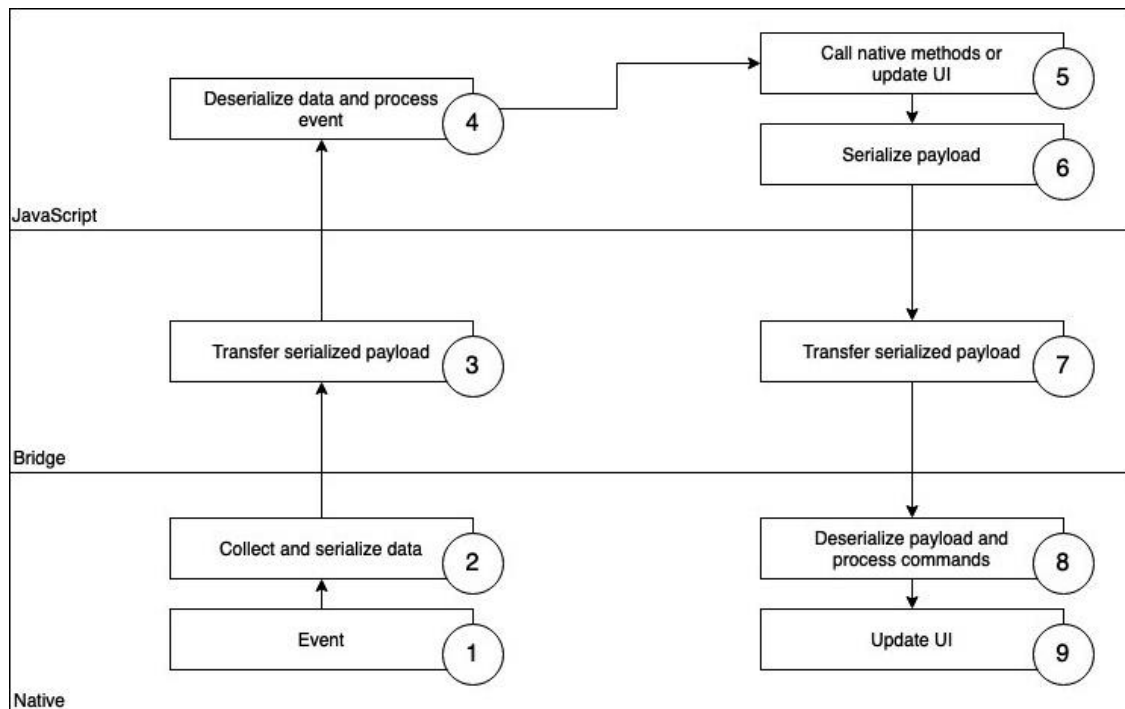
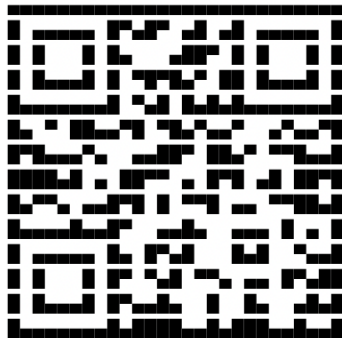


# Chapter 01: What Is React Native?



```
my-app — node < node ~/.nvm/versions/node/v14.18.2/bin/yarn start — 103x31
```

Starting project at /Users/alexanderkuttig/Documents/professional-rn-code/my-app  
Starting Metro Bundler



> Metro waiting on [exp://192.168.2.182:19000](http://exp://192.168.2.182:19000)  
> Scan the QR code above with Expo Go (Android) or the Camera app (iOS)

> Press **a** | open Android  
> Press **i** | open iOS simulator  
> Press **w** | open web

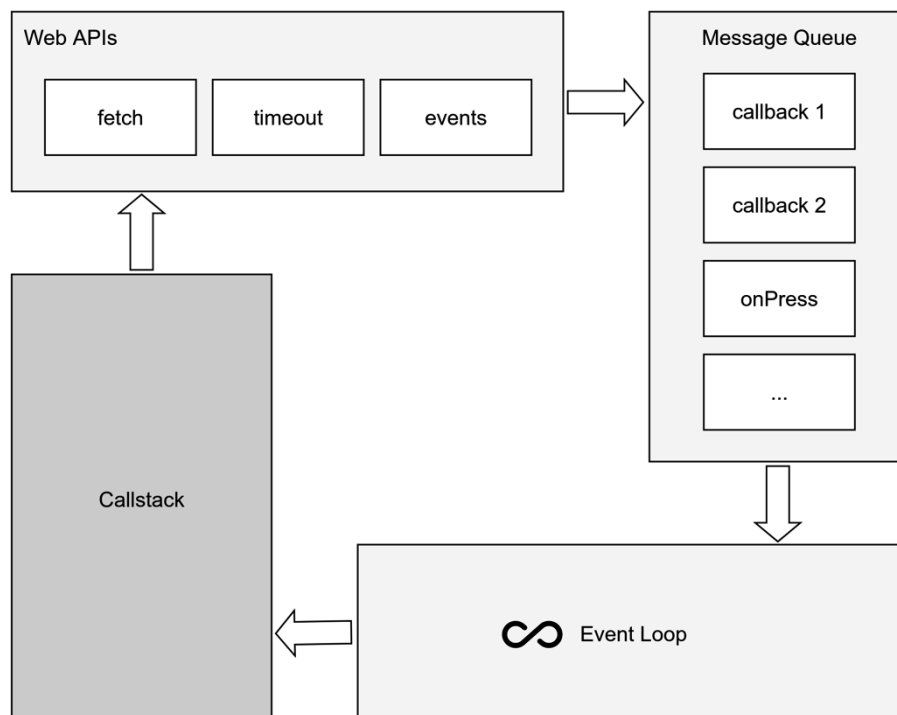
> Press **r** | reload app  
> Press **m** | toggle menu

> Press **?** | show all commands

Logs for your project will appear below. Press Ctrl+C to exit.

## Chapter 02: Understanding the Essentials of JavaScript and TypeScript

	Spread Operator / Object.assign	JSON.parse JSON.stringify	Real Deepclone (Lodash cloneDeep)
Clone first-level primitives	Yes	Yes	Yes
Clone second–nth level primitives	No	Yes	Yes
Clone date properties	Only reference	Only string value	Yes
Clone function properties	Only reference	No	Yes
Performance	Fast	Slow	Medium



## Chapter 03: Hello React Native



### Step One

Edit **App.tsx** to change this screen and then come back to see your edits.

### See Your Changes

Press **Cmd + R** in the simulator to reload your app's code.

### Debug

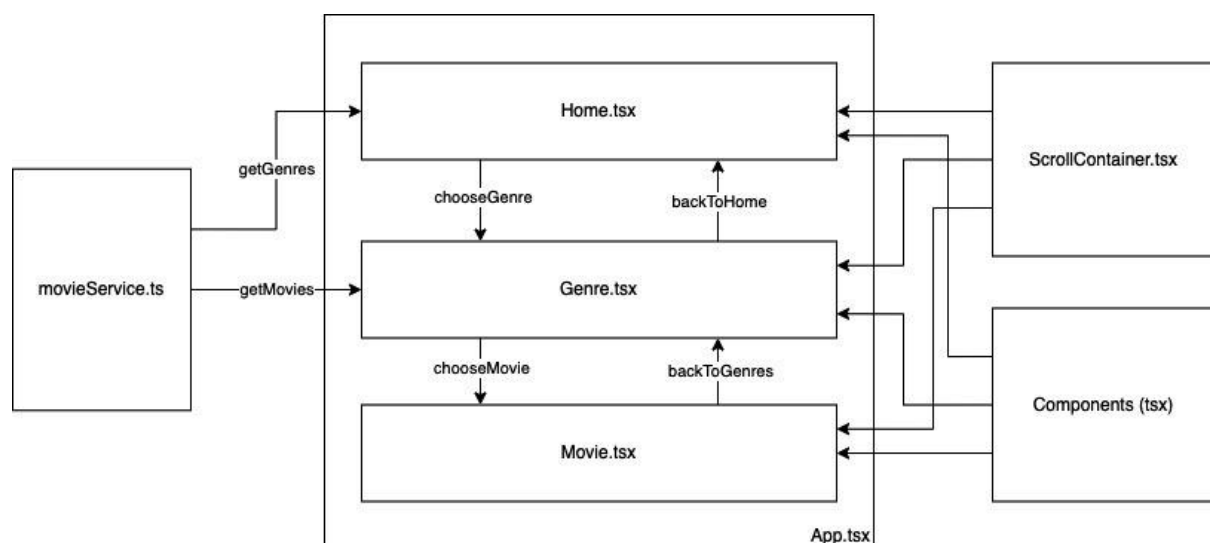
Press **Cmd + D** in the simulator or **Shake** your device to open the React Native debug menu.

