

Requirement ID	Requirement short description	Status code (D: done, P: Partially completed, N: Not started, A: Abandoned)	Comments (required for any status other than D)	
1	UML(Class,Use Case, ...etc.)	P	There exists two Packages specially designed for producing UML diagrams, Package{Meta-UML} and Package{pgf-uml}. {meta-uml} is implemented entirely in lower level Tex.It is very basic,so graphics look plain and is not as feature rich compared to pgf. {pgf-uml} can produce very beautiful UML diagram graphics, if you utilize all its features, which includes all of Package{tikz}. Its syntax is based on tikz, and has great code readability. A quick tutorial will be mentioned in demo. Although you should never reinvent the wheel, a class diagram function is still being developed. This new function differs from previously mentioned packages by utilizing an automatic layout of nodes that minimizes crossing paths. It is also implemented using components of the {tikz} package, an overlayer of pgf.	
1.1	Object Diagrams	P	Basic Layout is completed. Was having trouble using a forloop for the diagram creation. Will continue to work on it. Once the problem is figured out the rest will fall in place.	
1.2	Linked Lists	P	Need to add/fix: rotation feature(vertical/Horizontal), simple use-case forms, fix scaling references, as well as, detail configurability(size,color, text,...etc.).	
1.3	HashMap	P	need to fix scaling references, as well as, detail configurability(size,color, text,...etc.)	
1.4	Stacks, queues	P	Need to do/fix: rotation feature(vertical/Horizontal), simple use-case forms, as well as, detail configurability(size,color, text,...etc.).	
2	Improvements to existing open source textbooks			
2.1	Diagrams for Python Books:	A	already been done, by other packages.	
2.2	Imbed color text/figures	D	Already existed in other packages.	
2.3	Imbed links.	D	Same as 2.2.	
3	Product Features			
3.1	Scalabilty	D	Based on thorough research, there exists a package that efficiently scales any graphics. Package {adjustbox} utilizes an environment. It allows you to easily scale width/height to any dimension,whether numeric, or relation to pdf dimensions, as well as, retain aspect-ratio, if the user wishes. It also allows you to justify graphics as you desire.Overall, it is a very simple user-friendly package. It is used to solve scalability issues for our package.	
3.2	Color Interchangability for graphics	P	A feature already defined in Tikz package. Will embed into our detail configurability of our newly developed diagrams	
3.3	Links	D		