29th June 2020	REACTJS→ Sundeep SIr	Woodpecker
- Event and Synthetic Event - Passing fn as prop - This anomaly and how to bind/arrow fn - Usage of setState	Lecture flow: Discussed some student doubts Lifecycle Methods in React Lifting the State	

Topics & Explanation: Github link for Class Codes

Reference

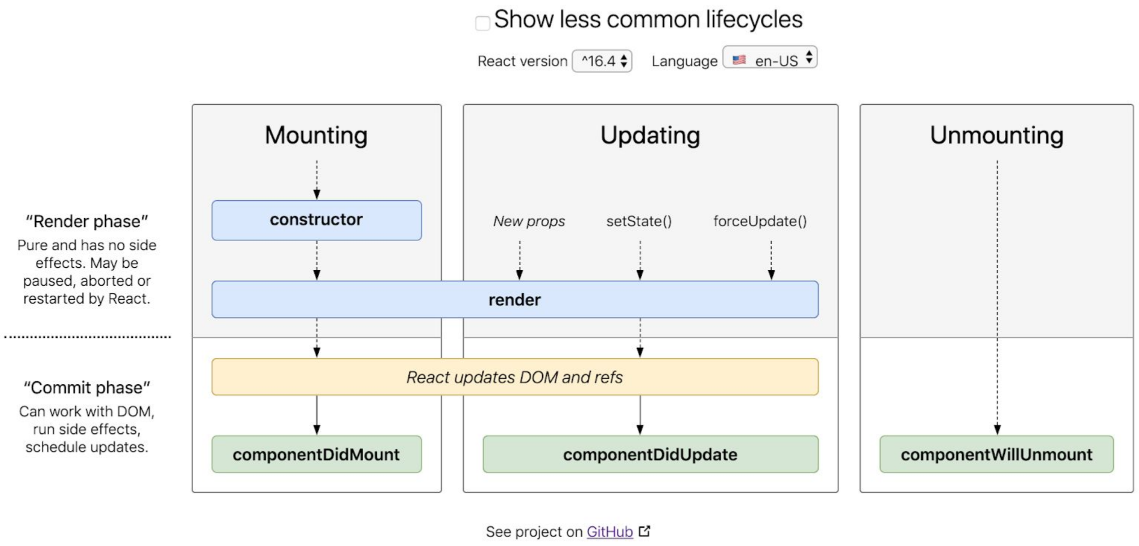
React Lifecycle:

What are Lifecycle Methods,in general?

- Everything has a lifespan,that applies for components of React too.
- Play special attention to will and did in Lifecycle methods

Lifecycles methods in React

- Each component in React has a lifecycle which you can monitor and manipulate during its three main phases.
- The three phases are: Mounting, Updating, and Unmounting.
- Can be accessed in Class based Components


□ Show less common lifecycles

React version ^16.4 Language en-US

See project on GitHub

In simple words,Each component has several "Lifecycle Methods" that we can override to run code at particular times in the process

- React provides the developers a set of predefined functions that if present is invoked around specific events in the lifetime of the component.

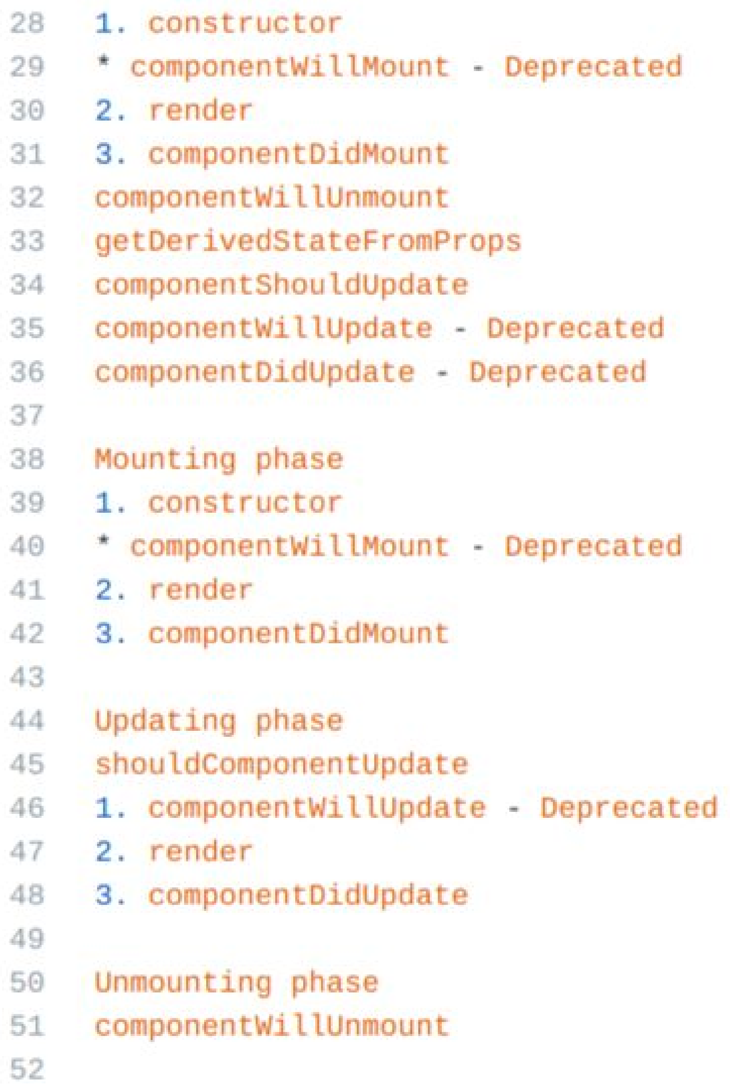
Click me!