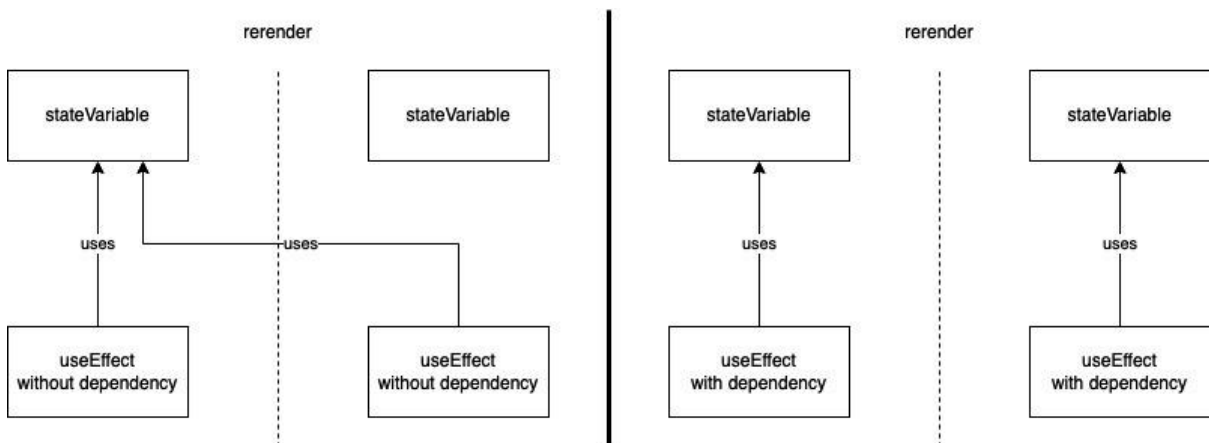
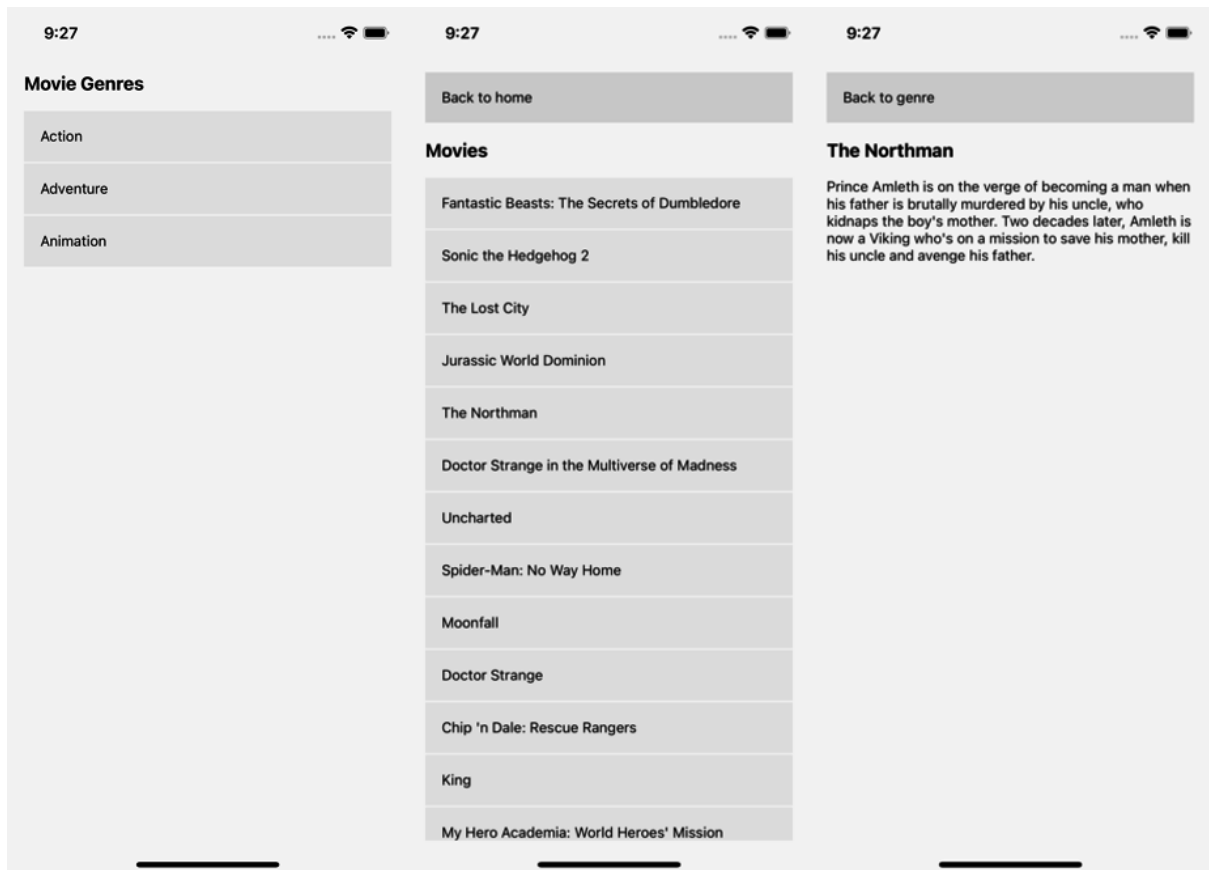
### Learn More

Read the docs to discover what to do next:

[The Basics](#)

Explains a Hello World for





JavaScript

JSI

Fabric

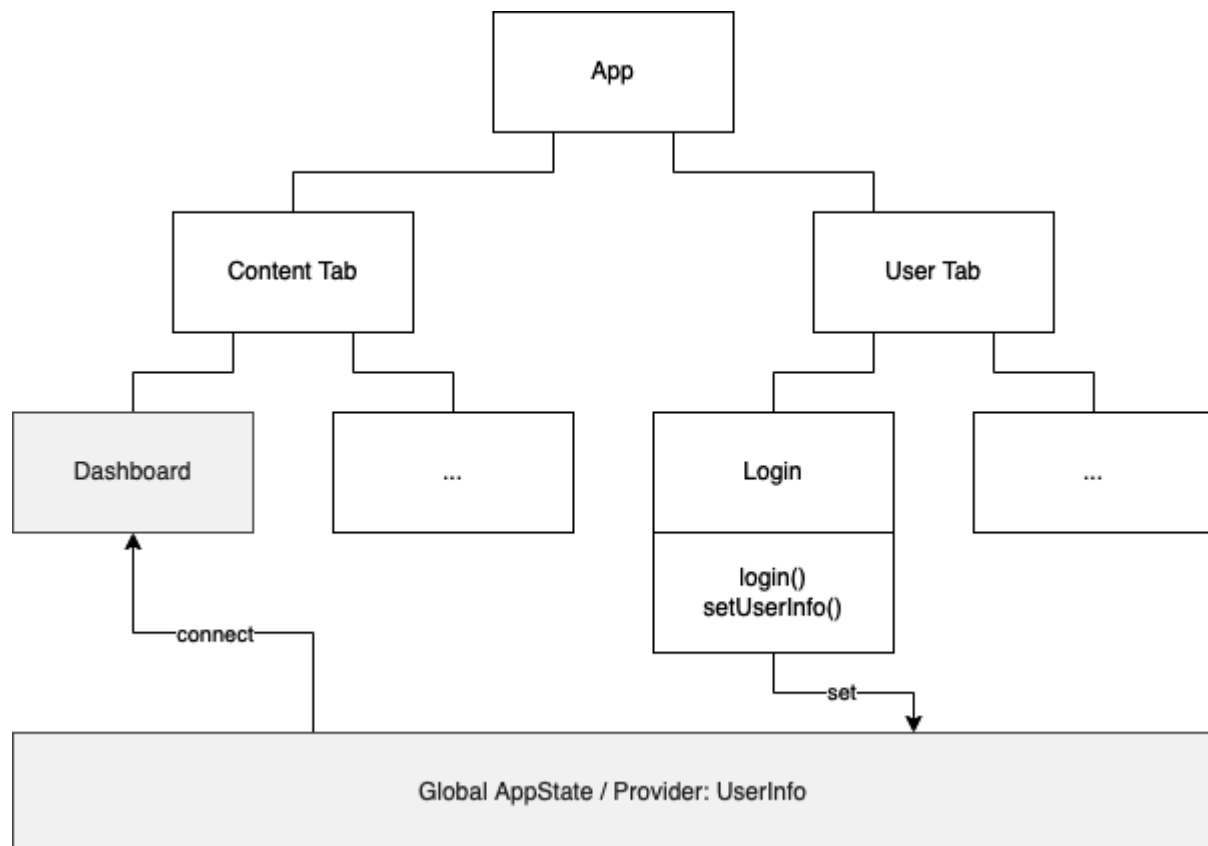
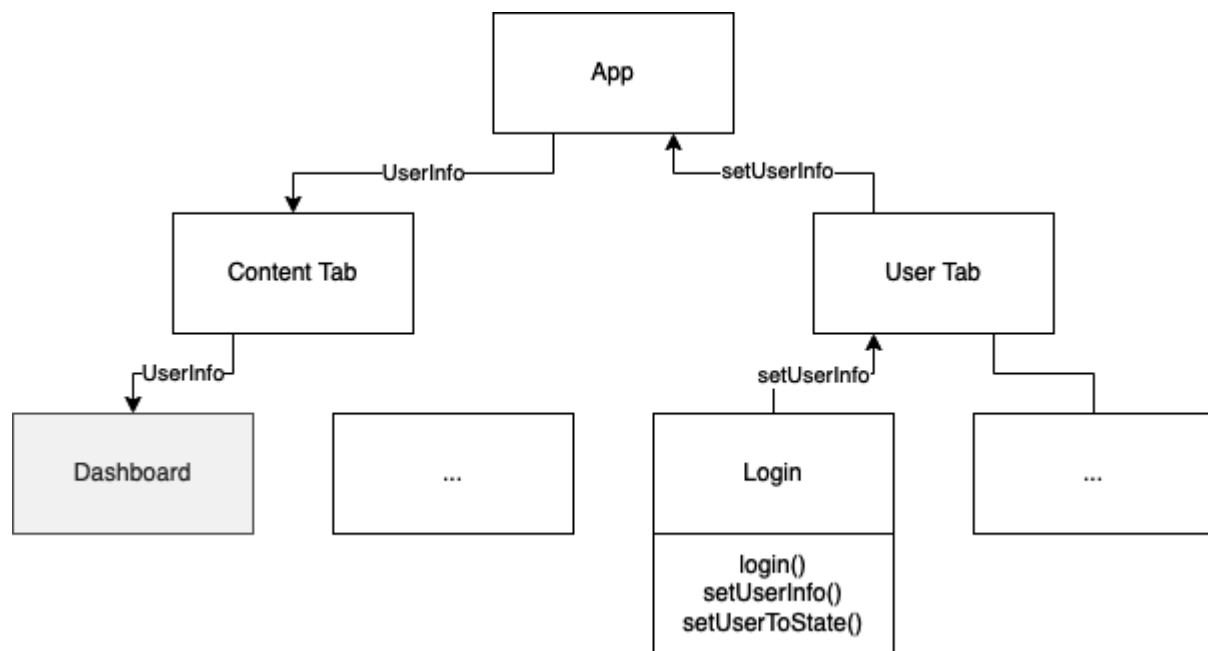
Turbo Modules

