

Instagram Feed Using ReactJS

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Key Topics

- BEM (Block Element Modifier)
- Intro to ReactJS
- Intro to Redux

DEMO



BEM

What

- Enforces naming conventions
- Helps you to create reusable components

Why

- Ensures that everyone who participates in the development of a website works with a single codebase and speaks the same language.
- Will better prepare you for design changes made to your website

Block

- The block name describes its purpose ("What is it?" — menu or button), not its state ("What does it look like?" — red or big).
- Blocks can be nested in each other.
- You can have any number of nesting levels.

```
<!-- `header` block -->
<header class="header">
  <!-- Nested `logo` block -->
  <div class="logo"></div>

  <!-- Nested `search-form` block -->
  <form class="search-form"></form>
</header>
```

Element

- The element name describes its purpose ("What is this?" — item, text, etc.), not its state ("What type, or what does it look like?" — red, big, etc.).
- A composite part of a block that can't be used separately from it.
- Named as block-name__element-name.

```
<!-- `search-form` block -->
<form class="search-form">
  <!-- `input` element in the `search-form` block -->
  <input class="search-form__input">

  <!-- `button` element in the `search-form` block -->
  <button class="search-form__button">Search</button>
</form>
```

Nesting

```
<!--
    Correct. The structure of the full element name follows the pattern:
    `block-name__element-name`
-->
<form class="search-form">
    <div class="search-form__content">
        <input class="search-form__input">

        <button class="search-form__button">Search</button>
    </div>
</form>

<!--
    Incorrect. The structure of the full element name doesn't follow the pattern:
    `block-name__element-name`
-->
<form class="search-form">
    <div class="search-form__content">
        <!-- Recommended: `search-form__input` or `search-form__content-input` -->
        <input class="search-form__content__input">

        <!-- Recommended: `search-form__button` or `search-form__content-button` -->
        <button class="search-form__content__button">Search</button>
    </div>
</form>
```

Modifier

- The modifier name describes its appearance, its state, and its behavior.
- An entity that defines the appearance, state, or behavior of a block or element.
- Named as element-name_modifier or element-name--modifier.

```
<!-- The `search-form` block has the `focused` Boolean modifier -->
```

```
<form class="search-form search-form_focused">
```

```
  <input class="search-form__input">
```

```
<!-- The `button` element has the `disabled` Boolean modifier -->
```

```
  <button class="search-form__button search-form__button_disabled">Search</
```

```
</form>
```

<https://en.bem.info/>

ReactJS

A javascript library that helps building modular UI easily with better performance, with the help of concepts like components and virtual dom, etc.

- JSX - javascript syntax extension used for creating react elements easily
- Components
- Props
- States
- API calls
- Event handling

Non-JSX

```
var nav = React.createElement(  
  "ul",  
  { id: "nav" },  
  React.createElement(  
    "li",  
    null,  
    React.createElement(  
      "a",  
      { href: "#" },  
      "Home"  
    )  
  )  
);
```

Using JSX

```
var nav = (  
  <ul id="nav">  
    <li><a href="#">Home</a></li>  
  </ul>  
);
```

Components

- Components let you split the UI into independent, reusable pieces, and think about each piece in isolation
 - Components are like JavaScript functions.
 - There can be two types of components - functional and class based
-

Props (are Read-Only)

- Behaves just like function argument.
- Used for passing data from parent to child component(s).

State

- Stores data that belongs to the component.
- To re render any component the state needs to be updated.
- Helps in making a component truly reusable.



API call

- Use `componentDidMount` lifecycle method (gets hooked when rendering of component is finished).
- Fetch data using native Fetch API.
- Do whatever with the data.

Event Handling

Flashback

- Created an app using create-react-app boilerplate
 - Created few components while making use of props as well as state.
 - Used a lifecycle method to make an API call.
-

Q/A

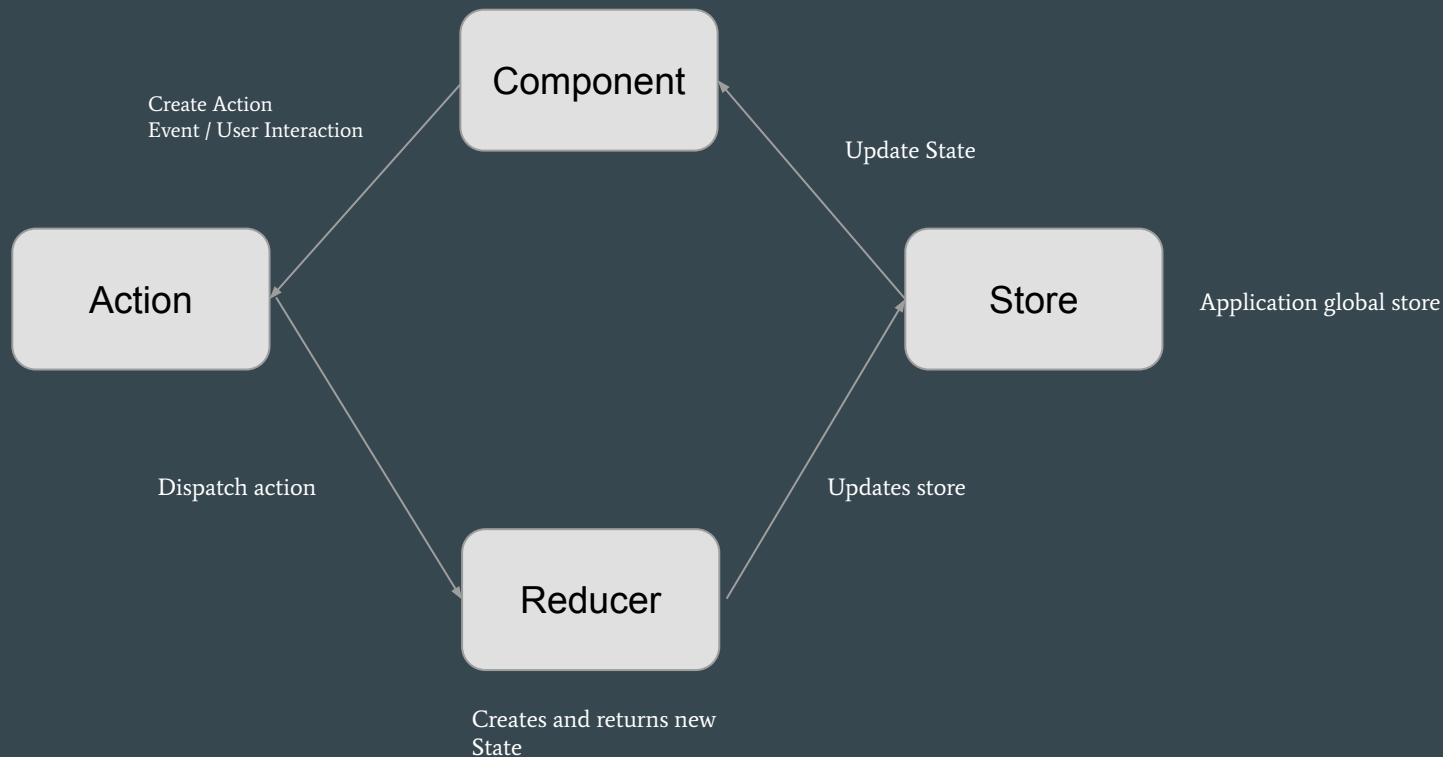
REDUX

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REDUX

Maintains the state of an entire application in a single immutable state tree (object), which can't be changed directly. When something changes, a new object is created (using actions and reducers).

REDUX data flow



Q/A

THANK YOU

