

Title:

A company r&d team manager would like to find an open-source software to branch into a commercial version. They would like to scan GitHub for repositories that exhibit certain pre-identified metrics, for example indication of a strong community or multiple high-level contributors, to build their initial development team.

Description

The user (r&d manager) provides a URL to a GitHub repository for an open-source software project that they want to evaluate as well as the specific metrics they are looking for in a prioritized list. The software returns the quantified degree that these metrics are present in the specified repository as a “desirability” factor.

Triggers

A user (r&d manager) seeks to identify quantifiably desirable traits of an open-source software community on GitHub.

Actors

1. R&D Managers

Preconditions

1. Open-source GitHub software repository exists
2. URL to a GitHub repository is provided by a User
3. User has access to view the repository in question

Main Success Scenario (Goals)

1. Quantified existence of desirable metrics in the specified repository are displayed

Alternate Success Scenarios

N/A

Failed End Condition

1. The repository is private, or the user does not have permission to view the specified repository
2. The specified repository does is empty or has little data
3. The repository does not exist and the user is shown an error message

Extensions

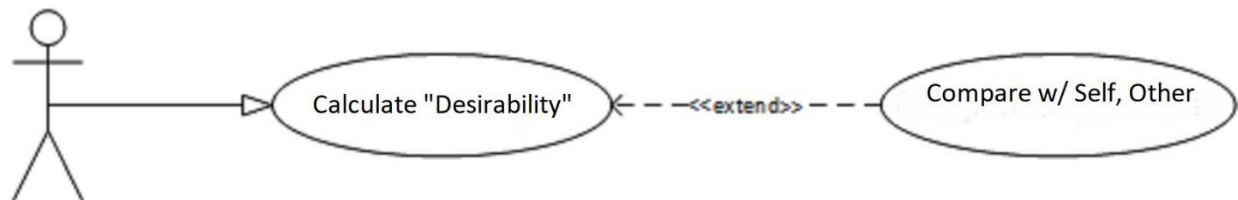
1. A basic scalar is used to indicate the “desirability” based on the specified metrics in the specified GitHub repository and this scalar can be indexed against other metrics in the same repository or against the same metrics in a different repository

Steps of Execution (Requirements)

1. The user identifies desirable metrics.
2. The user enters and submits a URL to an open-source GitHub repository
3. A “desirability” factor for the specified metrics is indexed and displayed.

A use case diagram

i



Dependent Use Cases

N/A