Software Requirements Specification

Project: Health & Sustainability Predictions of Open Source Projects

Author: Christina Roberts

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A. Introduction

Our purpose is to develop a method of assessing different open source projects' ability to remain healthy and sustainable in years to come. Though not guaranteed, we will attempt to predict which projects have the operational and safety systems that will allow them to remain sustainable in the future to come.

B. Software Overview

Software will be able to determine a statistical output of each project's sustainability output based on evaluating several key components of the project. Evaluations will be based off of gathered data such as, but not limited to, how often the project's code is tested before and after deployment, how often it is updated, how long and how many issues go unresolved, the response to reviews of the project, the number of followers the project creates, and the number of laborers required for updating and maintaining the project.

The software will apply numerical measurements of this data and evaluate it based on those measurements.

C. System Use

Users of the software include:

- Administrators
- Project Creators
- Project Investors

D. System Requirements

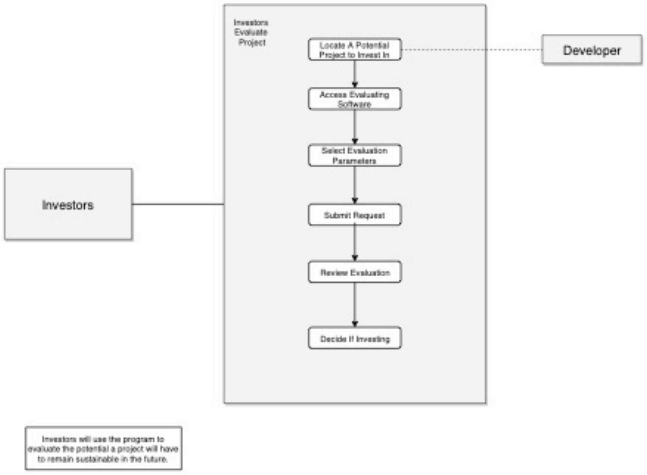
Functional Requirements

- Web-browser
- Hi-Speed Internet

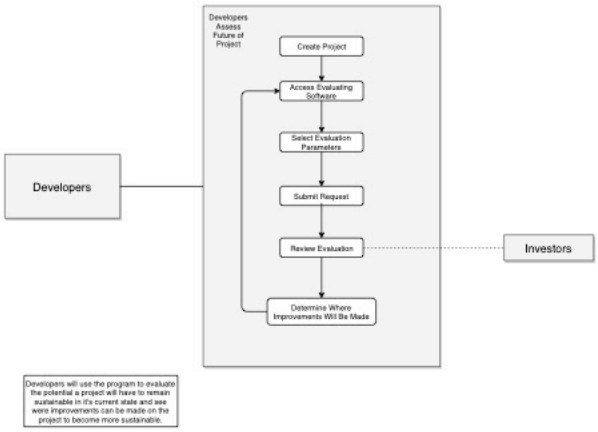
Non-Functional Requirements

- Project
- Servers

Use Case 1


Investors Evaluate Project
Locate A Potential Project to Invest In
Developer
Access Evaluating Software
Select Evaluation Parameters
Investors
Submit Request
Review Evaluation
Decide If Investing
Investors will use the program to evaluate the potential a project will have to remain sustainable in the future.

Use Case 2



E. Design Constraints
   Accuracy of Computations
   Inability to Quantify Certain Metrics

F. Purchased Components
   Web Space
   Cloud Storage
   Server/Host
   Domain

G. Interfaces
   Command Line for Data Collection
   Graphical Interface for Viewing Statistics