

BMES 550 Project Design

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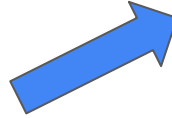
Flowchart

Dimitri

Database.sql

Input: Data from the CDC and affiliate websites

Output: Tables with the demographic data compartmentalized



Josh

UserInput.m

Input: Users' input into the GUI, Information from database from database.sql

Output: Risk percentage based on user's input

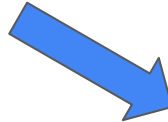


Madison

Summary.m

Input: User's demographic input from UserInput.m, Information from database.sql

Output: Summary plots of all risk factors chosen by drop down, summarized results based on the user's input



Descriptions of Database and Functions

Function	Description	Responsibility/Primary Author
Database.sql	Combination of all the data from the CDC website and other affiliate websites with data on monkeypox cases formed into tables for risk assessment	Dimitri
UserInput.m	This function will utilize MATLAB's GUI app builder. The function will allow users to input parameters such as age. A risk factor will be calculated based on users' input and displayed back.	Josh
Summary.m	This function will display the risk of different factors based on the user's inputs and summary plots based off statistics such as age, sex., vaccination	Madison