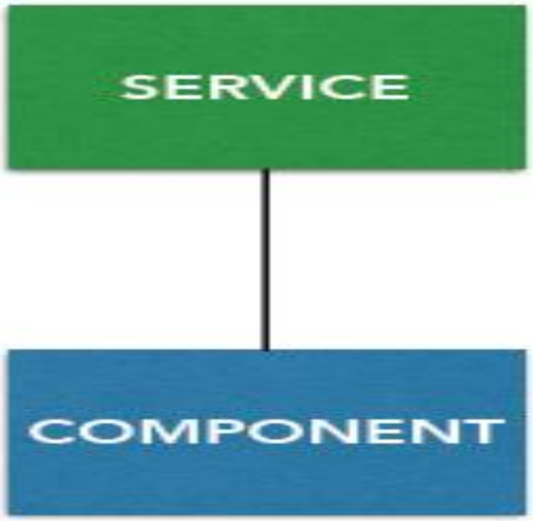
Redux

Redux

- Redux is a predictable state container for JavaScript application. It helps you write application that behave consistently, run in different environments (client, server and native).
- Simply put, Redux is a state management tool.
- With Redux, the state of your application is kept is a store and each component can access any state that it needs from this store.

Continue...

- In Angular if we can share the data between component using @Input/@Ouput.
- In React JS we can share the state(data) between two component using props.
- When the application is very big then it is very difficult to share the data between more than one components.
- Redux is a pattern/library from the React world. The purpose of Redux is to make application data more predictable by creating a one-way data flow.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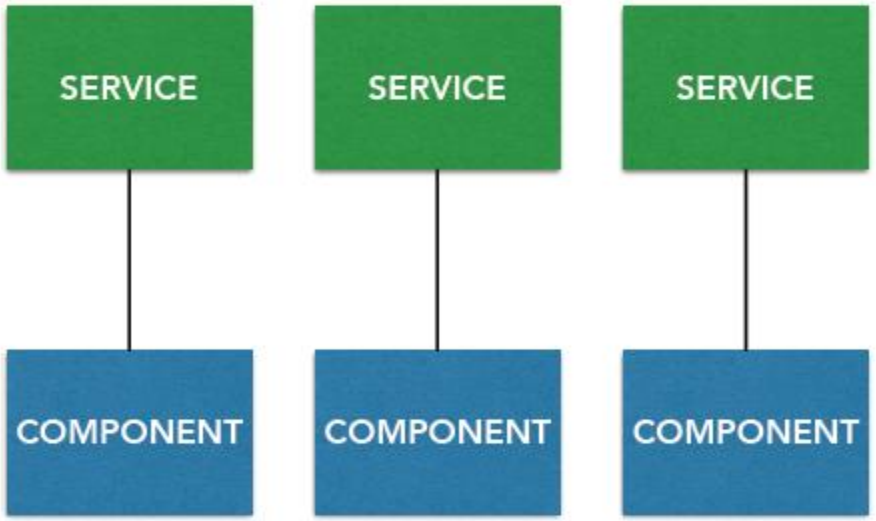
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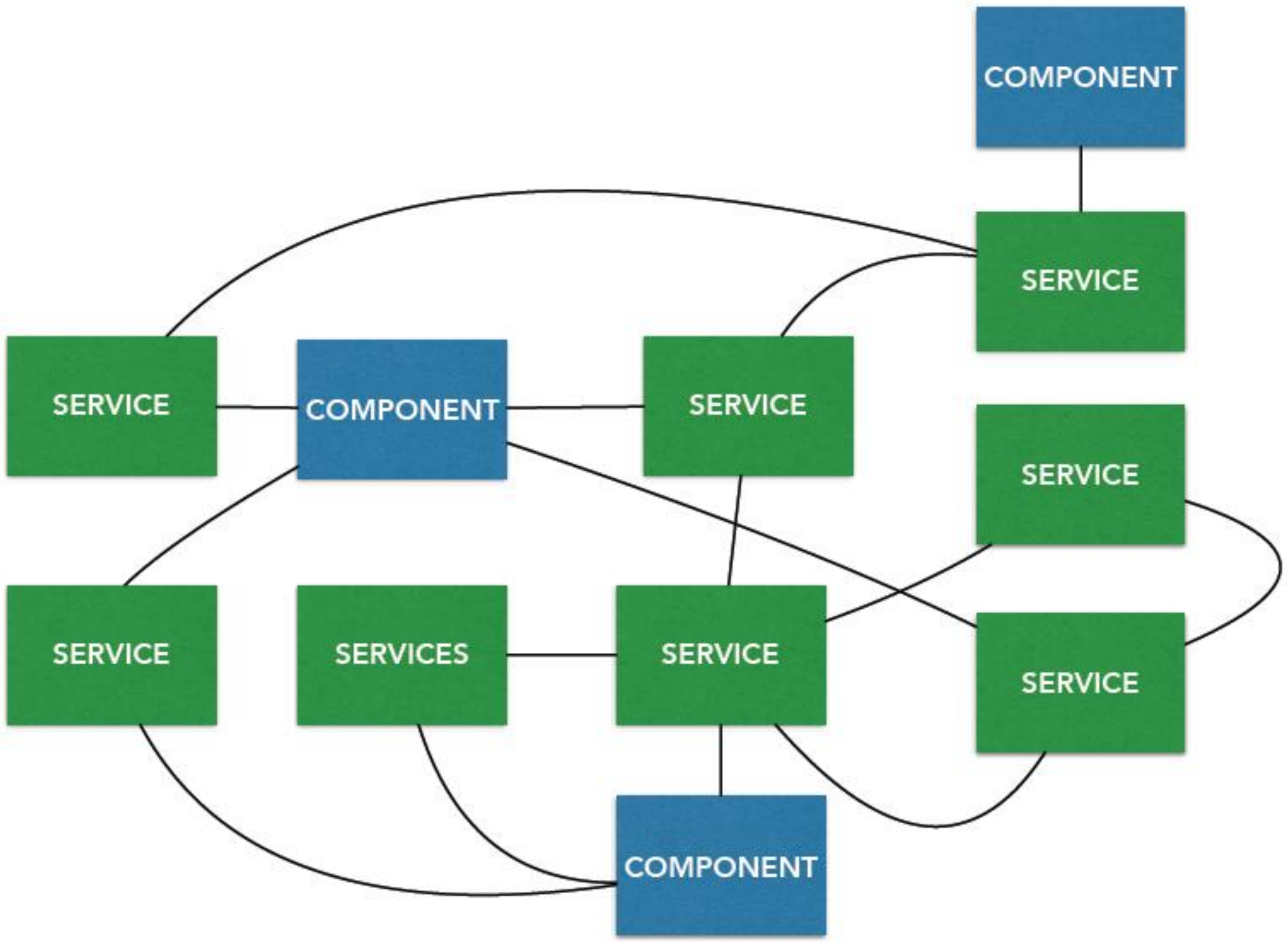
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SERVICES
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COMPONENT

CHANGING SOMETHING

BREAKS

SOMETHING SOMEWHERE

REDUX

Predictable state container for JavaScript apps.

SINGLE SOURCE OF TRUTH

"The state of your whole application is stored in an object tree within a single store"

Building parts in Redux

- 1. Store
- 2. Reducers
- 3. State
- 4. Actions

Store in Redux :

- To put simply, store is the "database" of our application. It comprises of different states defined in our application. The state, thus, is immutable and only altered by actions.
- The store hold the application state. There is only one store in any Redux application. your store can be thought of as a client side "single source of truth".
- You can access the state stored, update the state and register or unregister listeners via helper methods.

Reducer in Redux

- If the store is the database of the application, the reducers are the tables.
- Reducer are pure function that take the current state of an application perform an action and return a new state.
- The state are stored as object and they specify how the state of an application changes in response to an action sent to the store.
- Reducers take the previous state of the app and return a new state based on the action passed to it.

State in Redux

- State is a single immutable data structure. States are what makes up the store.
- As stated before, the reducers are like tables, and thus state are fields in the table.