Isilon OneFS Electron Application
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Background
Isilon is a product-family of Dell EMC which sells and manages groups of server nodes, called clusters. Isilon customers have been using a cluster management tool that works for a single cluster at a time, but some customers have more than 30 clusters to manage. Our task was to design and create a new management tool that provides multi-cluster functionality. Our tool strives to provide users with enhanced efficiency and a more modern feel as they work to manage their data.

Requirements and Goals

Requirements
- Load cluster data in under ten seconds and remain responsive while loading
- Provide cross-platform desktop compatibility
- Built as an Electron application with React and Redux state management

Goals
- Provide users intuitive multi-cluster access
- Display a visually appealing user interface
- Support several existing features of the existing cluster management tool
- Design and implement new user workflows of our own

Future Work
- Modify each page to show all signed-in clusters in-line rather than one cluster at a time
- Expand SyncIQ to encompass events, alerts, and job operations
- Add an in app file explorer
- Add Mocha test scripts to every component in order to have comprehensive error checking

Glossary
Cluster - A set of connected computers that work together so that they can be viewed as a single system.
OneFS - An operating system created by Dell EMC Isilon which, in conjunction with the current web application interface, allows clients to manage their clusters.

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