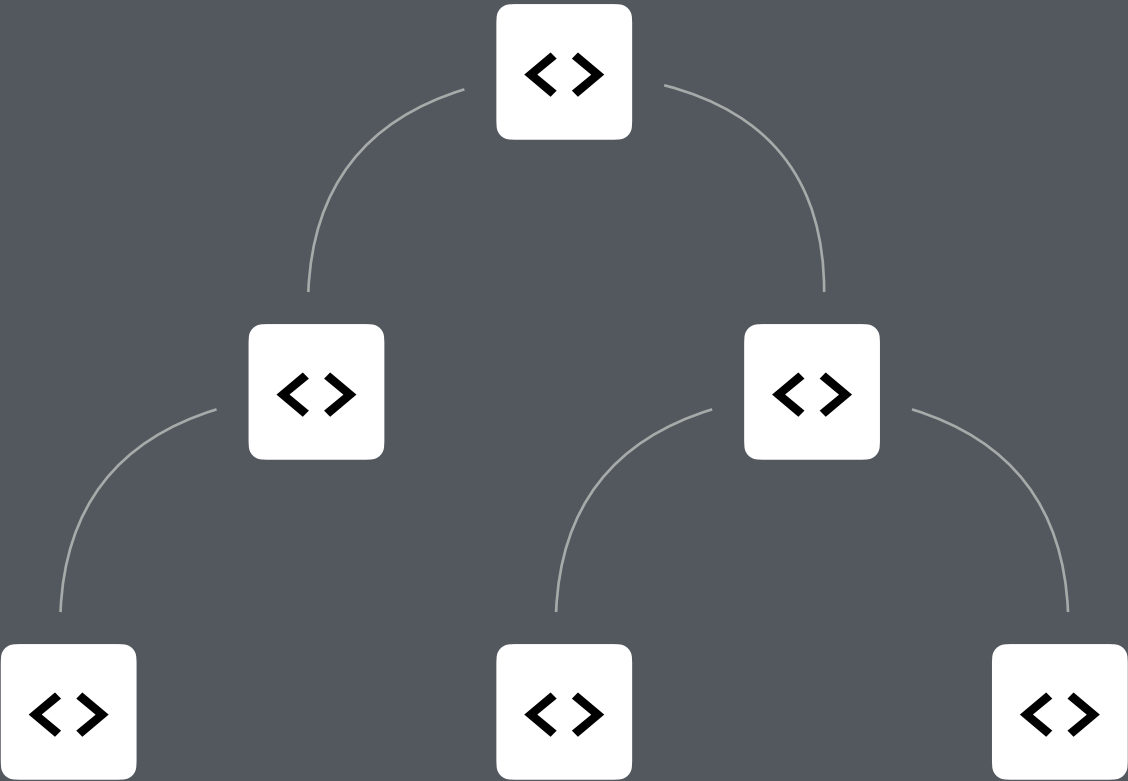
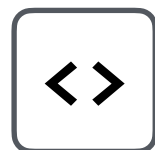
API