React JS

React.Component – React

React Lifecycle

- Developers are supposed to override the functions with desired logic to execute accordingly.



```
1. constructor
* componentWillMount - Deprecated
2. render
3. componentDidMount
componentWillUnmount
getDerivedStateFromProps
componentShouldUpdate
componentWillUpdate - Deprecated
componentDidUpdate - Deprecated

Mounting phase
1. constructor
* componentWillMount - Deprecated
2. render
3. componentDidMount

Updating phase
shouldComponentUpdate
1. componentWillUpdate - Deprecated
2. render
3. componentDidUpdate

Unmounting phase
componentWillUnmount

```

Initialization:

In this phase the developer has to define the props and initial state ofthe component this is generally done in the constructor of the component.

Mounting:

Mounting is the phase of the component lifecyle when the initialization of the component is completed and the component is mounted on the DOM and rendered for the first time in the webpage. Now React follows a default procedure in the Naming Conventions of this predefined functions where the functions containing "Will" represents before some specific phase and "Did" represents after the completion of that phase. Mounting phase consists of two such predefined functions as described below.

- componentWillMount() Function: As the name clearly suggests, this function is invoked right before the component is mounted on the DOM i.e. this function gets invoked once before the

A React Lift State Up & Down Example

render() function is executed for the first time.

- componentDidMount() Function: Similarly as the previous one this function is invoked right after the component is mounted on the DOM i.e. this function gets invoked once after the render() function is executed for the first time.

Updation:

React is a JS library that helps create Active web pages easily. Now active web pages are specific pages that behave according to its user. For example, let's take an webpage, the webpage acts differently with each user. User A might write some code in C in the Light Theme while another User may write a Python code in the Dark Theme all at the same time. This dynamic behavior that partially depends upon the user itself makes the webpage an Active webpage.

Now how can this be related to Updation? Updation is the phase where the states and props of a component are updated followed by some user events such as clicking, pressing a key on keyboard etc. The following are the descriptions of functions that are invoked at different points of Updation phase.

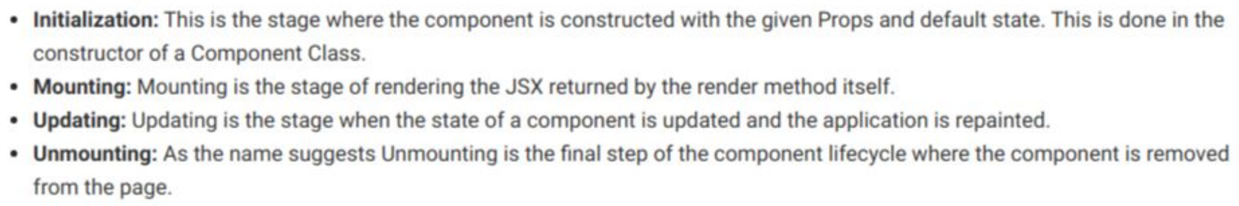
Unmounting:

This is the final phase of the lifecycle of the component that is the phase of unmounting the component from the DOM. The following function is the sole member of this phase.

- componentWillUnmount() Function: This function is invoked before the component is finally unmounted from the DOM i.e. this function gets invoked once before the component is removed from the page and this denotes the end of the life cycle.

Please go through Codes

In simple words:



- **Initialization:** This is the stage where the component is constructed with the given Props and default state. This is done in the constructor of a Component Class.
- **Mounting:** Mounting is the stage of rendering the JSX returned by the render method itself.
- **Updating:** Updating is the stage when the state of a component is updated and the application is repainted.
- **Unmounting:** As the name suggests Unmounting is the final step of the component lifecycle where the component is removed from the page.

Footnotes:

State Lifting:

Lifting state up in React.js

Links:

State and Lifecycle – React
React.Component – React
React Lifecycle
Lifting state up in React.js

Link to the lecture video:- DASHBOARD   Github link for Class Codes

Summary: Revision→ReactJS→ Cleared Doubts → Discussed about Lifecycle Methods → Introduced to State Lifting