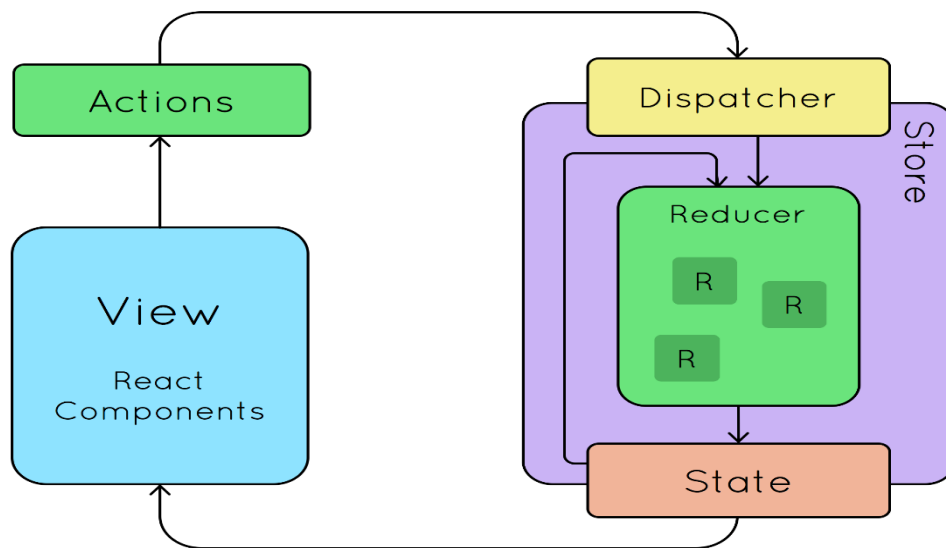


Frontend Engineer Assignment – Esper.io

Architecture: FLUX (redux)


I have used the Flux architecture as 'ActionCreator.js' (consists of reducer functions) dispatches the fetch request to the API, The HomeComponent displays the available devices upon successful response (200), Similarly GroupComponent displays all available groups for a user. The store is a centralized authority which store the states and periodically updates them as requested ny reducer functions (fetchDevices, fetchGroups, groupsLoading, groupsFailed, devicesFailed, groupsFailed), the Flux architecture advocates one directional data flow, so only after successful dispatch from the reducer function the states are updated, furthermore **promises** are used to attain asynchronous communication. A **promise** is an object that may produce a single value some time in the future : either a resolved value, or a reason that it's not resolved (e.g., a network error occurred). A **promise** may be in one of 3 possible states: fulfilled, rejected, or pending. Additionally **Reactstrap** has been used for mobile-first and 'responsive' web pages.



Middlewares used : Thunk, logger

The **thunk** is **used** to delay the dispatch of an action, or to dispatch only if a certain condition is met. If **Redux Thunk** middleware is enabled, any time you attempt to dispatch a function instead of an action object, the middleware will call that function with dispatch method itself as the first argument.

Logger aids the testing and troubleshooting process by providing a detailed log outputs of the actions beign performed

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- Model : Nexus 5X
- Serial Number : 0254ab57f38esperesperNexus5X0
- Total Ram : 1814
- Total Internal Storage Ram : 25482

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— Created on : 2020-06-03T18:51:37.479540Z
— Device count : 0

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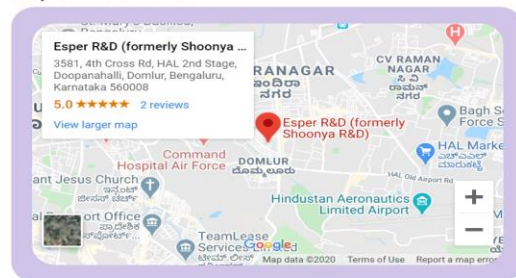
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About Us

Esper amid COVID

Esper's global workforce is headquartered in Seattle, WA, with offices in Menlo Park, CA, and Bangalore, India. Esper was among the first few companies to respond quickly and shifted to the work from home model in order to protect the health of our employees and our communities.

We decided to open our platform to healthcare institutions, to help them fight the pandemic. Esper is eager to help frontline healthcare workers restore safe communities. We have been giving free consultations to companies providing essential healthcare on technology challenges and the best way you can overcome them.

Facts At a Glance

Started	3 Feb. 2015
Major Stake Holder	Its developers
Last Year's Turnover	\$1,250,375
Employees	40

Esper raised Rs 6 lakh for Feed My Bangalore, initiative with contributions from our global team and leadership.

— Source : [LinkedIn](#)

Esper's developer Kiran Anto created a hyperlocal essential supply finder application called "Neighbourhood Supply" to help people find essentials in their neighbourhood, across cities.

— Source : [LinkedIn](#)

Finally, Esper is focusing on their product to help organisations gain complete mobility and visibility of their devices and give the best device management solution for businesses to continue work during these trying times.

— Source : [LinkedIn](#)

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