

Welcome Screen

Alaska: Complete, Automated RNA-seq Analysis

New Project

Load Project

ID: APo7y6vr Creating set_proj request Connecting to server on port 8888 Connected successfully Waiting for response APo7y6vr: setting project data APo7y6vr: validating data APo7y6vr: project data successfully set (This is when verification succeeds.) (I'll send an update for when verification fails.) 15 16 Notes for ctrl ids and ctrl ftrs: - ctrl_ids is saved as a list of all Sample IDs that have the This is my control checkbox checked. - ctrl ftrs is saved as a hash of the Category-Details pair(s) chosen in 16

Clicking this button finalizes the project.

User's Perspective: Move on to next step.

ID: APw5cz8i

END

Creating finalize proj request Connecting to server on port 8888

APw5cz8i: successfully finalized

Connected successfully Waiting for response APw5cz8i: finalizing

19 This textfield is for the user to input the read fragment length.

Which field in JSON: samples - <Sample_ID> - length

(I'll specify this in a separate time.)

Which field in JSON: samples - <Sample_ID> - stdev

(I'll specify this in a separate time.)

Which field in JSON: samples - <Sample_ID> - bootstrap_n

22 This table lets the user verify the MD5 checksums of their reads.

User's Perspective: If verification succeeds: proceed to next step

[sudo] password for lioscro:

(I'll specify this in a separate time.)

23 Other sample ribbons containing the same stuff as 8-22.

Note: Data validation is needed when the user provides input to this textfield.

20 This textfield is for the user to input the standard deviation of the fragment lengths.

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Which field in JSON: samples - <Sample_ID> - reads AND samples - <Sample_ID> - chk_md5

Clicking Submit saves all input as JSON to <PATH_TO: root folder>/projects/<Project_ID>/_temp as

Correct output: lioscro@lioscrol6:/media/sf_Github/alaska/src\$ sudo ./Request.sh set_proj --id APo7y6vr

Data Review Screen

Simply for the user to review their input data and check if everything's right. Displays the same information as the

data input form, but without any editable fields. Nothing occurs server-side.

Finalize

Command: <PATH TO: Request.sh>/Request.sh finalize proj --id <Project ID>

APw5cz8i: making directories for read alignment

APw5cz8i: ./projects/APw5cz8i/1 alignment/ASuomxz6 created APw5cz8i: ./projects/APw5cz8i/1_alignment/AS60ul3e created APw5cz8i: ./projects/APw5cz8i/1 alignment/ASi0o135 created APw5cz8i: ./projects/APw5cz8i/1_alignment/ASej3viq created APw5cz8i: ./projects/APw5cz8i/ Temp/APw5cz8i.json removed

Correct Output: lioscro@lioscrol6:/media/sf_Github/alaska/src\$ sudo ./Request.sh finalize_proj --id APw5cz8i

Then, issues the following command: <PATH TO: request.sh>/Request.sh set_proj --id <PROJECT_ID>

If verification fails: return the user to data input & highlight which fields failed verification

Note: The *reads* and *chk_md5s* are paired by order (first in *reads* with first in *chk_md5*, etc.)

21) This textfield is for the user to specify the number of bootstraps to perform.

User's Perspective: editable

User's Perspective: editable

User's Perspective: editable

User's Perspective: uneditable

24 This button submits all input data.

<Project_ID>.json