

REST Data in Server-side Rendering and getInitialProps



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Important new static
method coming:
`getInitialProps`



The Plan for This Module

Solve the puzzle

Learn how server-side rendered HTML must sync with client-side JavaScript

Program asynchronously on the server

Learn a clean technique for handling async data (think REST) on the server

URL routing whether server-side or client-side

Learn about the difference between client and server-side routing



Server-side and Client-side Rendering



NodeJS runs JavaScript

React started and all
Component constructors run

`componentDidMount` not run

Component render methods
called

All rendered static HTML sent to
client browser



HTML downloaded from server

Script tags download JavaScript
files

JavaScript executes including
All React components

Component constructors run

Component lifecycle events
including `componentDidMount` run

Component render methods called



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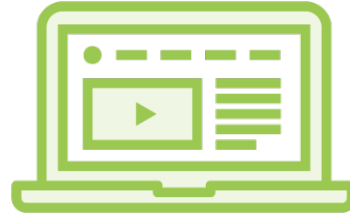
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Component constructors run

`componentDidMount` not run

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React properties serialized to
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Script tags download JavaScript
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JavaScript executes including
All React components

React properties picked up
From static HTML page and passed
to constructor

Component constructors run

Component lifecycle events
including `componentDidMount` run

Component render methods called



URL Landing Page Lifecycle



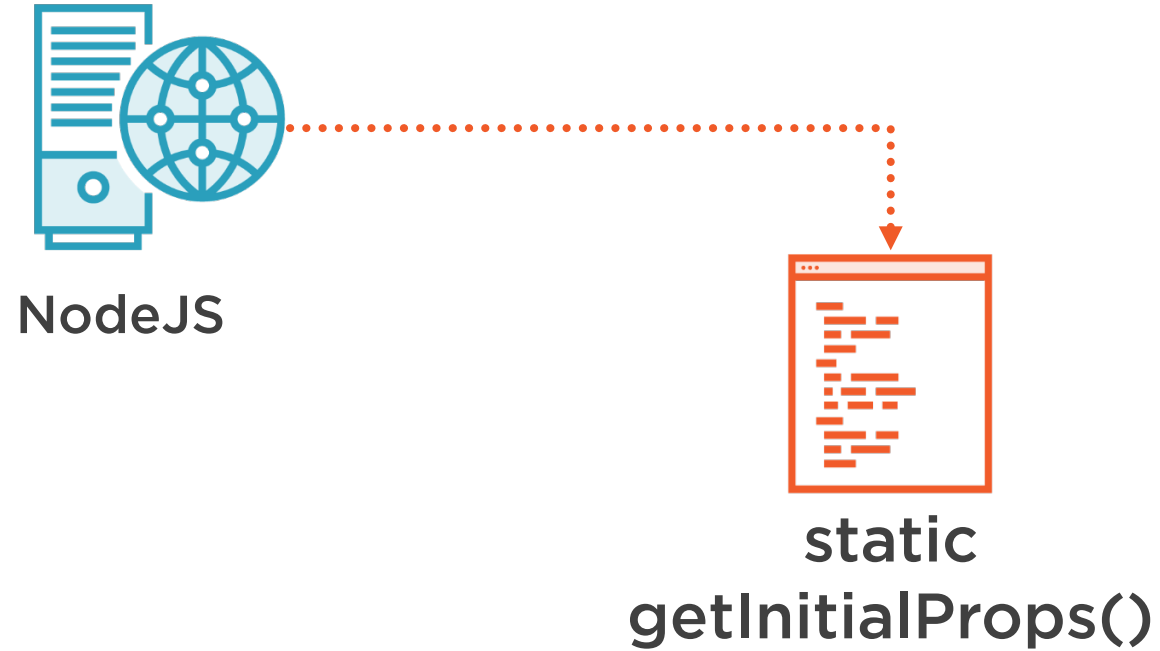
URL Landing Page Lifecycle



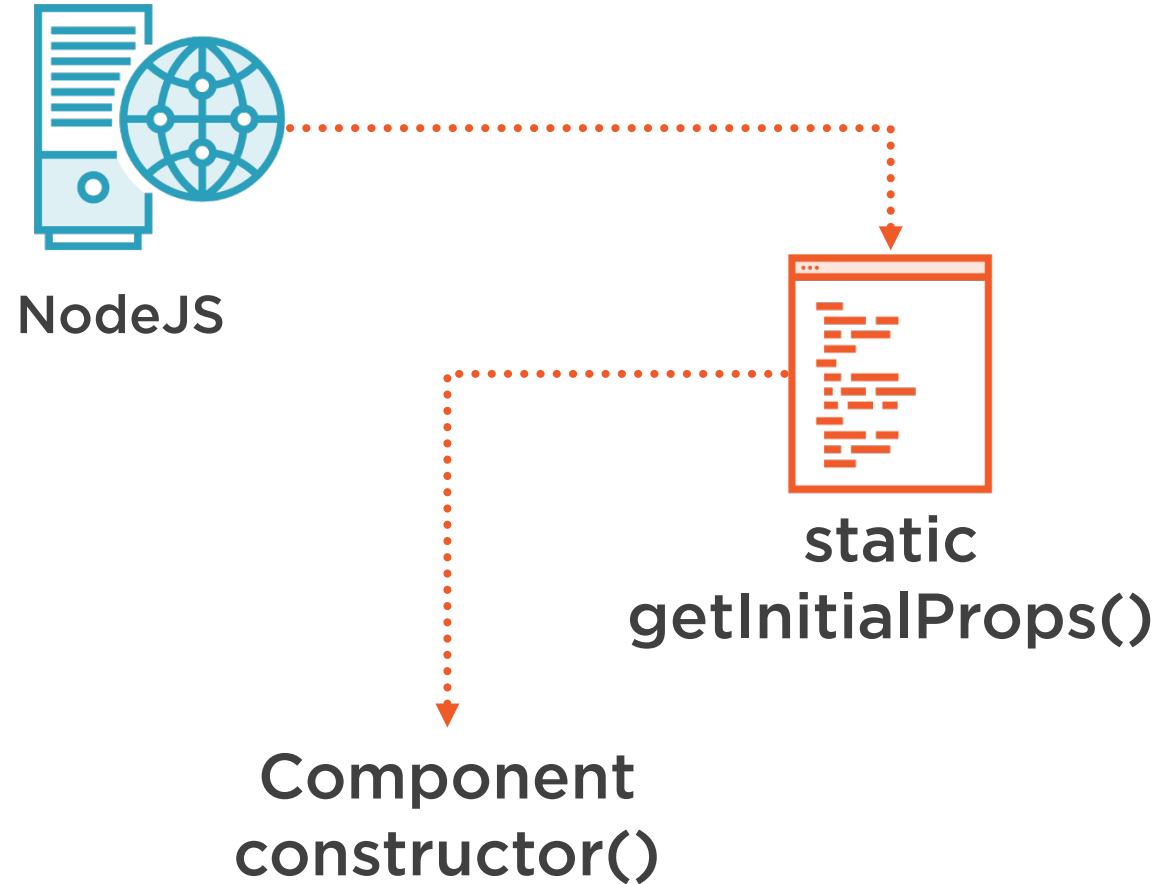
NodeJS



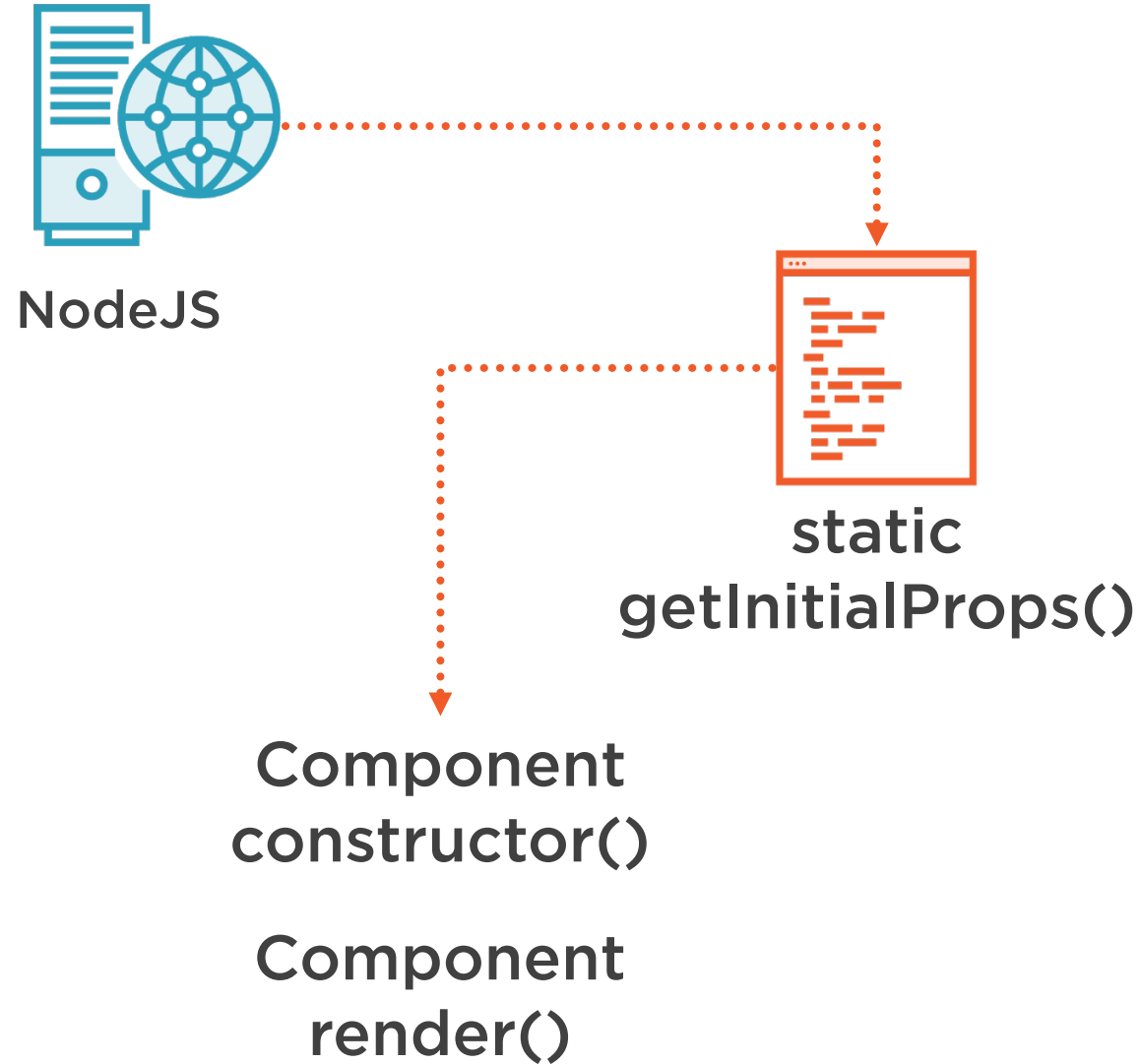
URL Landing Page Lifecycle



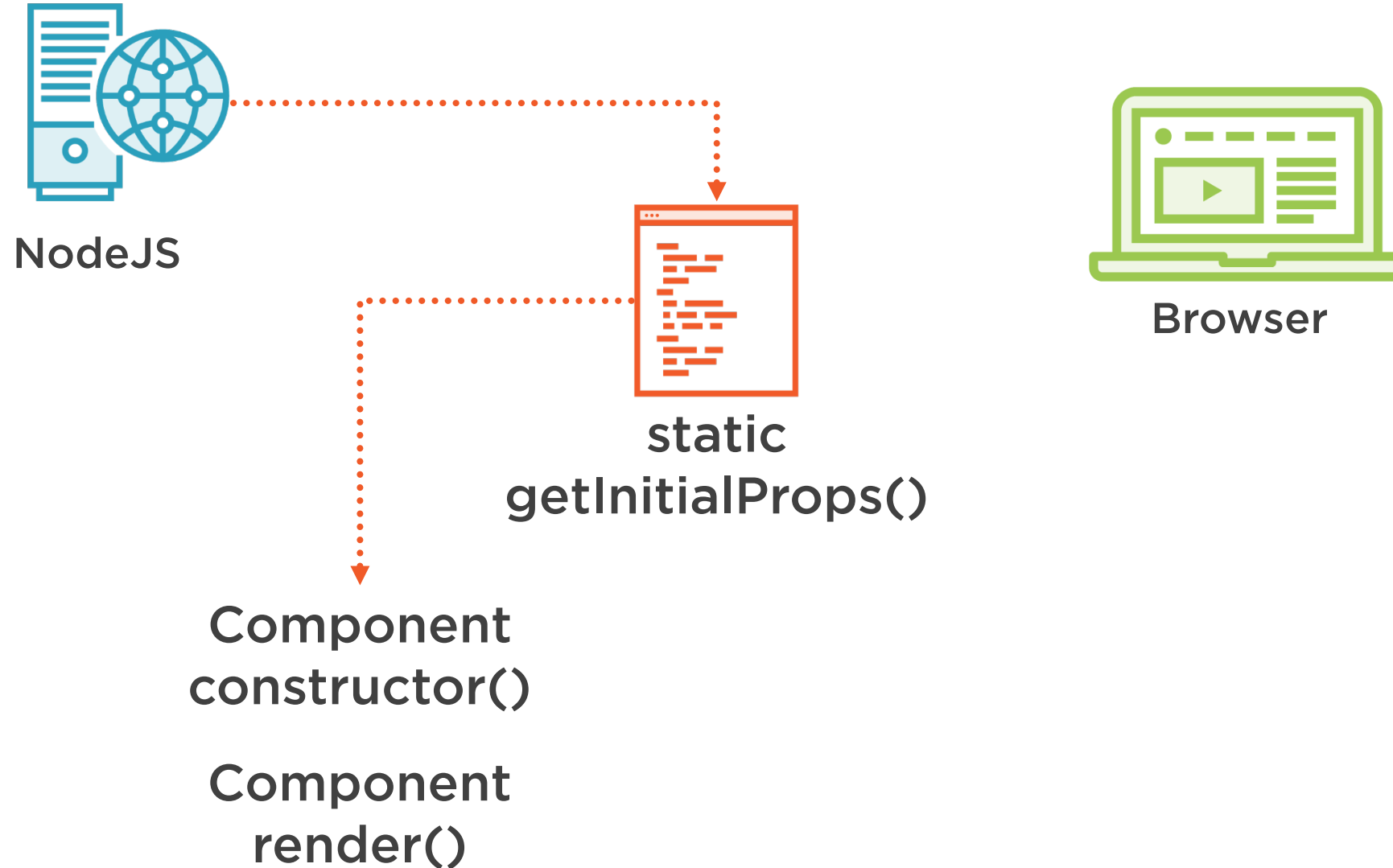
URL Landing Page Lifecycle



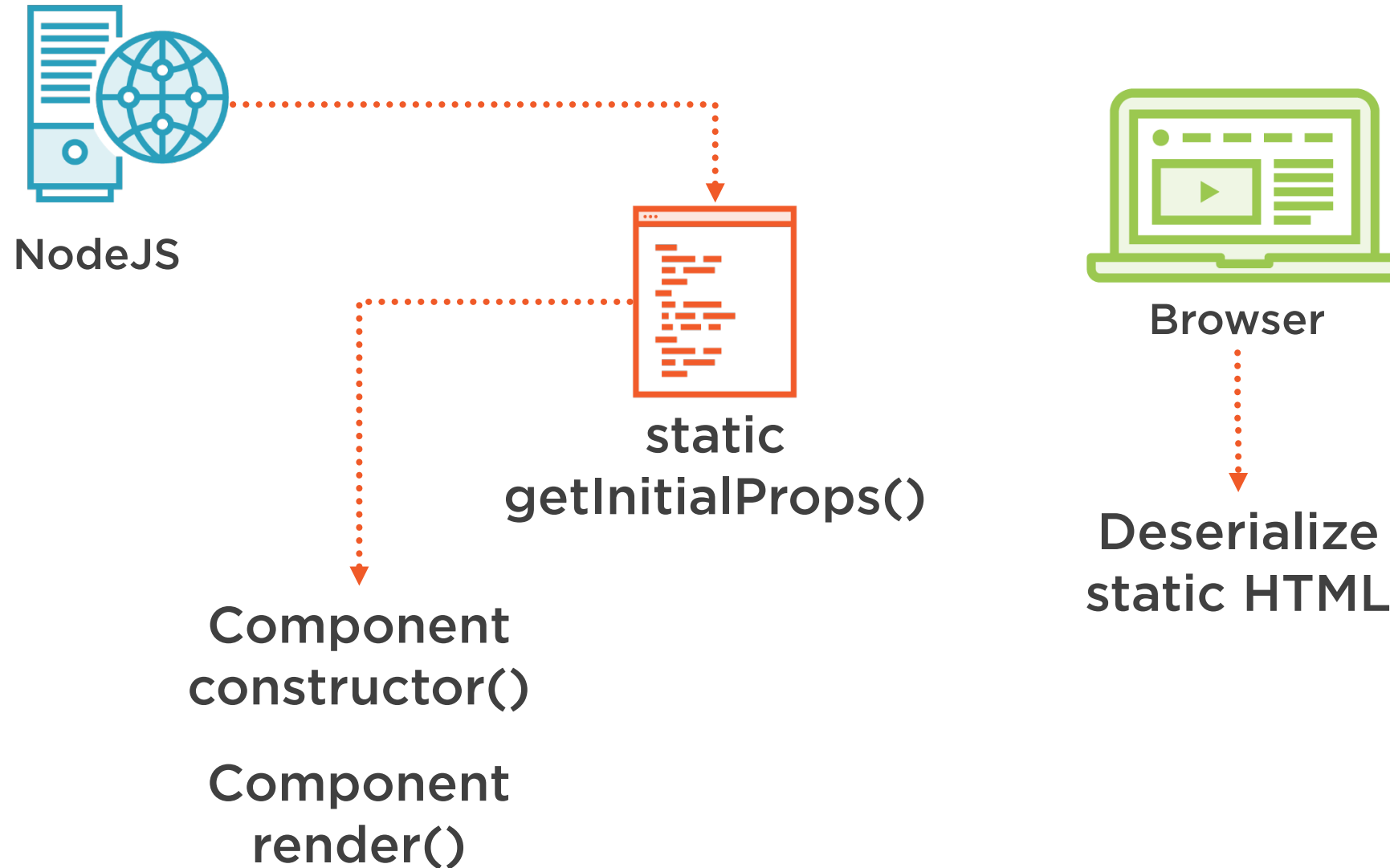