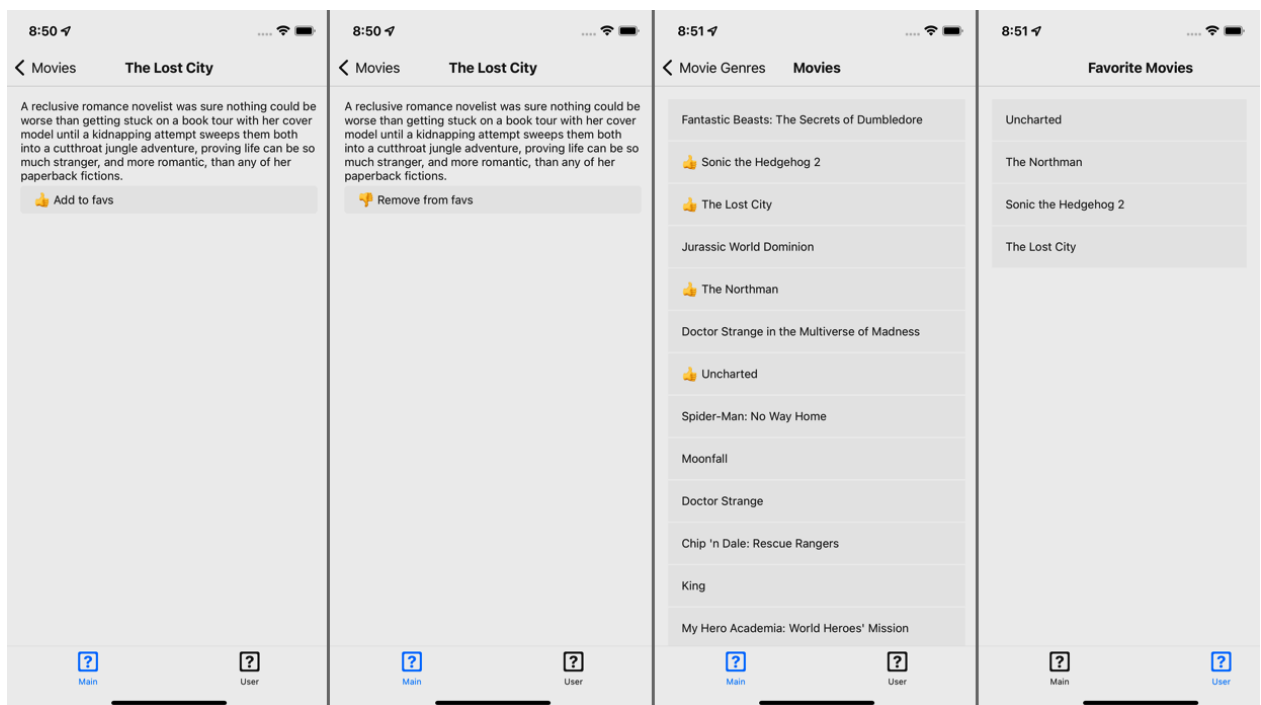
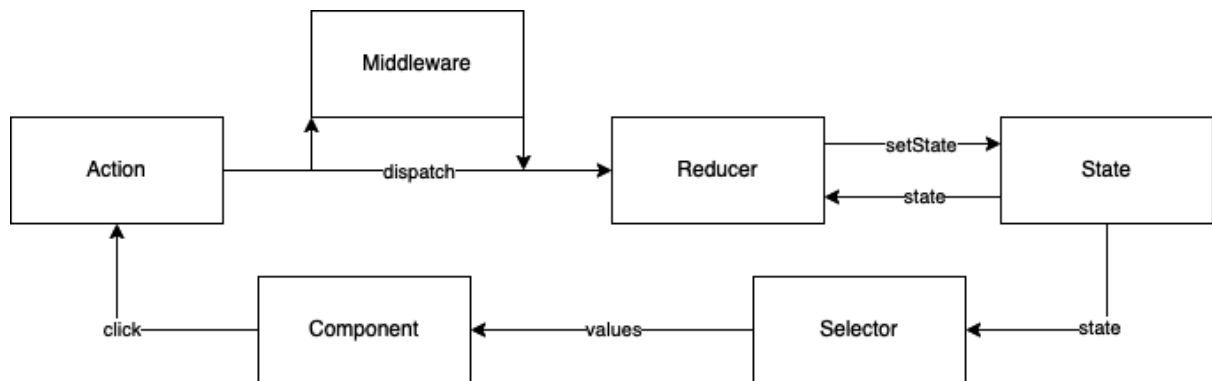
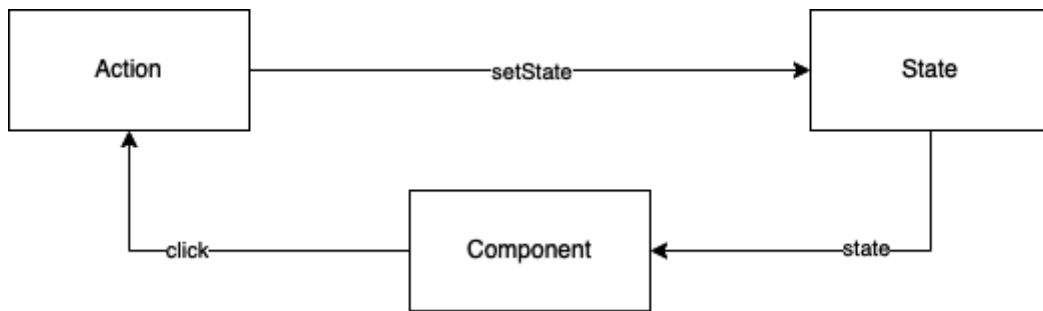
Native

## Chapter 04: Styling, Storage, and Navigation in React Native

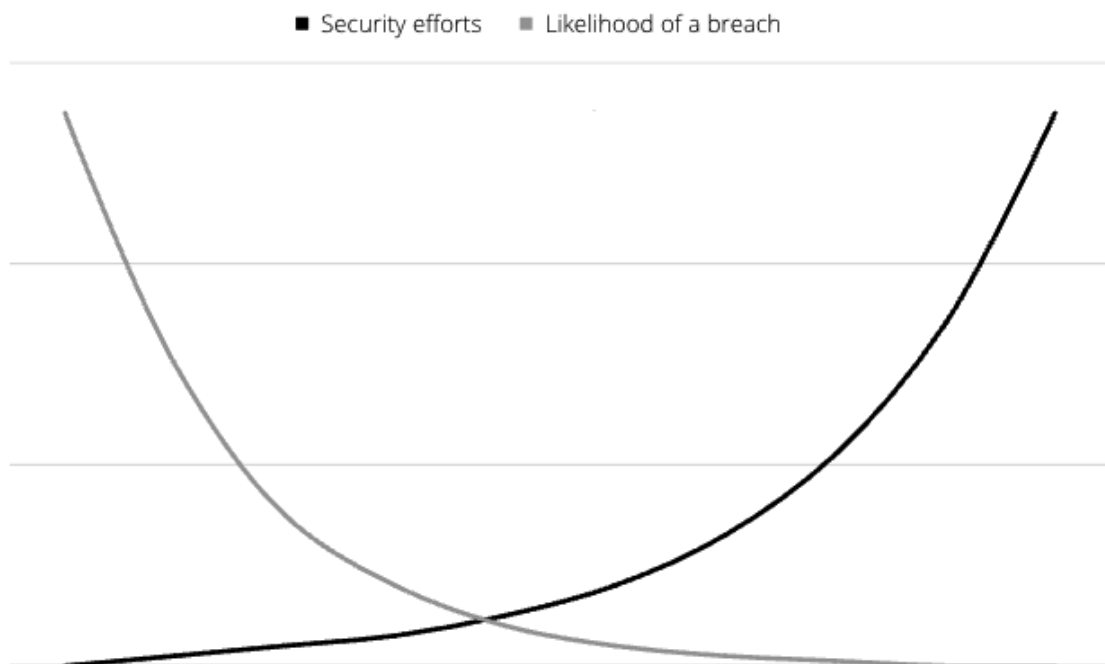
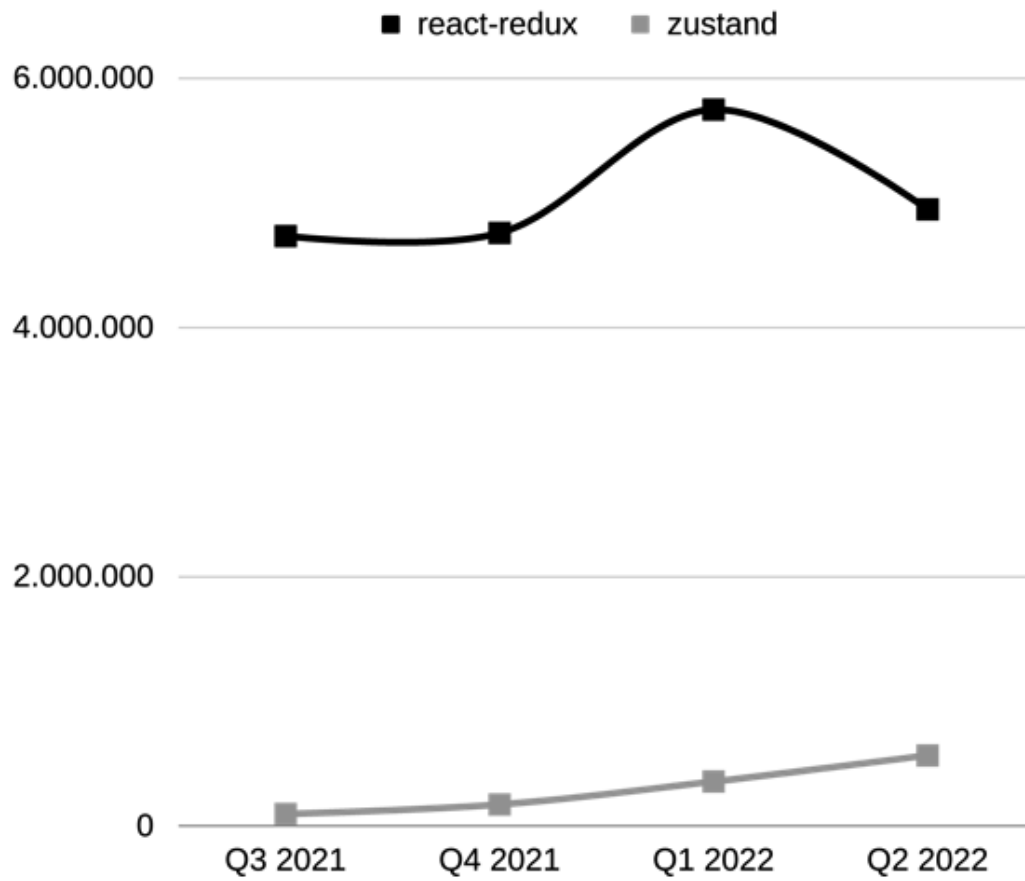
*No-images...*

