

Replenisher Task List

System Description

Today's Replenishment manager is required to complete a variety of tasks, working with many people to insure optimal product movement through the supply chain.

The goal of this challenge is to create an application which allows experienced business users to curate a list of recurring tasks for individual contributors to execute. Individuals should also be able to create independent tasks to be added to their personalized task list. Finally, specialized tasks may also be created by external processes via service calls.

In addition to providing this app to drive task execution, we also intend to utilize metrics captured to drive future enhancements and features, including potential automation.

Instructions

We're looking for a rudimentary "full-stack" app that allows management of template tasks by experienced group, and assignment of these templates as recurring tasks to individuals. The app should allow for tracking of progress, notes and feedback.

Features of app include:

- Display sorted list of pending tasks
 - Sorted by first Status, second Rank
 - Rank should use an algorithm which weighs inputted priority against time estimated to perform the task
- User should have ability to track status for individual task
 - This status will be used to drive other features of app
- Track time in each status after "Started" until "Finished"
- Recurring tasks should be duplicated based on recurrence frequency/schedule
- Be extensible

Requirements

- Remember proper architecture principles
- Application can be written in candidates selected language
- Solution should be buildable, with running tests via command line
- Include a README file with directions for building and executing tests, as well as instructions on executing and using the application
- Document any assumptions in the README and code
- All portions of the system **may not be fully developed**. Focus on quality of delivered capabilities.

Your solution will be reviewed by engineers whom you will be working with if you join the Walmart Labs technology team. We are interested in seeing your software design, coding and testing skills.