

Josh Westmoreland

monkeywrench tasks & use cases

monkeywrench version 1.0

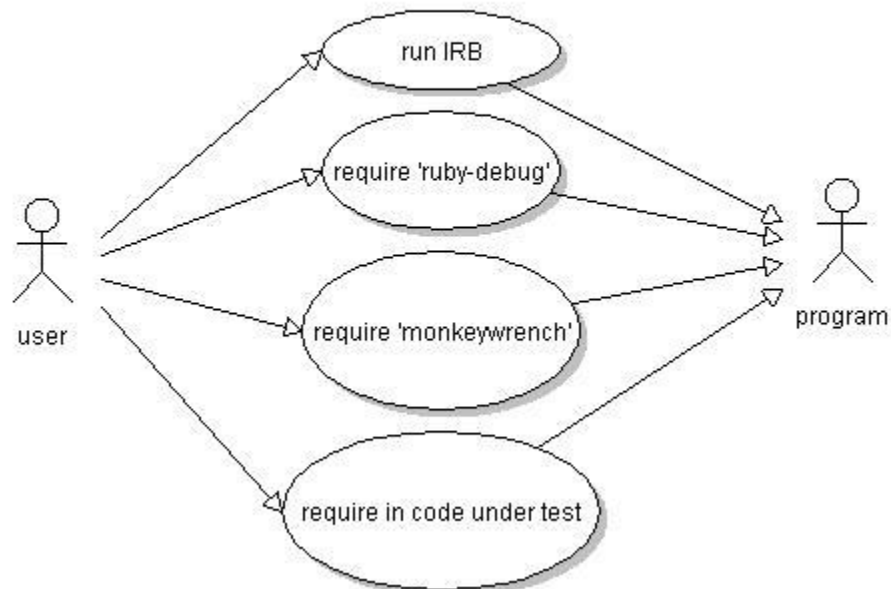
(last modified) 05/08/2009

Normal Use

There are several tasks that can be accomplished by using the monkeywrench program. The normal use of this program, in a Windows environment, is as follows:

1. Open up a command prompt
2. Run IRB
3. Require in 'ruby-debug'
4. Require in 'monkeywrench'
5. Require in the code under test
6. Use 'ruby-debug' and 'monkeywrench' as needed to debug the code under test

note: a command prompt must first be opened in order for any of this to take place



Tasks

The following tasks entail the primary functional uses of the monkeywrench program:

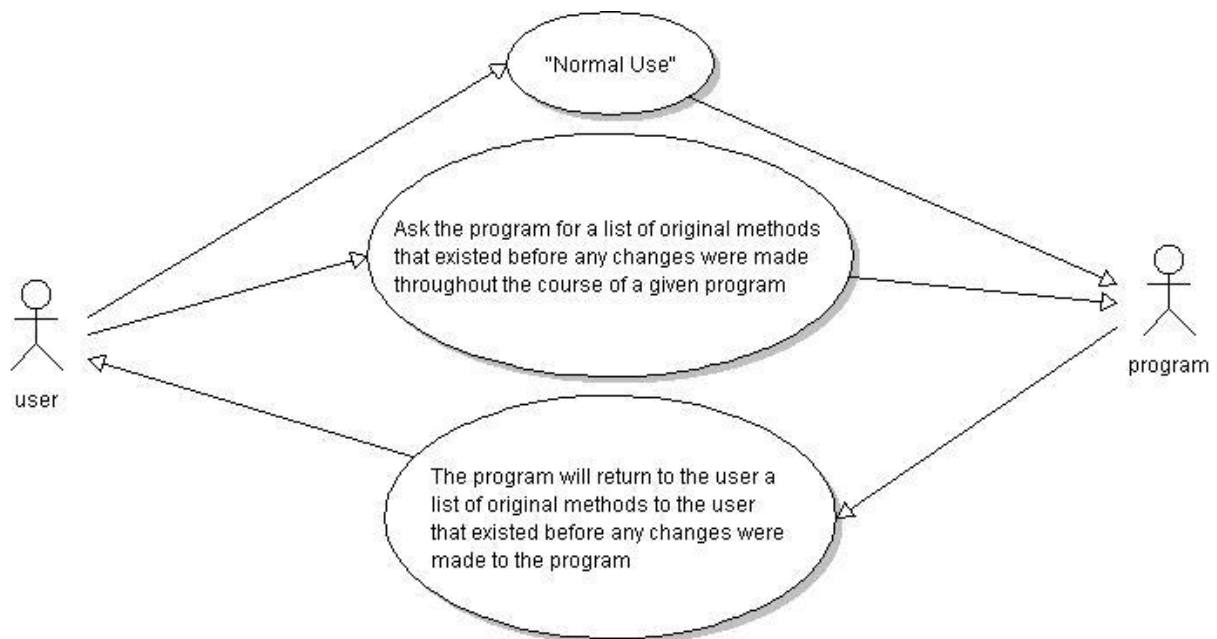
1. Get the original methods of a class before any changes have been made
2. Get the methods that have been changed or added throughout the course of a given program
3. Get the number of changes made to a given object throughout the course of a given program
4. Get all changes made to a given set of code throughout the course of a given program
5. Output a file, in .csv format, where all changes to a program are enumerated in detail