## Chapter 05: Managing States and Connecting Backends

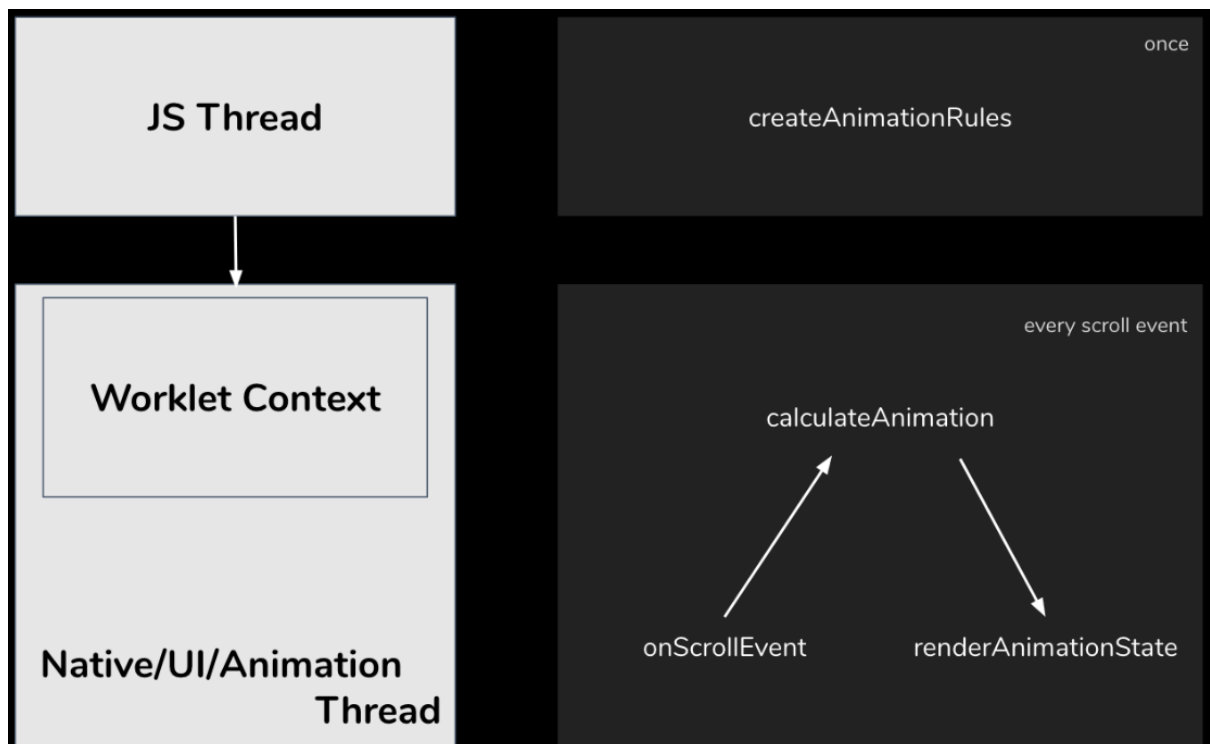
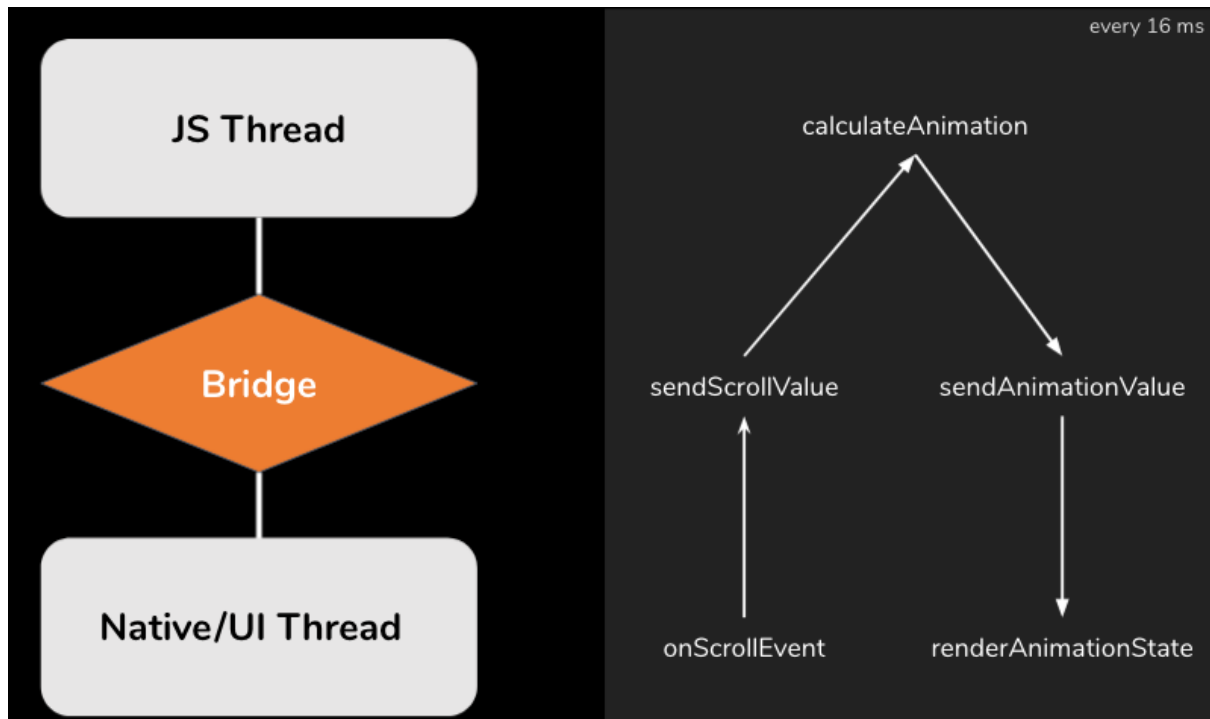


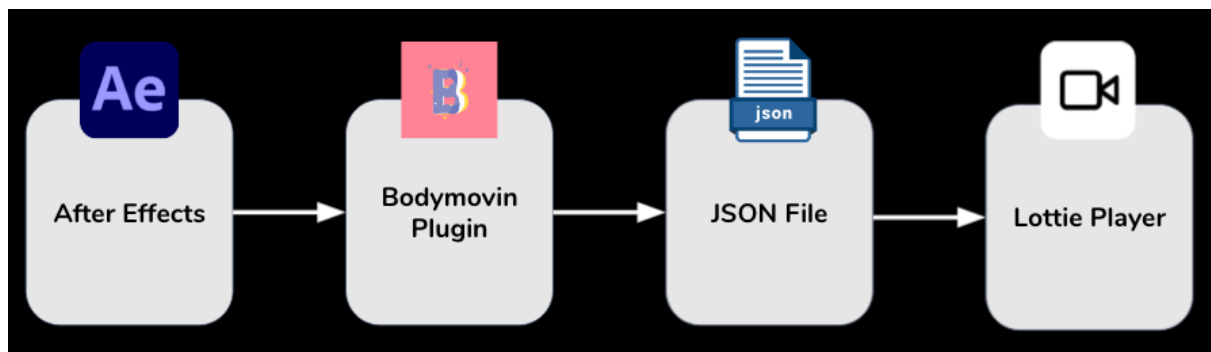




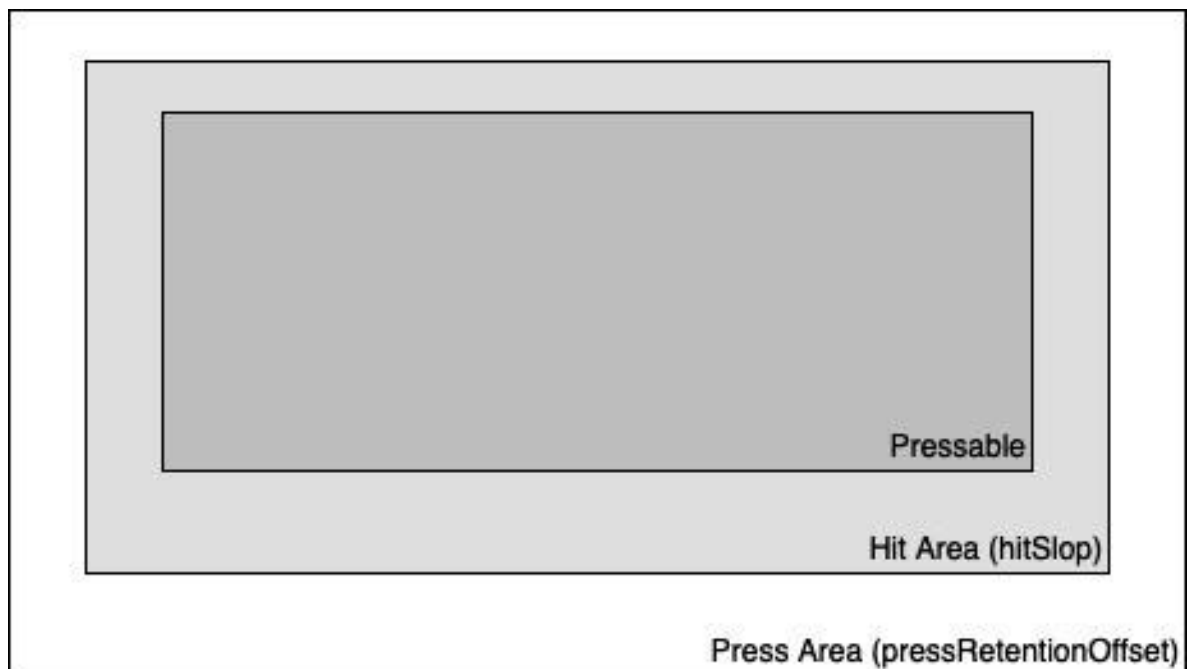
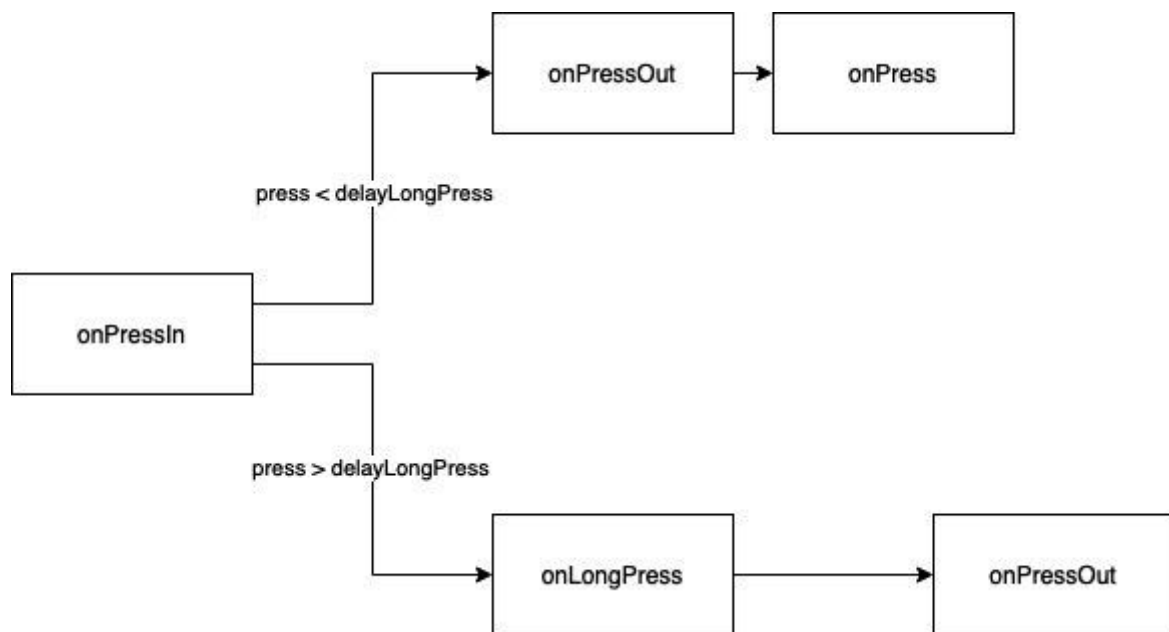