URL Landing Page Lifecycle



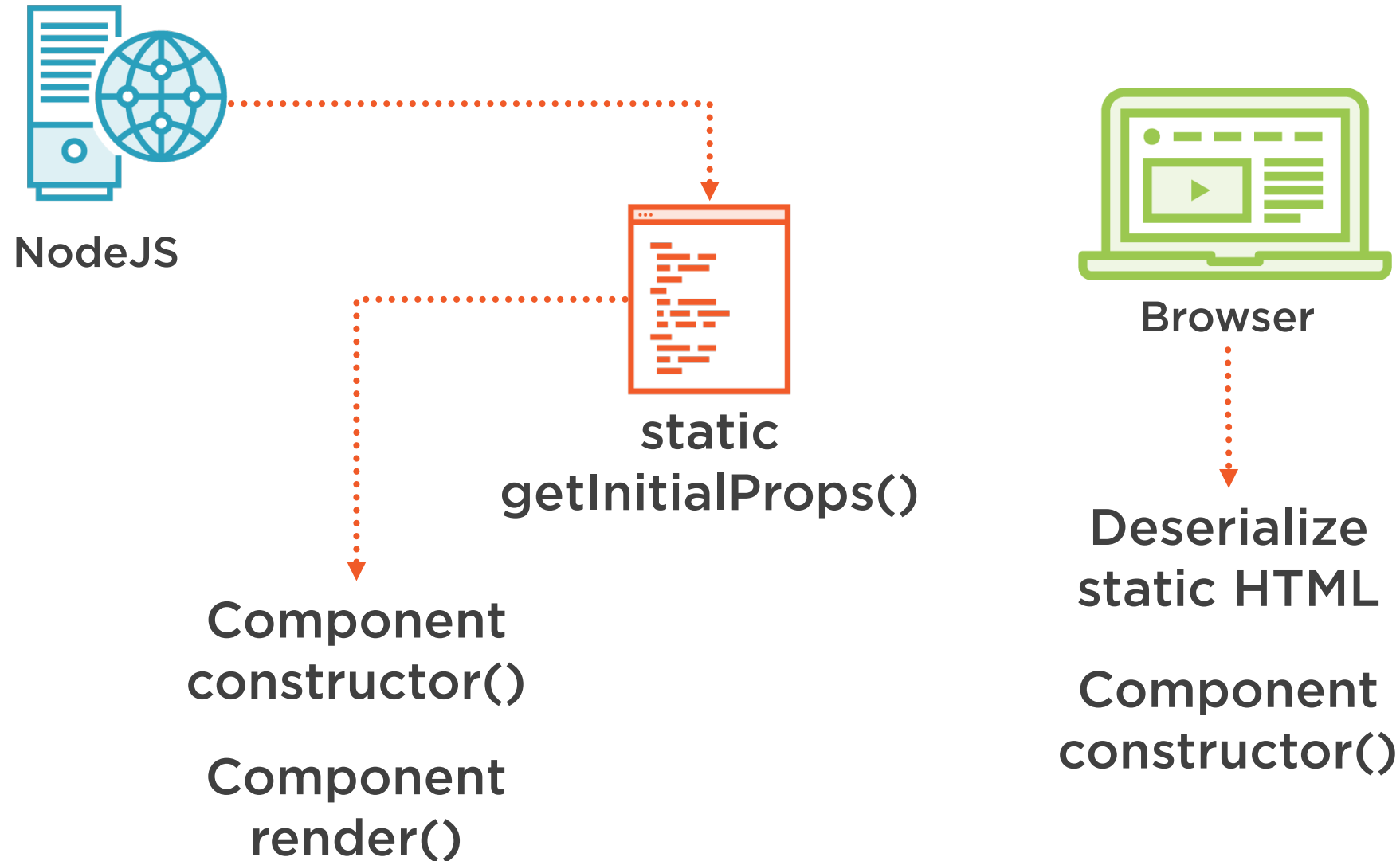
URL Landing Page Lifecycle



URL Landing Page Lifecycle



URL Landing Page Lifecycle



Demo



Client-side routing

Server-side routing



Takeaways



Render server and client side easy

`getInitialProps` runs first

`getInitialProps` can return promises

Naked promise example

REST return as promise example

