COMP4339 – Software Analysis & Design

Bioinformatics Algorithms – Online Tool Stakeholders Questionnaire

Version 1.0

Revision History

Date	Version	Description	Author
10/13/2016	1.0	Tool that will provide bioinformatics algorithms for processing of biological data and some other techniques as mapping of the genes and similar.	Medina Colic

Instructions on Answering Questionnaire

How to fill in the questionnaire: In section I, review the listed system features and rate their priority according to your needs. Each feature consists of four different levels of priority from which you may choose: Critical, Important, Useful, and Not Important. In section II, answer all the questions as freely and thoroughly as possible.

Remark: This questionnaire is NOT to assess you, your work or your knowledge. The questionnaire aims only to assess the required needs you have for your system.

General Information: Fill in the following table with the optional information.

Name	Medina Colic
Email	mcolic@na.edu
Date	10/13/2016

Section I

Review the following system features and rate them as (C)ritical, (I)mportant, (U)seful and (N)ot Important.

Features	C	I	U	N
User Registration and Account Creation			U	
System Control For Data Format	C			
System Outputs File With a Processed Data		I		
User' Activities History Storage		I	U	
Bioinformatics Algorithms	C			
Hardware's Ability to Process Big Data	C			
Easy access to the features and available tasks		I		

Section II

Please review the following questions and answer them as openly as you can.

A. What kind of control do you expect for the system?
I expect control to take care of the input data formats that users will be uploading for further processing. If the data is not in the format, which is familiar to the system, control system will complain and give an error message to user, asking to submit its data in one of the formats system recognizes.

B. What physical features do you seek from the hardware?
Multi cores for more feasible and faster program executions. Enough power to withstand loads of variety of biological data formats. Preferable graphical processing units, for altering memory and quicker executions.

C. What are the most important features the system should have?
System should be easy to understand because users are not expected to be experts in the field. The system should understandable to all levels of users in that field. It should provide brief and neat explanations and instructions on how to use it, which data formats it accepts, what are the possible outputs, and other necessary information users would need.

D. What are your major concerns with the system?

The major concern would be system crashing down if user uploads or tries to upload big data, which he/she wants to analyze or process. However, if the previously mentioned control system would be set up and running then the possibility that system would face this concern would be decreased.

E. What are the things that need to be taken care of by the software?

Since user requested to have access to their previous actions every time when they log in, system has to provide history of their activities, every time a user with previously created account logs in. Software has to take care of invalid data as well. If the data provided by the user is invalid, or in a wrong format, software should recognize it and return warning or error message to the user.

F. The number of users of the software?

Software will be open source and will be user by many users. At the same time, besides users, developers and managers would be using the system for keeping track and data from the records and every user's usage.

G. The updating policies and rules.

System management and Executive Stakeholder are the ones promoting and allowing updates and changes. At the same time they are the ones who develop, propose and approve the rules. Updating policies and rules are related to users' usage of the system, system execution and its dependencies.

H. Is it necessary for a user to create an account?

It is not necessary to create an account, but if a user wants to have a comprehensive record of its previous activities, then he/she should create one.

I. Can user upload any kind of data format prior using the tool?
No, is user uploads data in format that is different that the allowed ones, the system will complain and give an error to user.

J. Do users have to pay in order to use the service of the tool?
System management and Executive Stakeholder will decide on it. In case the users want to use the tool for longer term, they would need to pay the monthly fee. For one-time users no fee is required.

K. How many features the tool will provide?
System management and Executive Stakeholder will decide on it. Once their decision is clean they will introduce it to coders, web develops and designers.

L. What will be format of the output
Format of the out will depend on the input format and algorithm that is run on that data.

M. Is it necessary to have any biology experts when developing the system?
Yes it is necessary to have a biology expert on the development team, because the computations provided by the system require biology understanding.

N. How long will it take to build the system?
Without any delays, it is predicted to take five week. In case the delays occurs, optimizations of time frame will be discussed with the System management.

O. Will the system be built from scratch or it will be based on already existing pillars?
System's idea is developed earlier, however it has never been realized. So it can be stated the system will be built from scratch.