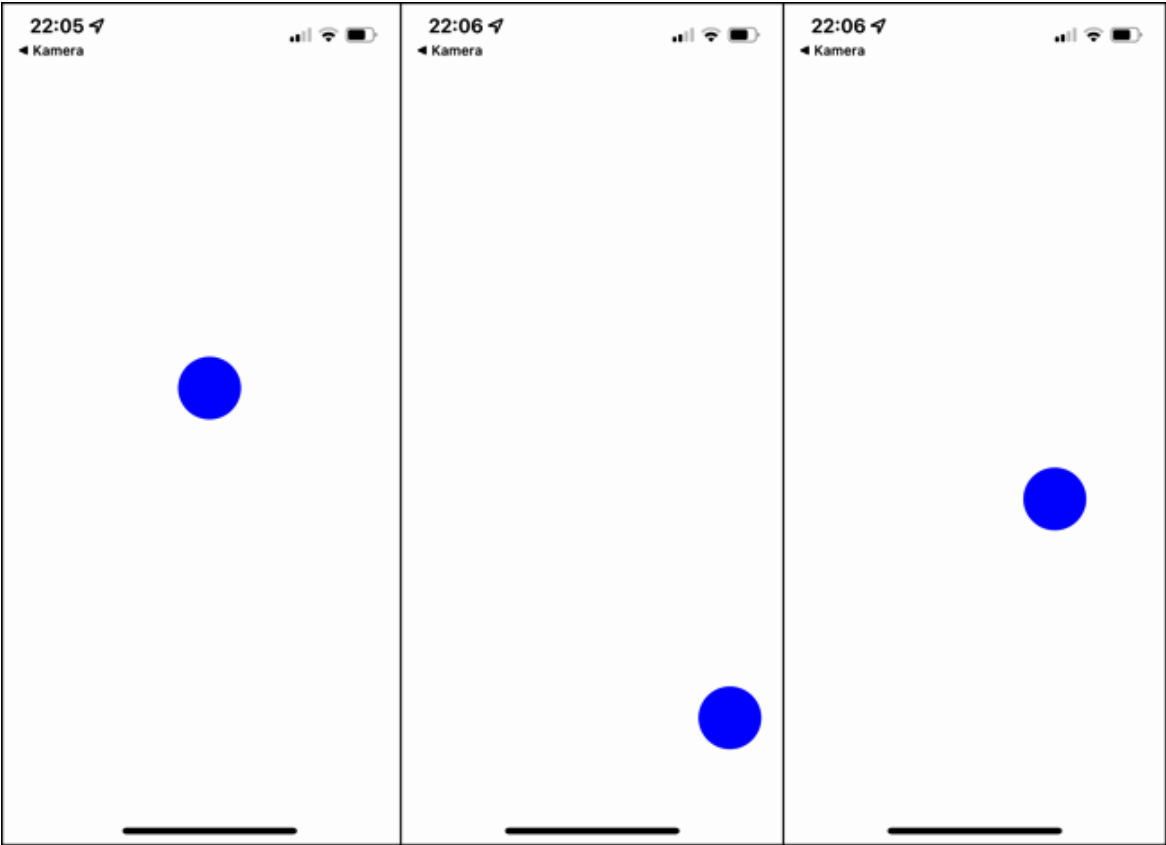
## Chapter 06: Working with Animations



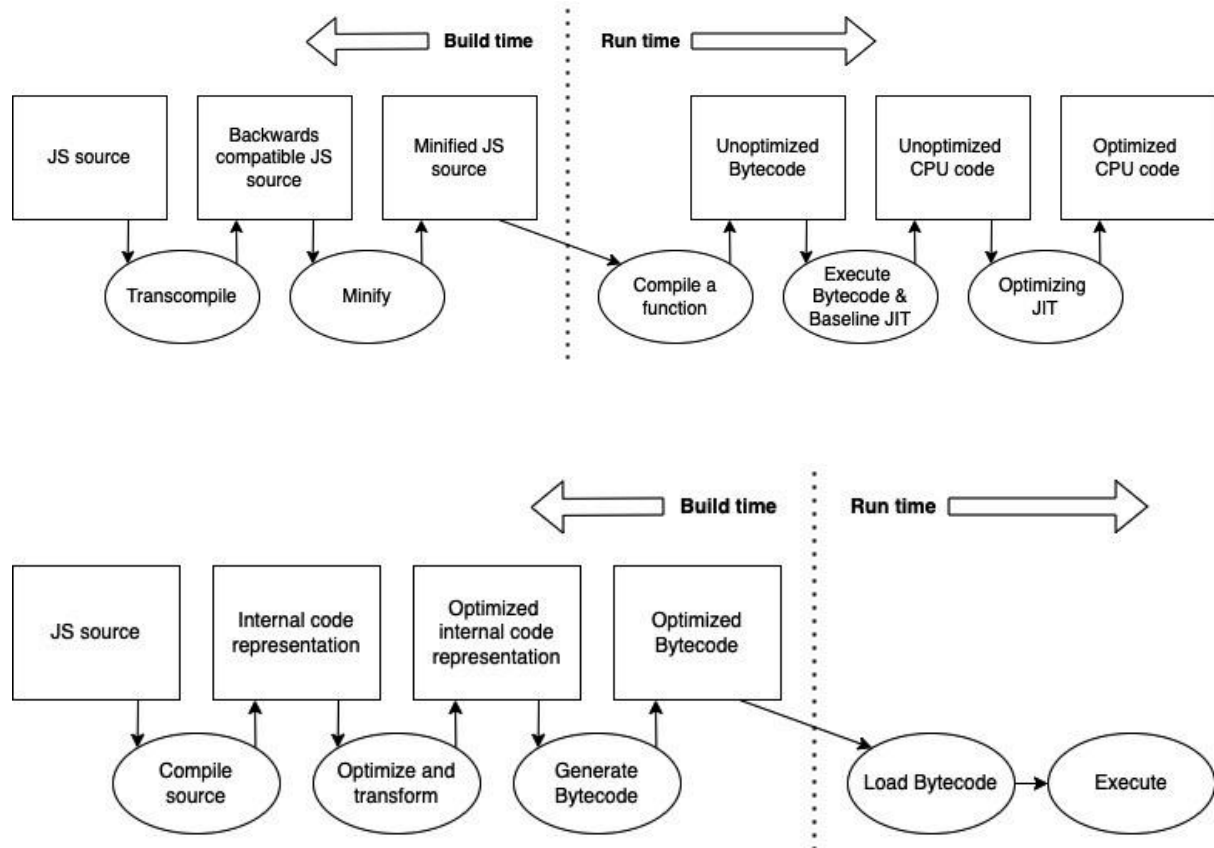


## Chapter 07: Handling Gestures in React Native





## Chapter 08: JavaScript Engines and Hermes

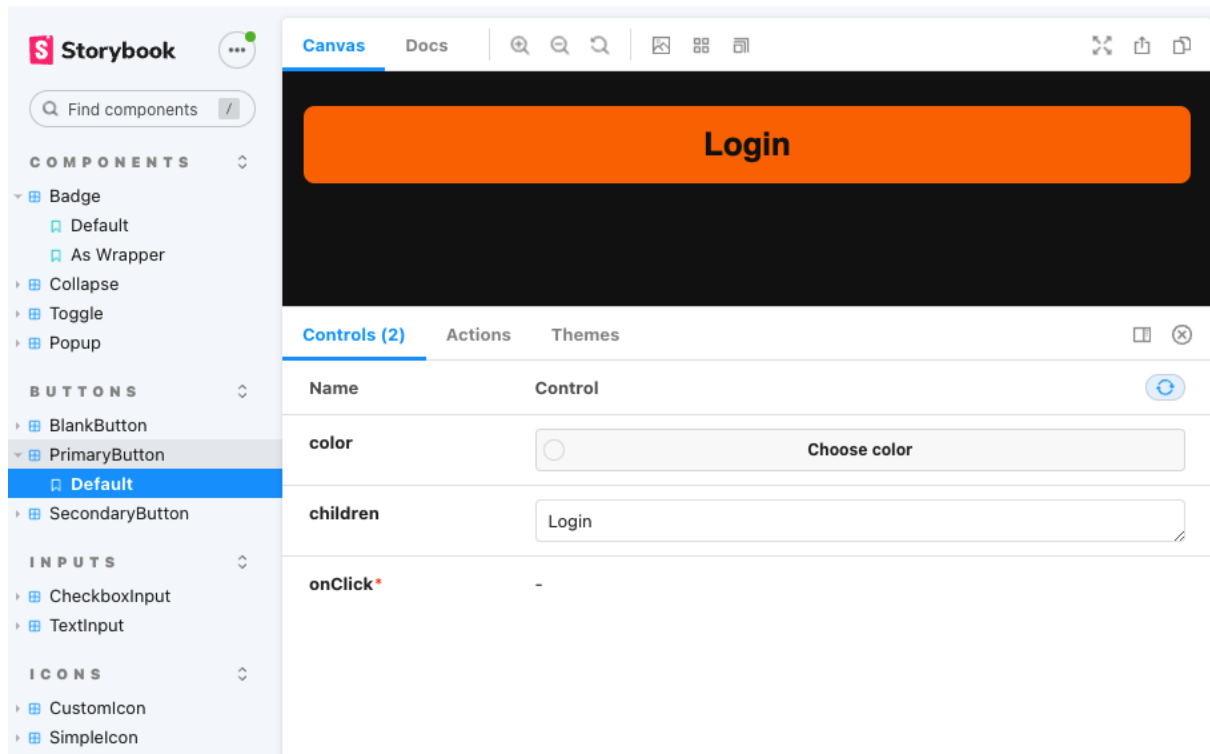


	JSC	Hermes		
Time to interaction	4.30s	2.01s	-2.29s	-53%
Application size	41MB	22MB	-19MB	-46%
Memory utilization	185MB	136MB	-49MB	-26%

