Team: PathLab Date:04/17/2019

Project Title: Graphical User Interface for massively multiplexed pathogen detection



Turan
Present
On-time



Alex
Present
On-time



Chance
Present
On-time



Austin
Present
On-time

Recent Meetings:

Client Meeting: Friday 04/12 **Upcoming Meetings:** Client Meeting: Friday 04/19

TASKS COMPLETED since last meeting:

Task Title: Final Results Summary Visualization	Task Initiation: 3/20	Orig. Due Date: 4/5	Status: Complete
Who (%). Turan			

Description: Provide a summary table of features for each selected primer. Provide the primers in fasta format that can be copied or saved locally. Ideally provide some additional graphics 1. For each target sequence, illustrate the location of the primers and the target sequences and provide the expected size and sequence of the amplicon, allow the amplicon sequences to be saved to a file. 2. Provide average, min, and max melting temperature for the primers and offer suggested annealing temperature for PCR. 3. Show alignments of top X number of strong hybridizations. 4. Color code extreme values in summary table.

Task Title:	Task Initiation:	Orig. Due Date: 4/5	Status: Complete		
Module 1	3/25				
Visualization (Box					
plot					
Summarization)					
Who (%): Turan					
Description: Summarize sequence information based on parameters like GC and TM.					
Expected Outcome: Interactive and informational visualization which allows the user to understand the					
sequences so they can remove or modify parameters in module 1. This should also allow					

Task Title: Module 2 Visualization	Task Initiation: 3/20	Orig. Due Date: 4/5	Status: Complete (basic)		
Who (%): Turan					
Description: Replace the current violin plot chart with box plot chart.					

Task Title: Module 1 Refinement	Task Initiation: 3/20	Orig. Due Date: 4/3 - 4/10	Status: Complete			
1 Remoment	3/ =0	4/10				
Who (%): Chance	Who (%): Chance					
Description: Start the refinement process by fixing bugs, visual issues and any functional problems in						
the software.						
Expected Outcome:	Expected Outcome: No visual glitches and simple bugs should be present in module 1.					

Task Title:	Task Initiation:	Due Date: 4/15	Status: Complete		
Concurrent	3/20				
Execution					
Who (%): Chance					
Description: Add PID-based argument and state storage, so that multiple versions of Primacy GUI can					
run without interfering with one another					
Expected Outcome: Multiple versions of Primacy GUI can run in parallel.					

Task Title: Pipeline Integration: Module 1	Task Initiation: 3/20	Due Date: 4/15	Status: Complete		
Who (%): Chance					
Description: Fully integrate the front end of Module 1 of the GUI into the back end, adding event					
listeners and senders for all expected IPC messages.					
Expected Outcome: Primacy CLI may be executed utilizing arguments gathered from GUI Module 1,					
and a correct response can be received.					

Task Title: Viz	Task Initiation:	Due Date: 4/15	Status: Complete		
Integration: Module	3/20				
1					
Who (%): Chance					
Description: Integrate the launching of Viz's into Module 1 of the GUI.					
Expected Outcome: A new button is to be added adjacent to the 'NEXT MODULE' button, which					
executes Primacy CLI	and launches a secondar	ry window, which displays Viz 1			

Task Title: Save States	Task Initiation: 3/20	Due Date: 4/15	Status: Complete		
Who (%): Chance					
Description: Add the ability to save the current progress through the pipeline to an external file.					
Expected Outcome: User can save the current state of a Primacy GUI run					

Task Title: Module 3 Refinement	Task Initiation: 3/20	Orig. Due Date: 4/5	Status: Complete	
Who (%): Austin & Alex				
Description: Start the refinement process by fixing bugs, visual issues and any functional problems in				
the software.				
Expected Outcome: No visual glitches and simple bugs should be present in module 3.				

Task Title: Poster Rough Draft	Task Initiation: 4/12	Due Date: 4/17	Status: Complete		
Who (%): Alex					
Description: Create a poster style and fill out basic information for review by Isaac before refinement and submission.					
Expected Outcome: Unrefined, but mostly completed, version of poster available by mentor meeting.					

This week's Tasks: Work plan for coming week

Task Title: Pipeline Integration: Module 2	Task Initiation: 4/08	Orig. Due Date: 4/15	Status: In Progress (50%)		
Who (%): Turan, Alex					
Description: Fully implement all needed IPC message handlers for Module 2, including bootstrapping					
the page based off of any previous arguments inputted for any previous visits to the module.					

Task Title:	Task Initiation:	Orig. Due Date: 4/14	Status: In Progress (0%)		
Pipeline Integration:	4/11				
Module 3					
Who (%): Austin, Chance					
Description: Fully implement all needed IPC message handlers for Module 3, including bootstrapping					
the page based off of any previous arguments inputted for any previous visits to the module.					

Task Title: Viz Integration: Module 2	Task Initiation: 4/11	Orig. Due Date: 4/14	Status: In Progress (0%)			
Who (%): Turan, Alex						
Description: Integrate the launching of Viz's into Module 2 of the GUI.						

Task Title:	Task Initiation:	Orig. Due Date: 4/20	Status: In Progress (20%)			
Research Conda	4/11					
Deployment						
Who (%): Chance						
Description: Research the feasibility of deploying releases of Primacy GUI to Conda. This would allow						
users to easily install the final product, as Primacy CLI and all other dependencies could simply be						
automatically installed.						

Task Title: Optimize Viz2 count update (picking bulk primers)	Task Initiation: 4/11	Orig. Due Date: 4/20	Status: In Progress (40%)		
Who (%): Turan					
Description: Currently picking the top x % of primers take really long to update the count. Optimize the					

Description: Currently picking the top x % of primers take really long to update the count. Optimize the performance for this process.