CS 3704 Project Milestone 4

Group Name: Sponsored by PaxHistoria

Group Members: Eli Bullock-Papa, Connor Brodish, Kishitij Kaushal, and Ryan Zhang

Process Deliverable III

The submission for this deliverable will depend on the specific SE process model your team plans to use to complete the group project (as described in your project proposal).

Scrum: submit notes (include each teammate) from at least weekly scrum meetings.

Meeting 9 (Dec 2 – 6)

1. Member: Connor Brodish
    - What I did? Mental refresh during Thanksgiving break. Created the document and informed members of next milestone due date
    - What I need to do next? Ask how to further help the group with more technical project elements
    - What is blocking me? End-of-semester projects, homework, preparation for finals
2. Member: Kishitij Kaushal
    - What I did? I was sick so I took a break.
    - What I need to do next? Help with adding more user friendly explanations to the website.
    - What is blocking me? Projects, Assignments, and preparation for finals.
3. Member: Ryan Zhang:
    - What I did? Fixed the icon on the website
    - What I need to do next? Make a better website description for google results
    - What is blocking me? Knowledge on how the website metadata works.
4. Member: Eli Bullock-Papa:
    - What I did? I created the 3d visualizations, and the 2d alignment, and deployed our demo to the web.
    - What I need to do next? Make sure that the website has better explanations about what the different tools do.

- What is blocking me? Nothing right now.

Black Box Test Plan

Note: You can visit our website demo here: https://comp-bio-helpers.vercel.app/

A test plan is a detailed document that outlines test cases for a given software system. Black box test plans are documents that use plain language for stakeholders to follow to verify the program. For this milestone, you must create a black box test plan with at least **ten** unique black box test cases with the required test case information (see a template in the Lecture Slides) (Testing and Maintenance.pdf). Your test cases should also relate to the acceptance criteria of your project requirements (PM2) and design constraints (PM3).

- If you are not implementing your project, you may leave the Actual Results column blank (but it must be present in the plan to receive full credit).
- If you are implementing your project, you may include the actual results if the test case is implemented or still keep the column blank.

Test ID	Description	Expected Results	Actual Results
Test 1	Preconditions: User is on the home page. Steps: Select a specific algorithm.	User is taken to the algorithm's page.	User is taken to the algorithm's page.
Test 2	Preconditions: User is not on the home page. Steps: Click on the Comp Bio Helpers icon.	User is taken to the home page.	User is taken to the home page.
Test 3	Precondition: User is on the website. Steps: Click on the light/dark mode icon.	The page switches to dark/light mode.	The page switches to dark/light mode.
Test 4	Precondition: User is on the website. Steps: Click on the GitHub icon.	User is taken to the GitHub repository.	User is taken to the GitHub repository.
Test 5	Precondition: User is on the blosum page. Steps: Type a block in the given box and press add block.	The block is added and displayed on the screen.	The block is added and displayed on the screen.

Test 6	Precondition: User has added a block. Steps: Press on calculate Q value.	The Q value and P value are calculated and displayed on the screen.	The Q value and P value are calculated and displayed on the screen.
Test 7	Precondition: User is on the 2d Sequence Alignment page. Steps: User enters the sequences.	The alignment is displayed.	The alignment is displayed
Test 8	Precondition: User is on the 2d Sequence Alignment page. Steps: Change the gap scores.	The alignment changes according to the gap score.	The alignment changes according to the gap score.
Test 9	Precondition: User is on the 3d Global Alignment page. Steps: User enters the sequences and gap/mismatch penalty.	The 3D alignment score is calculated and the resulting alignment is displayed in 3d and in a table	The 3D alignment score is calculated and the resulting alignment is displayed in 3d and in a table
Test 10	Precondition: User is on the 3d Sequence Alignment page and has calculated their alignment Steps: The user clicks calculate alignment	The user can see the 3D alignment and pan and zoom in on parts of it	The user can see the 3D alignment and pan and zoom in on parts of it