Abstract

An enterprise level application for employees of Total Facility Solutions and their associates. The purpose of this application is to provide an interface to view the companies’ full catalog of parts, which includes detailed part descriptions, an image, and most importantly, a unique TFS number for each part.

Architecture

Results

Summary

Our application uses a combination of a basic text field and a series of drop-down lists to compile a data string. That data string is then sent to a JAX-RS RESTful web service via a GET request. The data string is then processed by the web service to form a Boolean query, which is then given to an instance of Apache Solr. Once the results of the query have been retrieved from the MySQL database info, those results are compiled in a JSON format that is sent back to the client device to be parsed.

Impact

• Our application greatly increases the ease by which employees can view desired part data.

• It helps to streamline the process for requesting new parts that are not currently contained within the database.

• It is an important portion of the Lean Operations Excellence program at TFS.