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INSTRUCTIONS

Give at least two examples of a frontend framework. Describe the framework by discussing its origin, features and advantages compare to another frontend framework.

1. React JS

- Origin

React was originally created by Jordan Walke by developing a prototype called “FaxJS” back in 2011. Walke’s prototype was first used to manage Facebook ads, then through the years, it got developed and open sourced. Today, a small dev team from Meta leads the development of React.

- Features

- JavaScript Syntax Extension (JSX)
- Unidirectional data flow and flux. React can only support data that is flowing downstream.
- Virtual Document Object Model (VDOM). React has a lightweight representation of DOM called the Virtual DOM.
- Extensions. React supports various extensions.
- Debugging. Facebook has provided a browser extension that makes React debugging faster and easier.

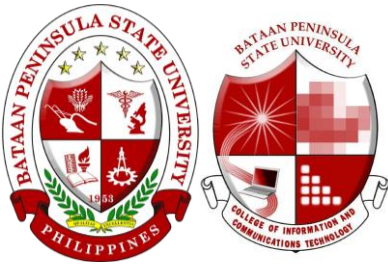
- Advantages

- This framework is easy to learn and utilize.
- React allows the reuse of an already built component in the code, making collaboration and utilization of said components to other parts of the application easier.
- It allows seamless performance while also ensuring fast-rendering for high-load applications.
- Changes can be easily made, therefore, productivity increases.

2. jQuery

- Origin

At an event called BarCampNYC in 2006, John Resig released an initial version of jQuery. Through the years, jQuery was developed to adopt more sophisticated techniques, making it a standard dependency for websites. According to W3Techs, 74% of websites implement the use of jQuery.



- Features

- Simplicity and usability. The framework is flexible and not complex. Because of this, developers can easily create basic application interfaces in HTML with the use of minimal to none JavaScript codes.
- Supports user-friendly inputs like touch, mouse, and cursor focus-based user input functionalities with the help of API.
- Accessibility. Aside from the framework's cross-platform capabilities, jQuery is designed to have a strong consideration for accessibility.
- Lightweight. jQuery's size is considered lightweight, making way for swiftness.
- Theming and UI widgets. The framework allows the developers to incorporate their own styling through its built-in theme system.
- Responsiveness. jQuery makes way for responsiveness on different types of screens.

- Advantages

- This framework is simple and easy to understand.
- Albeit the simplicity, it can be used in creating a dynamic application.
- Its DOM is flexible; hence, changes can be easily made.

References

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