Team: PathLab Date:04/10/2019

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 04/05 **Upcoming Meetings:** Client Meeting: Friday 04/12

TASKS COMPLETED since last meeting:

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 para	meters in module 1. This shoul	d also allow

Task Title: Module 2 VisualizationTask Initiation: 3/20Or	Due Date: 4/5 Status: Complete (basic)
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Who (%): Turan

Description: Ideal: By default, the top 10% of primers from each target and each flank will be moved forward to be considered in the primer set optimization. However, the user should be able to modify this value for each primer group. There should be some indication of how many primers will be included from each set and it should update anytime the percent changes. Additionally, the user should be able to open up a table for each primer group that shows each of the primers in order of rank (best to worst) and summarizes their features. Within this table, the primers that are in the currently selected top X% should have marked check boxes indicating that they are to be included. The user should then be able to remove any of the checked boxes and check any additional primers they want to be included.

Task Title: Final Results Summary Visualization	Task Initiation: 3/20	Orig. Due Date: 4/5	Status: Complete (basic)
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: Module 1 Refinement	Task Initiation: 3/20	Orig. Due Date: 4/3 - 4/10	Status: Complete
Who (%): Chance			
Description: Start the refinement process by fixing bugs, visual issues and any functional problems in the software.			
Expected Outcome:	No visual glitches and s	simple bugs should be present i	n module 1.

Task Title: Module 2 Refinement	Task Initiation: 3/20	Orig. Due Date: 4/3 - 4/10	Status: Complete	
Who (%): Turan				
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 2				

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 s	simple bugs should be present i	n module 3.

Task Title:	Task Initiation:	Orig. Due Date: 4/5	Status: Complete	
Software Test Plan	3/26			
Who (%): Everyone				
Description: A test plan outlines activities that are aimed at ensuring that our project's implementation				
exhibits the necessary functional and non-functional characteristics. In this document, we are asked to				
describe how we intend to ensure that the expectations presented in the requirements and design				
specification documents are met, via a well-planned software testing regime.				
Expected Outcomes	Delivered to mentor at	the next meeting/end of the w	eek	

Task Title: Software Test Plan:	Task Initiation: 3/26	Orig. Due Date: 4/5	Status: In Progress (75%)
Integration Testing			
Who (%): Chance			
Description: Write an overview of the plen to create an integration testing suite for the final product,			
justifying and identify	ring all module relations	hips.	

Expected Outcome: Delivered to mentor at the next meeting/end of the week

Task Title: Design Review 3	Task Initiation: 4/5	Orig. Due Date: 4/11	Status: In Progress (75%)	
Who (%): Everyone				
Description:				
Expected Outcome:				

This week's Tasks: Work plan for coming week

Task Title: Final	Task Initiation:	Orig. Due Date: 4/5	Status: In Progress	
Results Summary	3/20			
Visualization				
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	e location of the primers	and the target sequences and p	provide the expected size and	

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: Unit	Task Initiation:	Orig. Due Date: 4/15	Status: In Progress
Testing	4/10		
Visualization Data			
Who (%): Turan			
Description: Create unit test to ensure data created for visualizations are correct and error free.			

Task Title: Pipeline Integration	Task Initiation: 4/08	Orig. Due Date: 4/15	Status: In Progress	
Who (%): Chance				
Description: Start the integration process with the pipeline (module 1 & 2 available)				