DB

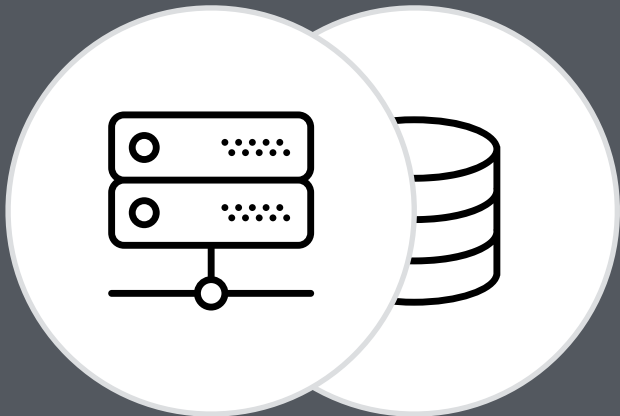
UI ISOLATION



COMPONENT
ISOLATION

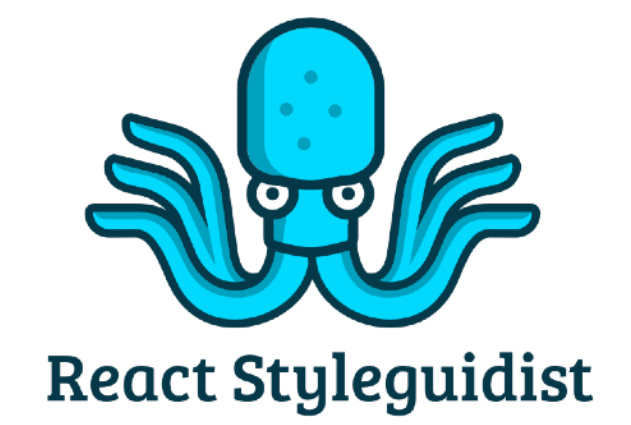
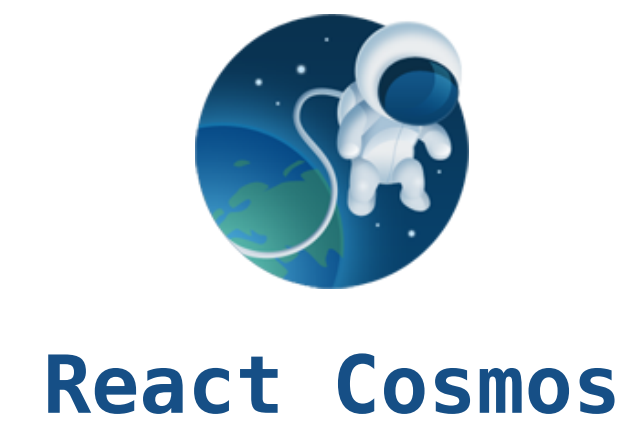


UI



API DB

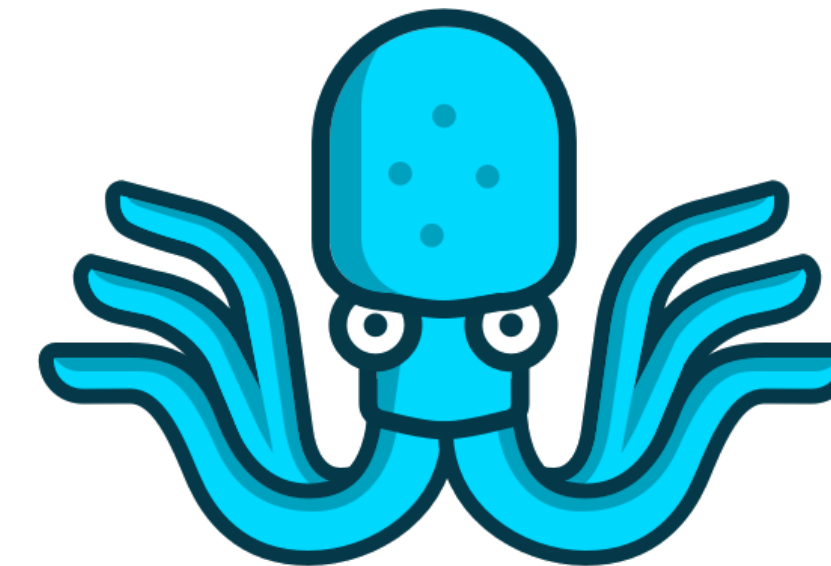
HOW





Storybook

*OPEN SOURCE TOOL
FOR DEVELOPING UI COMPONENTS IN ISOLATION*

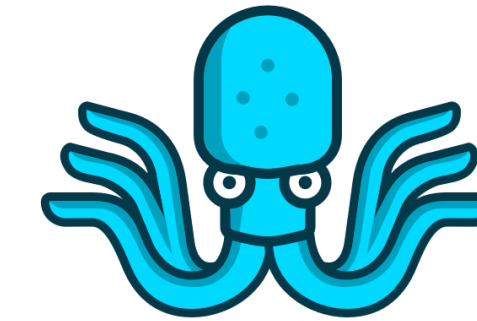


React Styleguidist

*ISOLATED REACT COMPONENT DEVELOPMENT ENVIRONMENT
WITH A LIVING STYLE GUIDE*



Storybook



React Styleguidist

// .storybook/config.js

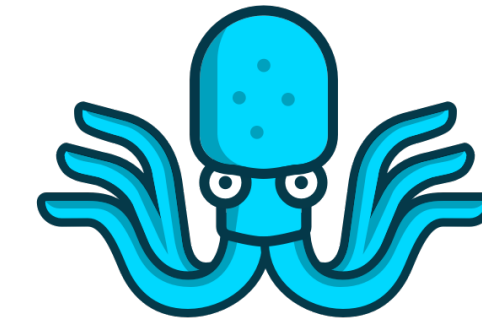
```
import { configure } from "@storybook/react";  
// include any other global styles  
import "bootstrap/bootstrap.min.css";  
  
function loadStories() {  
  // specify stories files  
  require("./stories/index.js");  
}  
  
configure(loadStories);
```