Uses cases for each of these tasks, including a use case diagram for each, are in the next section.

Use Cases

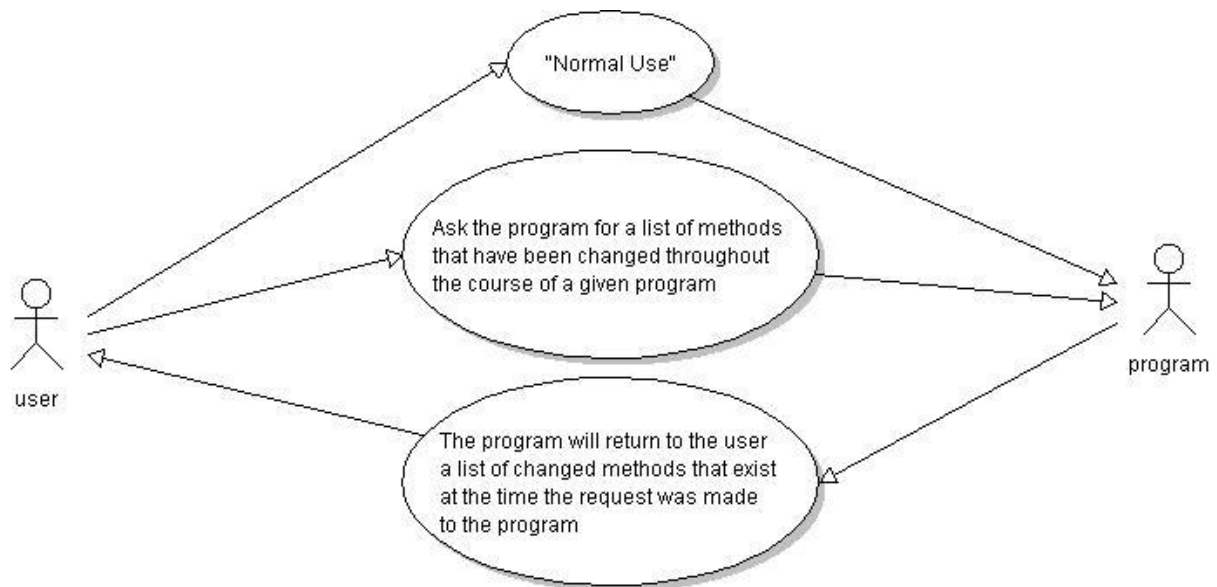
Use case #1: “Get the original methods of a class before any changes have been made”.

1. “Normal Use” scenario, see above for more details
2. Ask the program for a list of original methods that existed before any changes were made throughout the course of a given program
3. The program will return to the user a list of original methods to the user that existed before any changes were made to the program



