

# DESN2000 BINF Project Requirements

7 June 2023

Based on your requirements, is there a particular programming language you would prefer us to use?

Python, Flask and/or R

Can you guide us through the required details of the interface- its appearance, functionality, what should be on it, and how it should be navigated.

<https://metaboanalyst.ca/>

Between meetings, what is the best form of communication?

Email, Teams meeting or chat

Do you require a system in place for authorized access?

No

Is there a particular web browser used – chrome, Firefox, etc.

Chrome and Firefox

“The findings will be visualized using heatmaps, volcano plots, hierarchical cluster analysis (HCA).” Are these the only visualization tools required or are these just examples?

Volcano plots, PCA, OrthoPLSDA,  
Heatmap, K-means and RandomForest  
(as shown in MetaboAnalyst)

Will the data be uploaded or fetched from an internal dB?

Data will be uploaded



Do we need to consider different formats/types of data?

Only csv format at this stage

# Quality control steps?

Filter out data by comparing with blank:

fold change  $> 2$

p value  $< 0.05$

Q-value  $< 0.05$