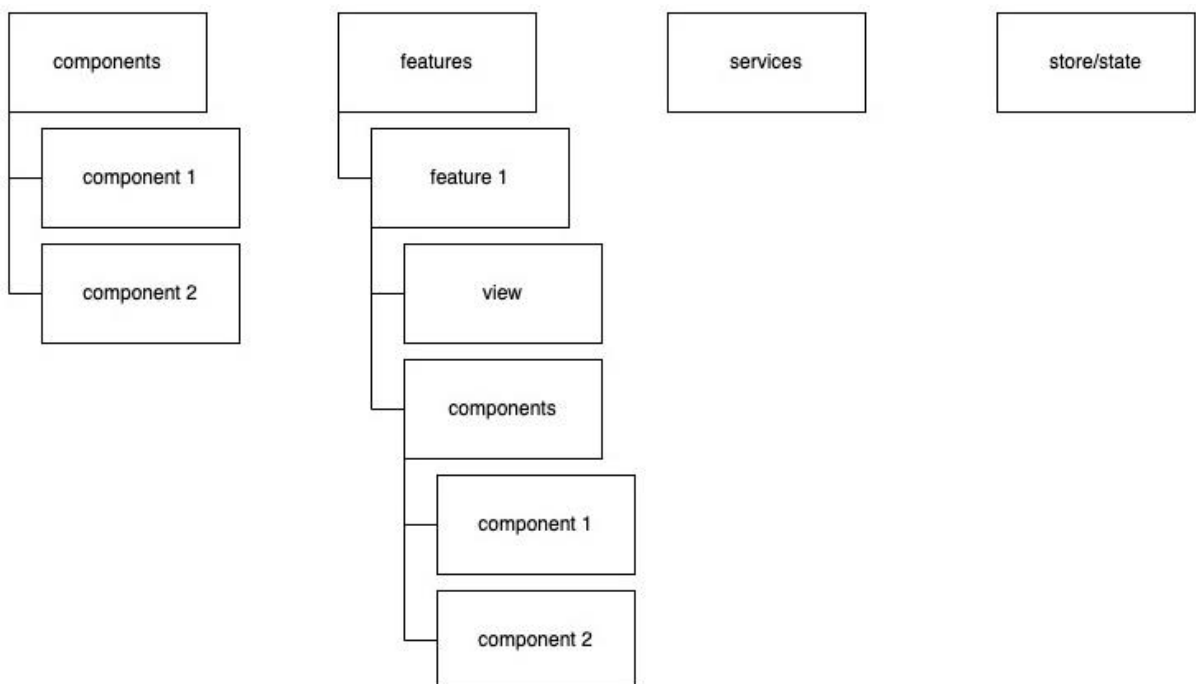
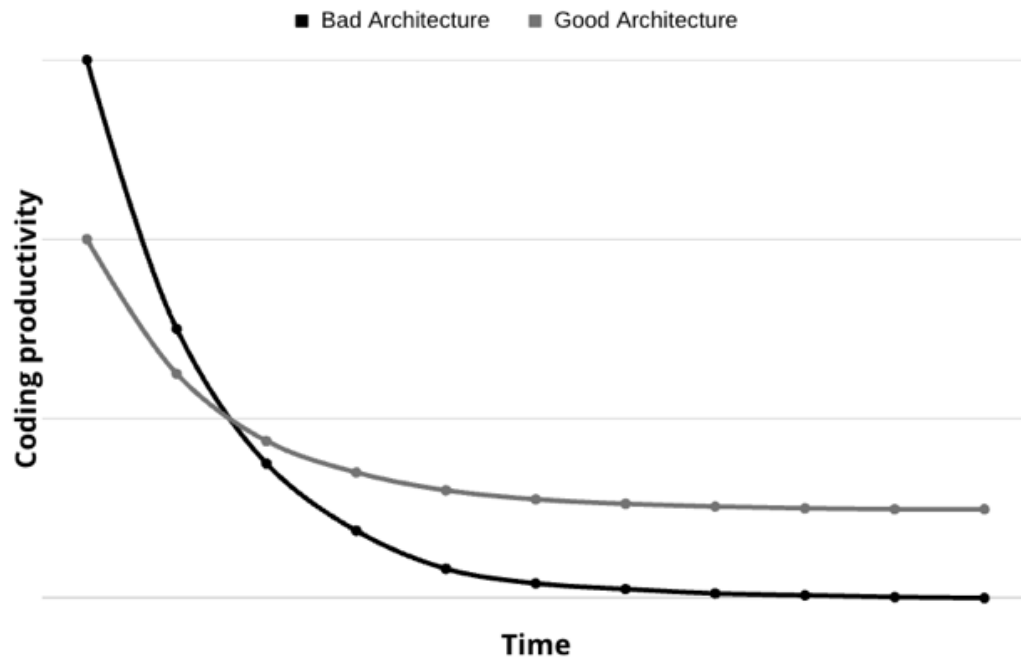
	JSC	Hermes	*in ms	
TTI 3MB bundle	400	240	160	-40%
TTI 10MB bundle	584	305	279	-48%
TTI 15MB bundle	694	342	352	-51%

	JSC	Hermes	*in ms	
Time to interaction	920ms	570ms	-350ms	-38%
Application size	10.6MB	13MB	2,4MB	18%
Memory utilization	216MB	178MB	-38MB	-18%

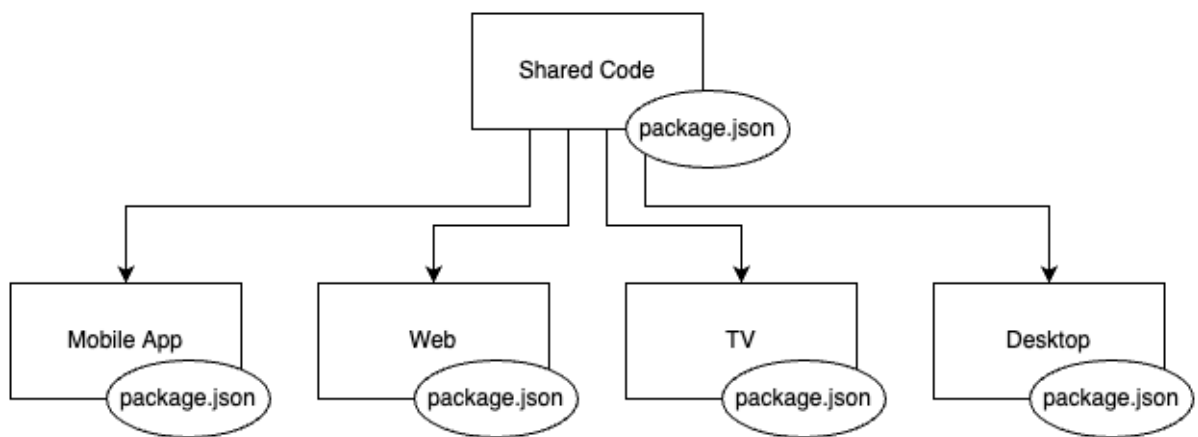
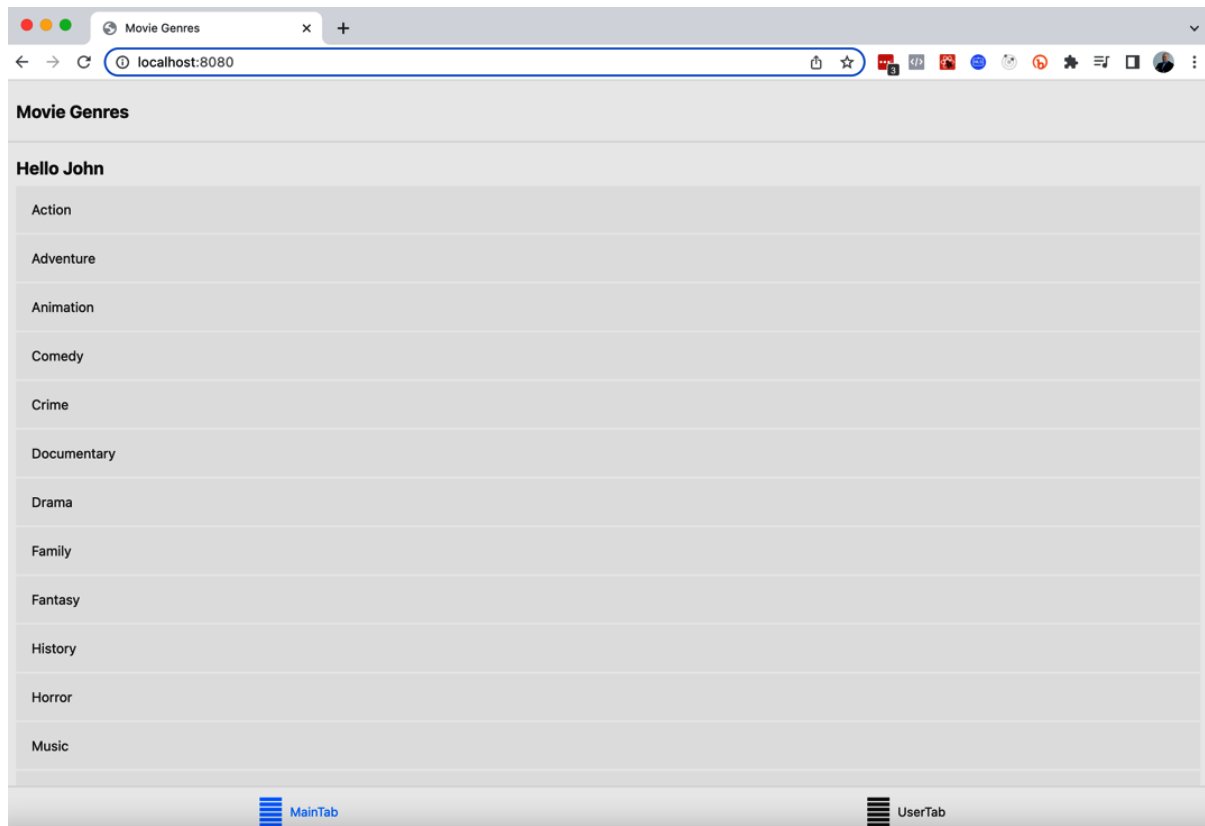
## Chapter 09: Essential Tools for Improving React Native Development



## Chapter 10: Structuring Large-Scale, Multi-Platform Projects







```

professional-rn-code — node ◀ npm exec create-react-native-library test-library __CFBundleId...
alexanderkuttig@MacBook-Pro professional-rn-code % npx create-react-native-library test-library
Need to install the following packages:
  create-react-native-library@0.23.3
Ok to proceed? (y) y
✓ What is the name of the npm package? ... react-native-test-library
✓ What is the description for the package? ... Test
✓ What is the name of package author? ... Alexander Kuttig
✓ What is the email address for the package author? ... alexander.kuttig@horizon-alpha.com
✓ What is the URL for the package author? ... https://www.horizon-alpha.com
✓ What is the URL for the repository? ... https://www.github.com/alexkuttig/react-native-test-library
? What type of library do you want to develop? > - Use arrow-keys. Return to submit.
  Turbo module with backward compat (experimental)
  Turbo module (experimental)
  Native module
  Native view
> JavaScript library

