

Abstract

Western Digital is a data infrastructure company specializing in data storage products such as solid-state drives and hard disk drives. They utilize Apache Subversion (SVN) for software versioning and software control. Western Digital had the need for a web application to analyze its engineers' development activities to make better decisions for resource planning. The team has created DevTracker which is a web application that pulls information from the SVN server and uses it to generate key performance indicators (KPI) and display them to the user. This is significant because SVN is a free alternative to other version control software like Bitbucket or GitHub. Those other services will charge Western Digital on a per developer basis, which can be incredibly costly for a large company like Western Digital. With DevTracker we can start to bridge the gap between SVN and other more popular version control software in terms of functionality.

Solution

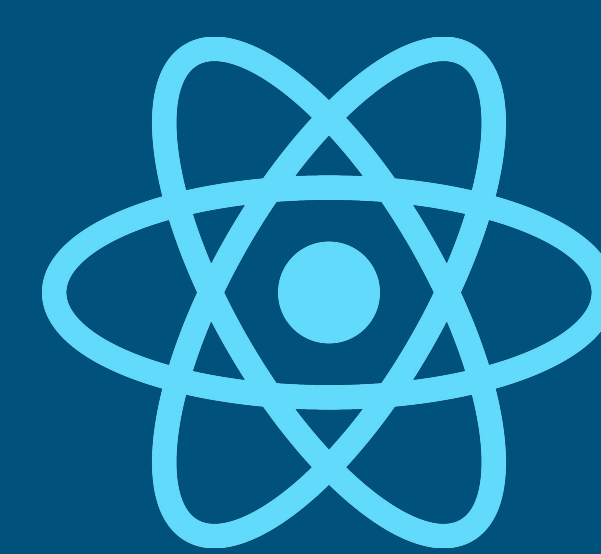
Our solution was to create a web application with an intuitive user interface that extracts data from the StatSVN server and display SVN project statuses and KPI reports that provides key insights for project leaders to use for development activities. Creating a web application as opposed to a dedicated application ensures compatibility with any operating system that uses standard browsers, which ensures that Western Digital will not have to pay for any specific operating system for all of their company computers.

Features

Features that the team implemented in the web application:

- User Login with Account sign up feature
- Key Performance Indicator (KPI) reports with their respective graphs and tables
- Data mapped from the StatSVN server
- Filter for Developers when navigating through the different KPIs
- Ability to export KPI data from table to .csv file

Technical Stack



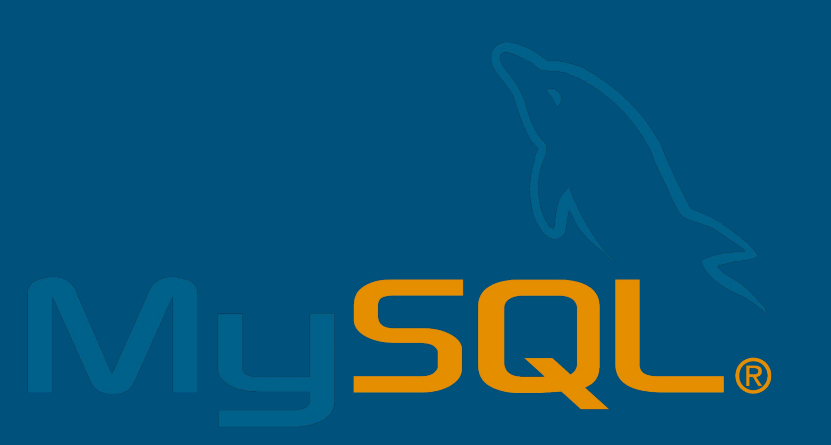
ReactJS



Java



Spring Boot



MySQL

