

Phase I

Project Scoping

Deliverable 1

1.1 GitHub - An Overview

GitHub is a collaborative site for sharing and working on software projects based around the *Git Version Control System*. It is beneficial when used individually or as a group as it allows for members to use a web-based graphical interface to interact with the command line tool git.

GitHub's advantages are its ability to provide easy interaction between members working on the same project, and its ease of use compared to working from the command line. Github allows for easy management of wikis, bug tracking and feature requests.

GitHub allows for the sharing of small code snippets (Gists) which act like normal repositories, so that they can be changed by the author (managed by Git version control on the website) and forked (making a separate copy of the project) by other users. Users are able to make changes to their projects locally and then push their changes to GitHub, but also can make changes directly on GitHub.

Deliverable 2

2.1 Vision Statements

2.2 General Goals

2.3 Group/Team Goals

2.4 Individual Team Member Goals

Deliverable 3

3.1 Problem Statements

1. GitHub doesn't have more advanced searching of repositories to find more readily contributable open source projects.
2. GitHub doesn't have a visual way to view a whole project (e.g. how all the classes/files interact, UML diagrams generated from code).
3. GitHub doesn't link documentation from a repository's wiki with the relevant functions/lines in the project's code.
4. GitHub doesn't allow functions/blocks of code to be collapsed for easy targeted viewing online.

3.2 Inference for Problem Statements