```

```

2 import {
3   ColorConstants,
4   FontConstants,
5   SizeConstants,
6- } from '../constants/StyleConstants';

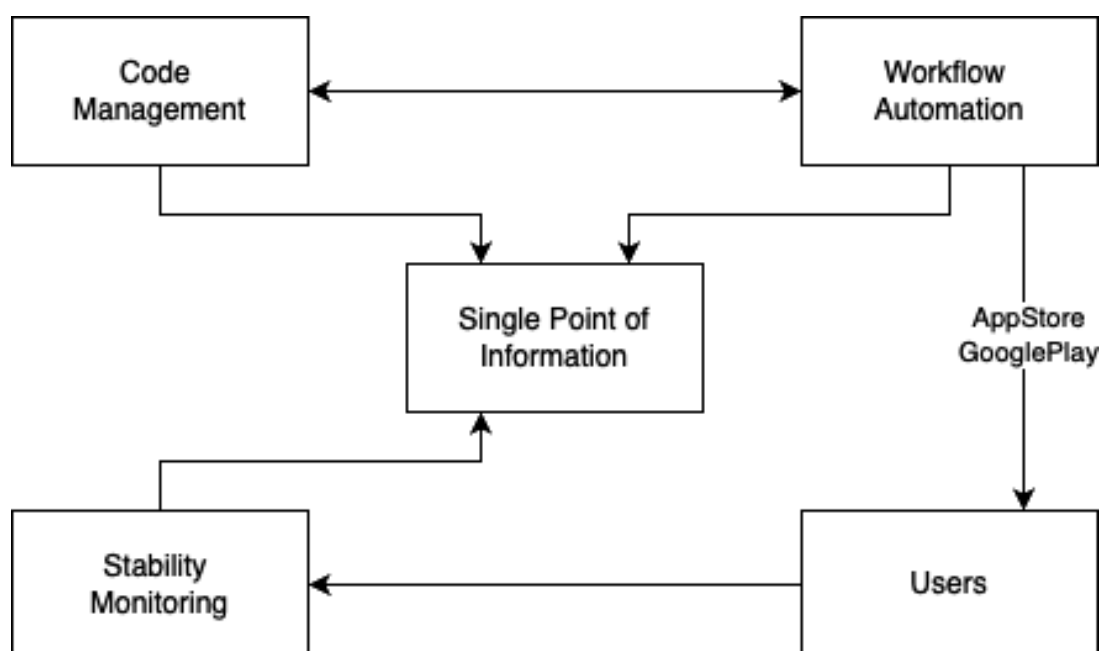
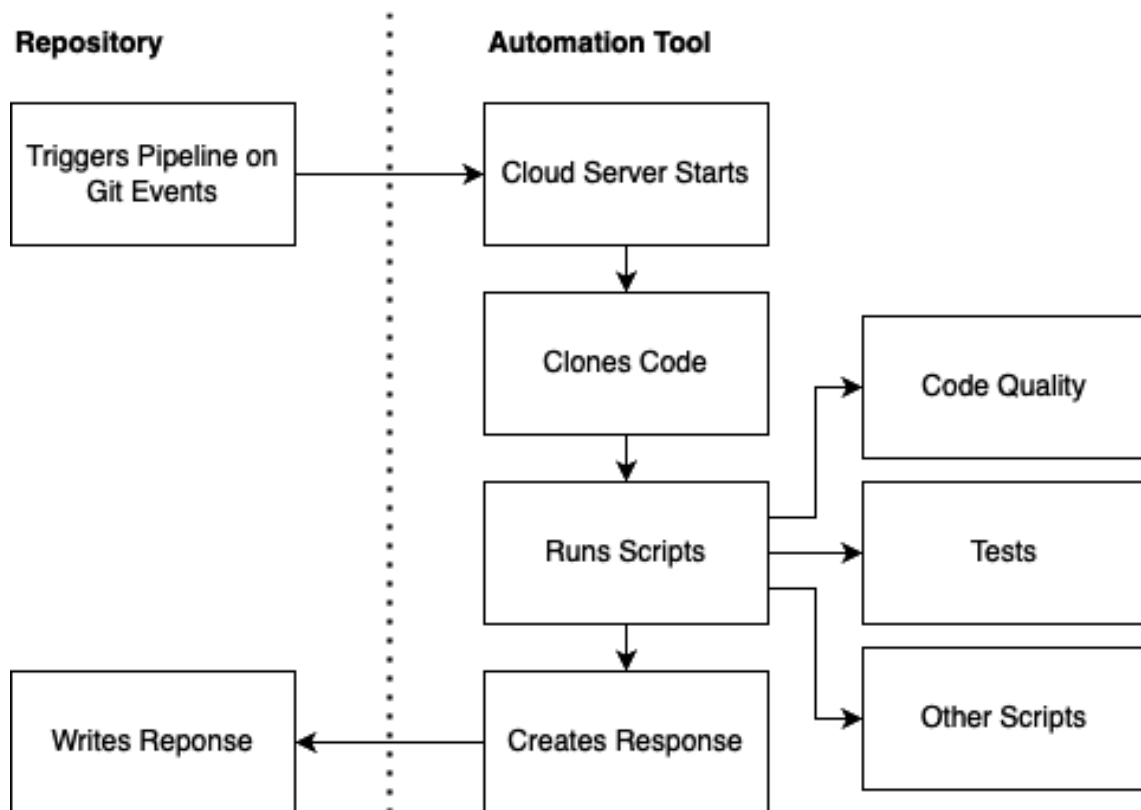
```

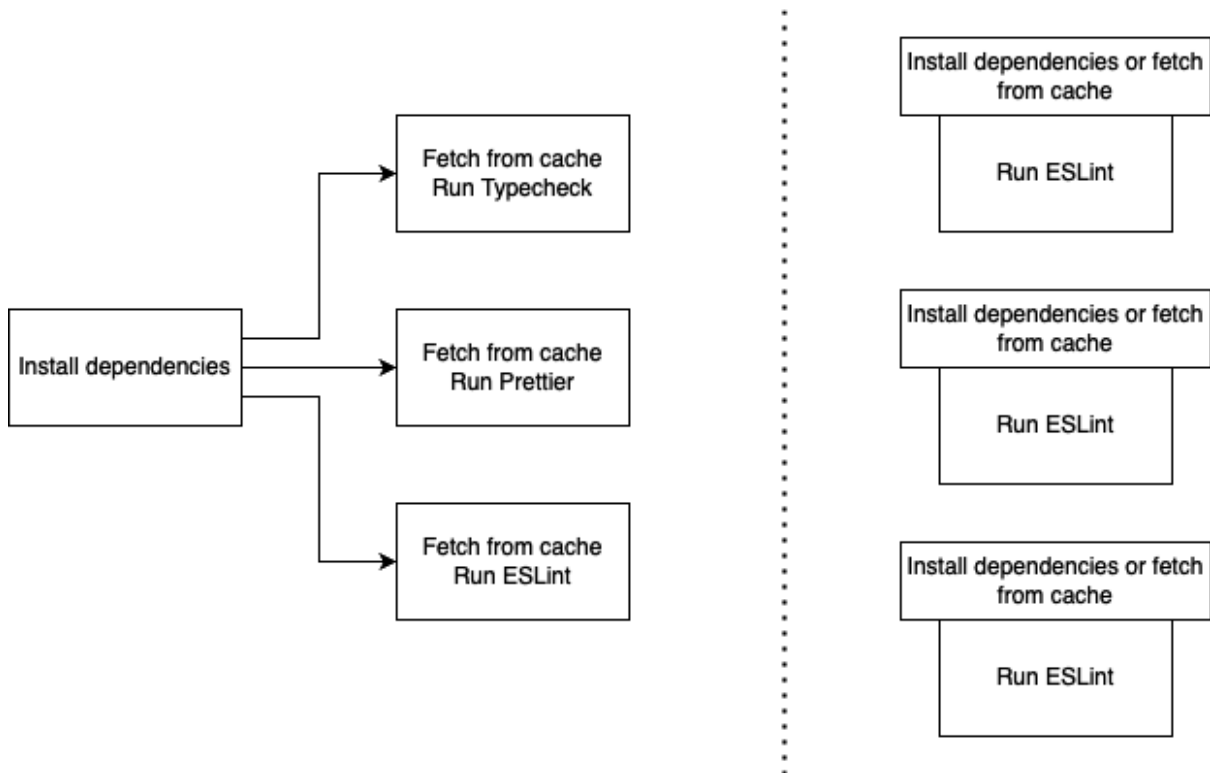
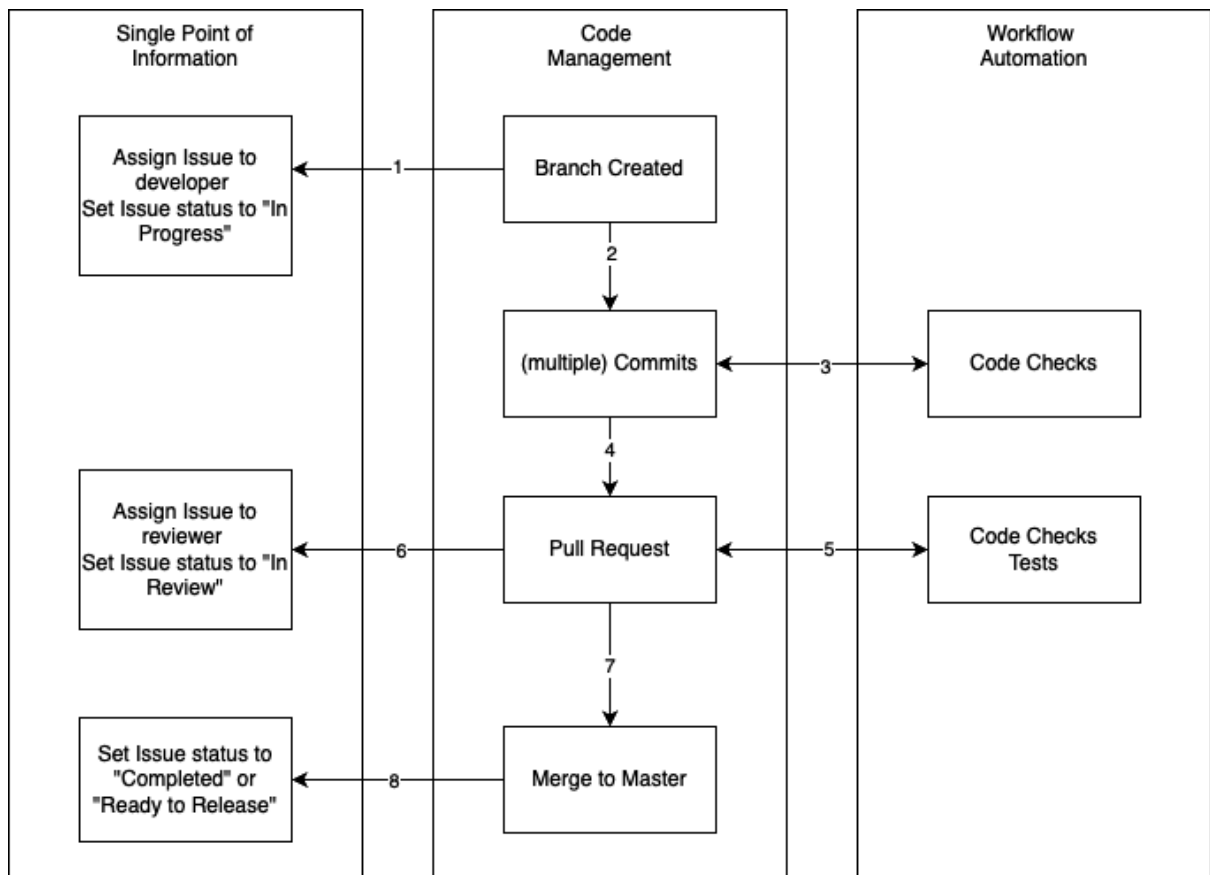
```

2 import {
3   ColorConstants,
4   FontConstants,
5   SizeConstants,
6+ } from 'prn-video-example-styles';