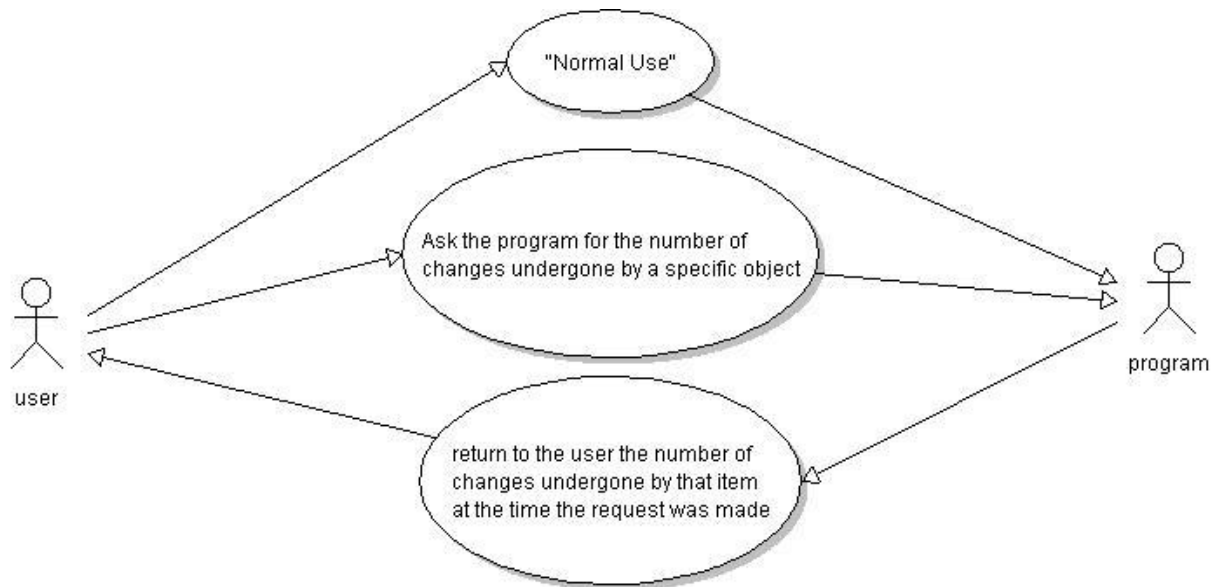
Use case #2: “Get the methods that have been changed or added throughout the course of a given program”

1. “Normal Use” scenario, see above for more details
2. Ask the program for a list of methods that have been changed throughout the course of a given program
3. The program will return to the user a list of changed methods to the user that existed at the time the request was made to the program



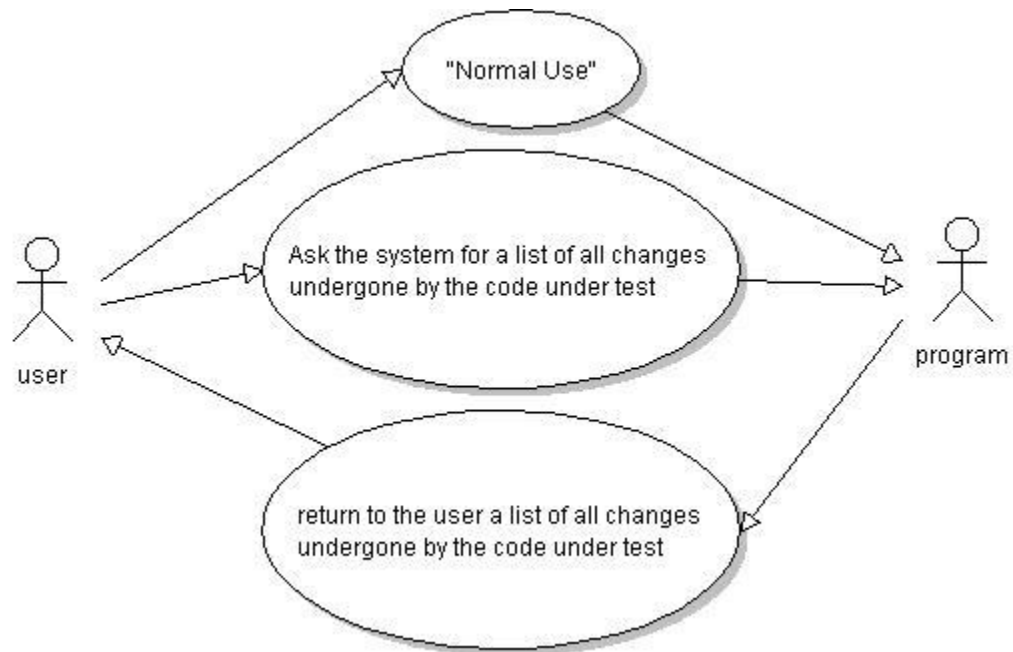
Use case #3: “Get the number of changes made to a given object throughout the course of a given program”

