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Angular vs React : Comparing Differences

With so many JavaScript frameworks available for server-side and client-side Angular and React are popular among them. Here are the key differences between the two to help you choose them effectively for your next project.

Choosing upon angular services and react services for your website can be overwhelming these days as both stand as popular JavaScript frameworks. Angular and React are widely adopted JavaScript (JS) technologies that are used to create interactive single-page applications (SPAs). We have listed few quick points below that makes angular and react stand out in their own way.

Technology	Angular	React
Type	MVC framework written in JavaScript	JavaScript Library that has view in MVC, however requires flux to implement architecture
Concept/ Process	Works by bringing JavaScript into HTML with the real DOM client-side rendering	Works by bringing HTML into JavaScript with virtual DOM server-side rendering
Data Binding	Two-way data binding	One-way data binding
Dependencies	Manages dependencies automatically	Requires additional tools to manage dependencies
Best suited	Best for SPA's that update single view at a time	Best for SPA's that update many views at a time

We have further discussed their individual differences with respect to componentization, performance, data binding, directives, and templates.

Componentization

Angular has a fixed structure and it is based on the three layers that are Model, View, and Controller. The Model is initialized by the controller, which is then transformed into HTML to create View for the users.

React is created with a different architecture that is distinct from Angular but similar to MVC frameworks. There is no specific structure for React. React is a vast JavaScript library that updates the views for the users, the structure lacks model and controller layers, however Facebook introduced Flux that has better control on the application workflow

Performance

The advantage in Angular's performance is the feature of two-way data binding whereas React utilizes a virtual Document Object Model, which is considered as an advantage of React in comparison with other frameworks including Angular. However, the performance of an application may vary depending on the size of the application and code optimization.

Data Binding

The Data binding concept is considered as major difference between Angular and React. Angular web development uses Two-way data binding which means that any change in the UI field would also change the data in the model dynamically. In case of React web development, it uses one-way data binding, where the data in the application flows in a single direction. Angular is efficient as developers find it easy to work with whereas React is more towards the structural representation, understandability because the data flows in a single direction

Directives and Templates

Angular Directives are used to organize the code around DOM. Developers can access the directives only through DOM. Developers can also create their own directives other than the standard directives (ng-bind, ng-app) that are available.

React does not distinguish between templates and directives, template logic should be written in the template itself. This approach of template and logic being placed in one place is better as we would spend lesser time in understanding.

Conclusion

Angular and React are different instruments that work great for single-page applications in their individual ways. Some developers may prefer angular after considering the reasons to choose angular and some may prefer react. However the decision would be with respect to the project requirements.

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