```

## Chapter 11: Creating and Automating Workflows





Workflows

New workflow

All workflows

Check files on push

All workflows

Showing runs from all workflows

Filter workflow runs

4 workflow runs	Event	Status	Branch	Actor
<div>✓ fix code for pipeline</div> <div>Check files on push #5: Commit 176a6c0 pushed by alexkuttig</div>	push	Success	master	alexkuttig
<div>✗ intentionally break pipeline</div> <div>Check files on push #4: Commit 3d2d745 pushed by alexkuttig</div>	push	Failure	master	alexkuttig
<div>✓ renamed job</div> <div>Check files on push #3: Commit fb7133f pushed by alexkuttig</div>	push	Success	master	alexkuttig

✗ intentionally break pipeline Check files on push #4

Re-run jobs

Summary

Jobs

✗ run-checks

run-checks

failed 13 minutes ago in 36s

Search logs

> ✓ Set up job0s

> ✓ Run actions/checkout@v20s

> ✓ Install modules30s

> ✗ run typecheck3s

1 ▶ Run npm run typecheck

4

5 > videoexample@0.0.1 typecheck

6 > tsc --noEmit

7

8 src/views/genre/Genre.tsx(15,62): error TS2344: Type '"Genre-fail"' does not satisfy the constraint 'keyof MainStackParamList'.

9 src/views/genre/Genre.tsx(23,41): error TS2532: Object is possibly 'undefined'.

10 src/views/genre/Genre.tsx(23,60): error TS2339: Property 'genre' does not exist on type 'Readonly<unknown>'.


11 src/views/genre/Genre.tsx(25,16): error TS2532: Object is possibly 'undefined'.

12 src/views/genre/Genre.tsx(25,35): error TS2339: Property 'genre' does not exist on type 'Readonly<unknown>'.

13 src/views/genre/Genre.tsx(28,7): error TS2532: Object is possibly 'undefined'.


14 src/views/genre/Genre.tsx(28,26): error TS2339: Property 'genre' does not exist on type 'Readonly<unknown>'.

15 Error: Process completed with exit code 2.




Activate SSH key (RSA priv...  
4.x.x

+




Git Clone Repository  
↑ 4.X.X

+




Install npm libraries  
1.x.x




Run CocoaPods install  
2.x.x

+




Fetch translations  
1.x.x

+




Set iOS Info.plist Values (unified)  
1.x.x




Manage iOS Code Signing  
1.x.x

+




Xcode Archive & Export for...  
↑ 4.3.X

+




Deploy to App Store Conn...  
2.x.x




Activate SSH key (RSA priv...  
4.x.x

+




Git Clone Repository  
↑ 4.X.X

+




Install npm libraries  
1.x.x




Install missing Android SD...  
↑ 2.X.X

+




Change Android versionCo...  
1.x.x

+




Fetch translations  
1.x.x



Build app  
1.x.x

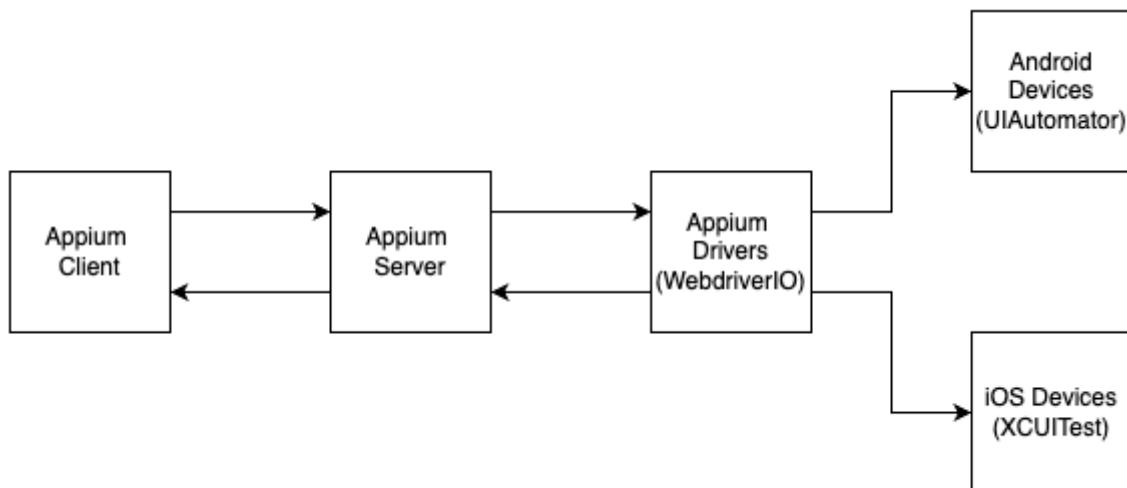
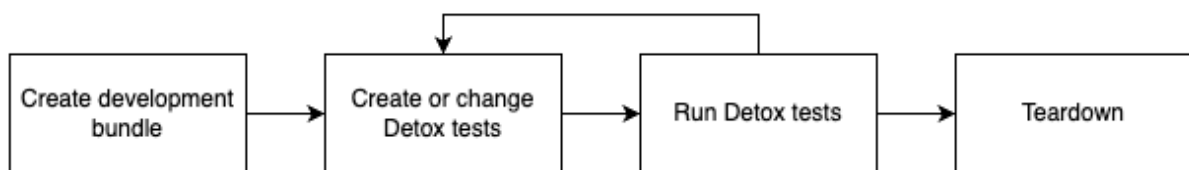
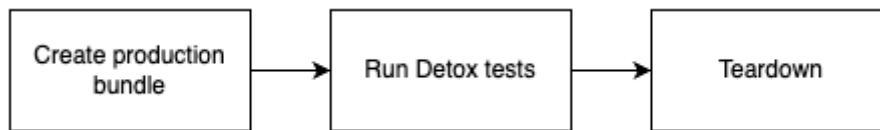
+

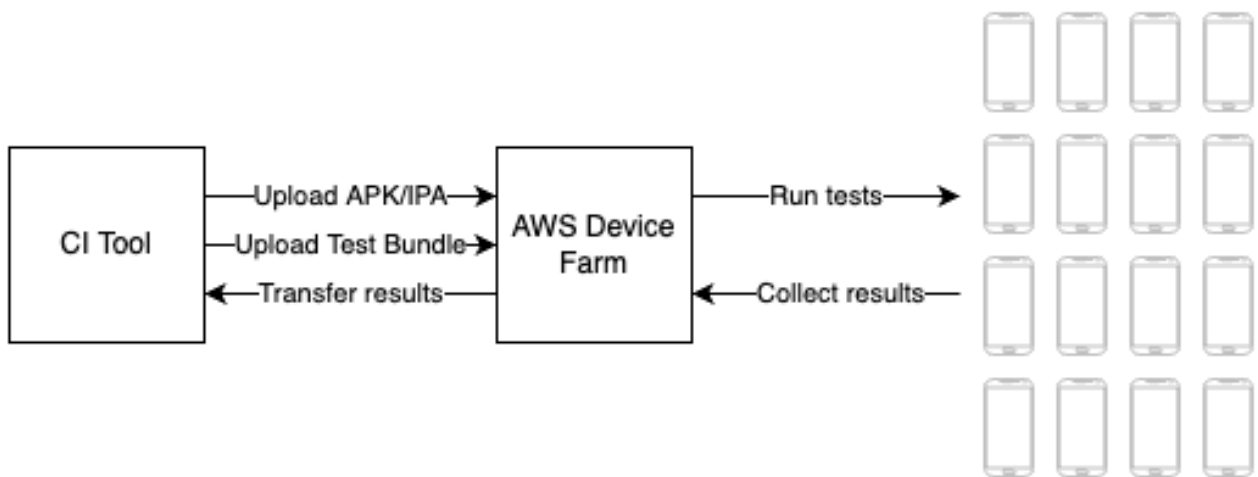


Google Play Deploy  
3.x.x

+

## Chapter 12: Automated Testing for React Native Apps





**Device Farm**

Mobile Device Testing

Projects

Device slots

Private devices

Public devices

Desktop Browser Testing

Projects

Documentation

Device Farm > Mobile Device: Projects > Automated tests > Run

app-universal-release.apk

Scheduled at: Thu, 29 Oct 2020 19:26:02 GMT

Run ARN:

arn:aws:devicefarm:us-west-2:599739438442:run:7556140c-9e6f-45aa-9dea-4aa605057d19/0ae087fa-6eb7-4fec-b799-0463e2fcd96

Failed

2 tests, 1%

Passed

133 tests, 99%

Passed

Failed

Errored

Warned

Stopped

Skipped

Devices

Unique problems

Screenshots

Parsing result

Tags

Devices

Find device by status, device name, OS or instance ID

<

1

2

>

Status	Device	OS	Test Results	Total time
Passed	<a href="#">Galaxy S8 Unlocked</a>	7.0	Passed: 3, errored: 0, failed: 0	00:05:00
Passed	<a href="#">Galaxy S8 Unlocked</a>	8.0.0	Passed: 3, errored: 0, failed: 0	00:04:55
Passed	<a href="#">Google Pixel</a>	7.1.2	Passed: 3, errored: 0, failed: 0	00:05:07
Passed	<a href="#">Google Pixel 2</a>	8.0.0	Passed: 3, errored: 0, failed: 0	00:04:38
Passed	<a href="#">Google Pixel 2</a>	9	Passed: 3, errored: 0, failed: 0	00:04:25
Errored	<a href="#">Google Pixel 2 XL</a>	8.1.0	Passed: 0, errored: 0, failed: 0	00:00:00
Passed	<a href="#">Google Pixel 2 XL</a>	9	Passed: 3, errored: 0, failed: 0	00:04:25
Passed	<a href="#">Google Pixel 3</a>	10	Passed: 3, errored: 0, failed: 0	00:04:05
Passed	<a href="#">Google Pixel 3</a>	9	Passed: 3, errored: 0, failed: 0	00:04:01
Passed	<a href="#">Google Pixel 3 XL</a>	9	Passed: 3, errored: 0, failed: 0	00:04:01



## Chapter 13: Tips and Outlook

