Title: 4-oss

Background

Open source community leaders want to understand their communities' health and sustainability to manage them strategically. Health and sustainability metrics provide community leaders with a tool to measure the effectiveness of interventions and initiatives as well as to identify areas of improvement.

Description

The user (leader) provides a URL to a GitHub repository for a community that she manages. The software returns metrics that indicate the health and sustainability of the repository.

Triggers (What prompts the use case to start?)

1. A user (leader) seeks to understand the current health and sustainability of a repository to devise actions.
2. A manager seeks to understand the current health and sustainability of their projects to see the effectivness of interventions.

Actors (Who is involved?)

1. Community Leaders

2. Managers

Preconditions (This includes things like "data loaded". Or, project is flagged as "of interest"; etc.)

1. User provides URL to a GitHub repository

Main Success Scenario

1. All metrics that can be computed from the provided repository are displayed.

Alternate Success Scenarios

1. Managers can see (via dashboard) the health and sustainability of their projects

Failed End Condition

1. The provided URL points to a non-existent GitHub repository, metrics cannot be calculated, and an error message explaining the condition is shown to user.
2. The repository does not have enough contributions to calculate any metrics

Extensions

1. Compare metrics between repositories.

Steps of Execution (Requirements)

1. The use enters and submits the URL to a GitHub repository.
2. Metrics computed from the provided repository are displayed.

Dependent Use Cases

1. N/A

A use case diagram, following the UML Standard for expressing use cases.