Deliverable	Milestone Due Date	Michail	Juan	Alec	Grant	Robbie	Devlyn
Intial Planning Phase	March 10						
Research client side frameworks	March 8	I	I	R	R	A/I	I
Research server side frameworks	March 8	I	I	R	R	I	R
Create Repo and establish CI tools	March 10	A	A	R	C	C	C
Create UML blueprints for proposed System	March 10	R	R	C	I	R	A/C
Project Setup Phase	March 11						
Create client side framework*	March 11	A	I	C	R	C	I
Create server side framework*	March 11	I	I	C	R	A/I	I
Brainstorm Filters*, **	March 11	R/A	R	R	R	R	R
Create storyboards** on paper	March 11	C	R	A	I	R	R
Implementation Phase	March 18						
Implement Filters**	March 19	R/A	R	R	C	A	R
Implement UI according to storyboards	March 18	I	C	I	A	C	R/A
Testing Phase	March 22						
Test implemented UI	March 21	R	R	I	R	C	R/A
Test implemented Filters**	March 22	R	R	A	R	R	C
Writing Report Phase	April 5						
Report on success of implementation	March 27	C	A/C	R	C	R	R
Description of tools used	March 28	R/A	R	I	A	C	I
Explanation of decisions made	April 1	C	C	R	C	A/I	R
Recommendation for future work	April 3	R	R	I	A	C	I
* = Has description							
** = Has definition of term							

Descriptions		Definitions
Client side framework Using React (via \`create-react-app\`), and optionally a starter kit such as Reactstrap, setup a basic client architecture. Anticipated components so far: 1. Ace Editor: A web text editor that offers syntax highlighting for Python and other languages. 2. Support for drag and drop file upload for users to provide their source code into the application. Support zip files that will be unzipped automatically. This will use JSZip as a module, since Grant has prior experience with it. 3. A placeholder area for text about warnings or recommendations - this does not need real data for the first iteration since the server framework will provide it. 4. Ability to re-zip the source code for download should the user have made any modifications in response to the warnings and recommendations. This also uses JSZip		**Filter** A filter is a function which checks a file, set of files, or directory for a condition to be true. This could be as simple as seeing if any files in the project are empty and reporting back. More complicated examples are: 1. Compiling the Python codebase and seeing if any modules are unused 2. Seeing if different files are expecting different versions of Python 3. Analyzing the codebase for any security vulnerabilities currently and released by the Python community
Server side framework Using Node.js and Express, create a server that provides REST endpoints for: 1. Deploying the client side code (see **Client side framework** task) to a requesting browser 2. Passing files into a server workspace where filters will be run 3. Running a file through a filter, multiple filters, or all filters and then reporting any errors or recommendations to the client 4. When the user closes the session, all uploaded files are cleared. This happens automatically during session expiration (due to client inactivity) as well		**Storyboard** A storyboard is a layout of the user interface for the application. It is a rough idea of how the flow of the application will be.
Create Repo/establish CI tools Using Gitlab and its builtin CI tools, optionally using external third party CI tools if the need arises		
Brainstorm Filters The proposed project runs code through a series of filter to reduce the amount of bad coding practices and minimize the negative effects of software evolution. A list of issues, design items, and other tools needs to be brainstormed that would be turned into filters		

Rules:		
	Someone who is responsible for a task, should be informed about the task that it is dependant on	
	Somoene who is responsible for a task, shouldnt be the only one accountable for the task completion	
	Everyone should have at least two R tasks, and two C tasks	
	Each task should have someone who is R, A, C and I unless...	
	Every Task has at least two R	
	Order of priority: R, A, C, I	
Legend	Description	
R	**Responsible** for completing task	The task is going to be completed by the person who is responsible for it
A	**Accountable** for the completion of the task	This person should make sure that the task is completed.
C	**Consult** on what needs to be done for the task	Two way communication; This individual would have the knowledge about the task but might be working on some other task
I	Those that need to be **Informed** by the task progress	One way communication; This person should know about the progress on the task
OM	One machine	
CC	Compute Canda	