// styleguide.config.js

```
module.exports = {  
  // specify which components to include  
  components: "src/components/**/*.js",  
  // include any other global styles  
  require: ["bootstrap/bootstrap.min.css"],  
};
```



Storybook



React Styleguidist

```
// .storybook/stories/Modal.js
```

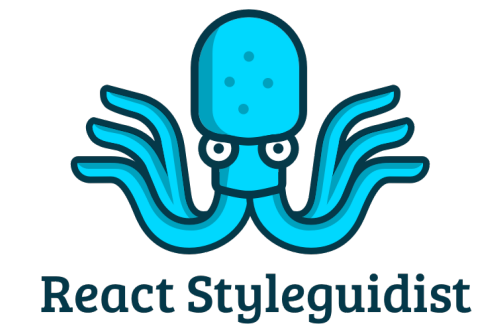
```
import React from "react";
import { storiesOf } from "@storybook/react";

import Modal from "../../src/components/Modal";

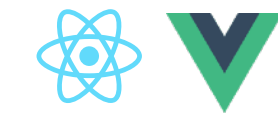
storiesOf("Components", module)
  .add("Modal", () => (
    <>
      <Modal src={/* data */} />
      <Modal loading />
    </>
  ));
```

```
// src/components/Modal.md
```

```
```jsx
<>
 <Modal src={/* data */} />
 <Modal loading />
</>
```
```



