Functional Requirements

Question	Answer
What is the primary task the project needs to perform? (High priority?)	Implement a libradу for visualization of DCR Graphs, that will be connected to other tools as a plugin. It should be used via a terminal
Are there any secondary tasks the project should perform? (i.e. information about an event on mouse hover)	The end goal is a tool as the one we used on ACS. Should be fairly fast, currently only the visualization is sufficient. Should be working at instant. If there is time, GUI app for editing in sense of correcting activities to make the layout fit more
In case we have secondary tasks. What are the priorities of each secondary task? (Medium-Low)	Low
Which exact elements of the DCR Graph are expected to be visualized? (Should our visualization be complete like the theory and DCRGraph simulation site, or are there certain elements that are not required?)	Nesting is not required to be implemented, only plain activities and their relations are sufficient

Non-Functional Requirements

Question	Answer	Type	
What size are the events and relations expected to have in a single DCR Graph?	Vector graphics for easy scaling would be preferred. Use-case is in scientific papers so the activities should have enough space inside of them for 50 readable characters.	Usability	
What kind of input should our program expect?	One of the following: 1) language based: (preferred) - would require creating parser 2) csv format with defined markings and events	Interface	
Where will we get that input from?	1st version is only used via console - input file given as an argument		
What kind of output would you require our program to produce? (What type i.e. PNG, PDF?)	Would be good to set output format as option, preferred is scalable pdf, with no margins, smallest square possible		
Will you be the only user of our system?	Yes		
Are different user categories required? (Admins, Superusers, Users?)	Different user categories are not required. The users will be technical experts familiar with this.		
What kind of interface is the user expected to use? (Interactive, Command-Line?)	Command-line, interactive is of lower priority		
Should the system and user be protected from making errors? (Priority?)	It would be nice if it doesn’t crash. If wrong input file, it should give an error message. Don’t forsee many other errors. If grammatical error, just reject. And give an error message.	Robustness	Reliability
If not, what kind of error handling is expected? How should the system respond to input errors and extreme conditions? (Ignore errors & move one, Report errors & stop)	Preferred if it does not crash if wrong format, would be nice to have an output message or warning. Reject if wrong grammar or wrong input format. If small mistake on the input - give a warning to fix it		
Should access to the data and the system be controlled? (Password controlled?)	No passwords or other means of security are needed	Safety	
What should be the maximum number of graphs that can be sent as input? If there is no limit, what is the number of graphs for which we would expect top-performance	Just one at a time.	Performance	
What should be the maximum number of events in a graph? If there is no limit, what is the number of events in a graph for which we would expect top-performance	In principle, infinite. In reality, around 100 activities.		
Are there any performance characteristics we should take into consideration? (Process time of a normal-sized graph)	Immediate response, especially for the 2nd version that supports dragging, in the 1st version performance is not that important		

What kind of documentation is required?	It would be good if its clear on what and how is called, correct input formats, something like a user guide. Would be nice to know whats the internal working. Enough to provide javadoc for programmers. Docs as appendix or separately as source code	**Supportability**
On what devices and operating systems is the program expected to run?	All of them, especially Mac and Windows. Not mobile.	**Implementation**
Are there any constraints on the machines that the program is supposed to be run in? (RAM constraints)	Anything that’s like a normal desktop.	
Is the program allowed to be dependent on any third-party libraries?	Yes.	
Under what license should the product be released?	Would very much like it if its LGPL3.0. If you make changes you have to make it open source as well	**Legal**

Pseudo Requirements - Constraints

Question	Answer
Are we expected to use a certain programming language for the program?	Not really, if its in java, would be easy to plug in most. Java would be Ideal, but not necessary