1. “Normal Use” scenario, see above for more details
2. Ask the program for the number of changes undergone by a specific object
3. The program then returns to the user the number of changes undergone by that item at the time the request was made



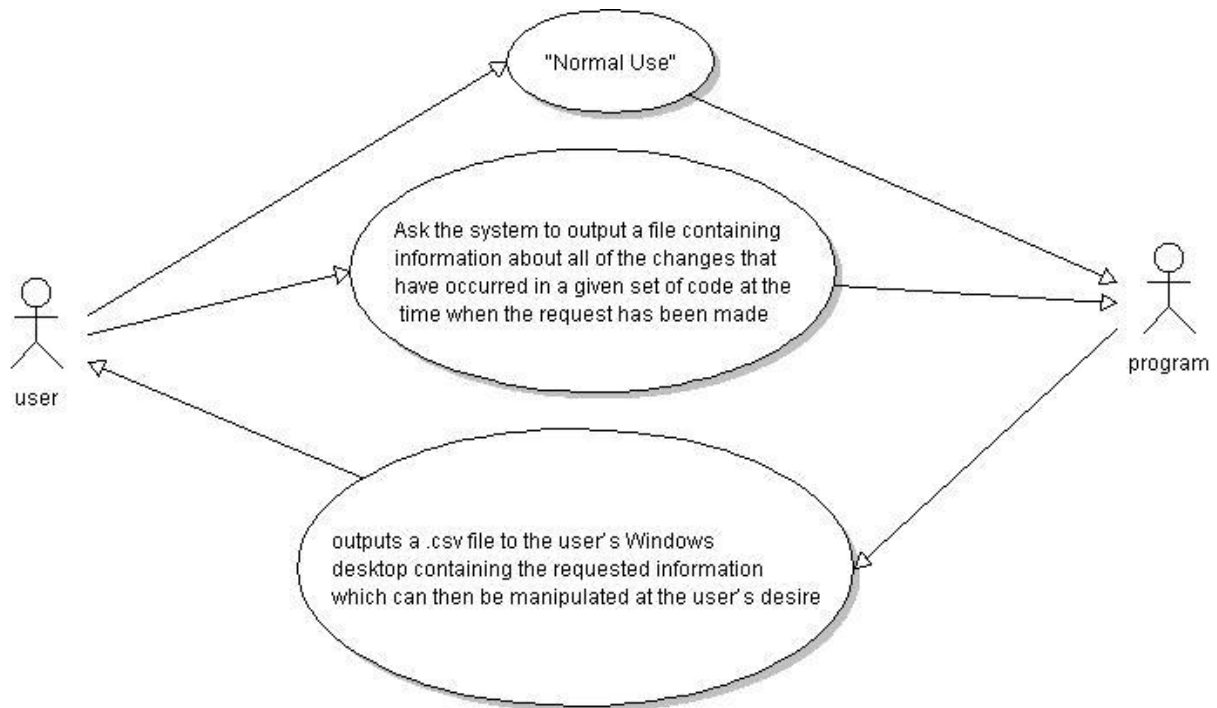
Use case #4: "Get all changes made to a given set of code throughout the course of a given program"

1. "Normal Use" scenario, see above for more details
2. Ask the system for a list of all changes undergone by the code under test
3. The system then returns to the user a list of all changes undergone by the code under test



Use case #5: "Output a file, in .csv format, where all changes to a program are enumerated in detail"

1. "Normal Use" scenario, see above for more details
2. Ask the system to output a file containing information about all of the changes that have occurred in a given set of code at the time when the request has been made
3. The system outputs a .csv file to the user's Windows desktop containing the requested information which can then be manipulated at the user's desire



Closing Comments

The preceding document has enumerated a number of tasks and use cases thereof of for normal use of the “monkeywrench” program. There are probably several other things that can be done with this program, but those would fall outside the normal use scenario and would thus fall outside the scope of this document.