INTEGRATIONS



WRITING EXAMPLES

JAVASCRIPT

MARKDOWN

PLUGINS

YES

-

CUSTOM LAYOUT

-

YES

MAIN PURPOSE

DEVELOPMENT

DOCUMENTATION

TYPESCRIPT SUPPORT

FULL

LIMITED





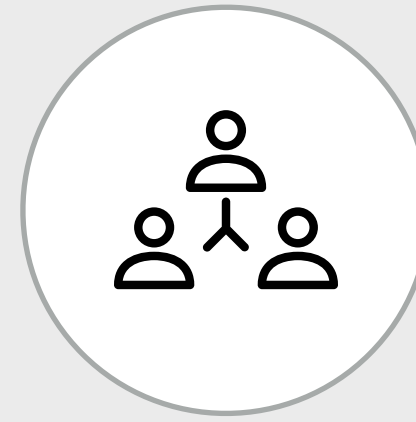
INCREMENTAL

ADOPTION



LOCAL SETUP

USE IT WHEN NEEDED



CHECK IN REPO

SHARED WITH YOUR TEAM



STATIC BUILD

PUBLISHED ONLINE

1

2

3

```
export class Project extends React.Component {
  render() {
    return (
      <Loading isLoading={() => this.props.isFetchingProject}>
        {
          this.state.noProjectFound ? (
            <div>
              No project found for ID <strong>{this.props.match.params.projectId}</strong>
              <br />
              <Link to={` /projects/new`} >Add a new project</Link>
            </div>
          ) : ''
        }
      </Loading>
    )
  }
  {
    this.props.project ? (
      <AppHeader
        items={['my-projects', 'project', 'analysis']}
        criteria={this.props.match.params}
        projectId={this.props.projectId}
        project={this.props.project}
        activeStep='analysis'
      >
        <Badge color="grey" variant="outline" inline>
          Inactive
        </Badge>
        <Menu secondary>
          <Menu.Item fitted position="right">
            Enforced only
            &nbsp;
            <Popup
              trigger={<Icon circular name="question" size="small" />}
              content='Only enforced rules with issues found will fail your build.'
            >
              <Checkbox
                toggle
                checked={this.state.filter.status === 'enforced'}
                onChange={(e, d) => {
                  this.setState({ filter: { ...this.state.filter, status: d.checked ? 'enforced' : 'all' } })
                }}
              >
            </Checkbox>
          </Menu.Item>
          <Menu.Item fitted position="right">
            With issues only
            <Checkbox
              toggle
              checked={this.state.filter.onlyIssues}
              onChange={(e, d) => {
                this.setState({ filter: { ...this.state.filter, onlyIssues: d.checked } })
              }}
            >
          </Menu.Item>
        </Menu>
      </AppHeader>
    ) : ('')
  }
  {
    this.props.project ? (
      <Container>
        <Card.Group itemsPerRow={3} stackable doubling>
          {
            this.renderRules()
          }
        </Card.Group>
      </Container>
    ) : ('')
  }
  </Loading>
)
}
```

```

return (
  <Loading isLoading={() => this.props.isFetchingProject}>
    {
      this.state.noProjectFound ? (
        <div>
          No project found for ID <strong>{this.props.match.params.projectId}</strong>
          <br />
          <Link to={` /projects/new`} >Add a new project</Link>
        </div>
      ) : ''
    }
  {
    this.props.project ? (
      <AppHeader
        items={['my-projects', 'project', 'analysis']}
        criteria={this.props.match.params}
        projectId={this.props.projectId}
        project={this.props.project}
        activeStep='analysis'
      >
        <Badge color="grey" variant="outline" inline>
          Inactive
        </Badge>
        <Menu secondary>
          <Menu.Item fitted position="right">
            Enforced only
            &nbsp;
            <Popup
              trigger={<Icon circular name="question" size="small" />}
              content='Only enforced rules with issues found will fail your build.'
            />
            <Checkbox
              toggle
              checked={this.state.filter.status === 'enforced'}
              onChange={(e, d) => {
                this.setState({ filter: { ...this.state.filter, status: d.checked ? 'enforced' : 'all' } })
              }}
            />
          </Menu.Item>
        </Menu>
      </AppHeader>
    ) : ''
  }
)

```



```

return (
  <Loading isLoading={() => this.props.isFetchingProject}>
    {
      this.state.noProjectFound ? (
        <div>
          No project found for ID <strong>{this.props.match.params.projectId}</strong>
          <br />
          <Link to={` /projects/new`} >Add a new project</Link>
        </div>
      ) : ''
    }
  </Loading>
)

{
  this.props.project ? (
    <AppBar
      items={['my-projects', 'project', 'analysis']}
      criteria={this.props.match.params}
      projectId={this.props.projectId}
      project={this.props.project}
      activeStep='analysis'
    >
      <Badge color="grey" variant="outline" inline>
        Inactive
      </Badge>
      <Menu secondary>
        <Menu.Item fitted position="right">
          Enforced only
          &nbsp;
          <Popup
            trigger={<Icon circular name="question" size="small" />}
            content='Only enforced rules with issues found will fail your build.'
          />
        </Menu.Item>
      </Menu>
      <Checkbox
        toggle
        checked={this.state.filter.status === 'enforced'}
        onChange={(e, d) => {
          this.setState({ filter: { ...this.state.filter, status: d.checked ? 'enforced' : 'all' } })
        }}
      />
    </AppBar>
  ) : (
    <AppBar
      items={['my-projects', 'project', 'analysis']}
      criteria={this.props.match.params}
      projectId={this.props.projectId}
      project={this.props.project}
      activeStep='analysis'
    >
      <Badge color="grey" variant="outline" inline>
        Inactive
      </Badge>
      <Menu secondary>
        <Menu.Item fitted position="right">
          Enforced only
          &nbsp;
          <Popup
            trigger={<Icon circular name="question" size="small" />}
            content='Only enforced rules with issues found will fail your build.'
          />
        </Menu.Item>
      </Menu>
      <Checkbox
        toggle
        checked={this.state.filter.status === 'enforced'}
        onChange={(e, d) => {
          this.setState({ filter: { ...this.state.filter, status: d.checked ? 'enforced' : 'all' } })
        }}
      />
    </AppBar>
  )
)

```






FOCUS

BETTER COMPONENT API



COMPONENTS LIBRARY

STYLE GUIDE / DESIGN SYSTEM

CREDITS

Icons from **flaticon.com**

by Good Ware, itim2101, Freepik, Smashicons

Images from **Pixabay**

by Free-Photos, Ilona Ilyés

THANK YOU



andreipfeiffer.dev