Front End

Data Request (API/get_data.php)

MySQL Calls

Data Object

Object Construction

Database

Data Table

Meta Tables

Data

Graph Type

Data Type

Display Name

Disease

Table name

Uploader

Legend

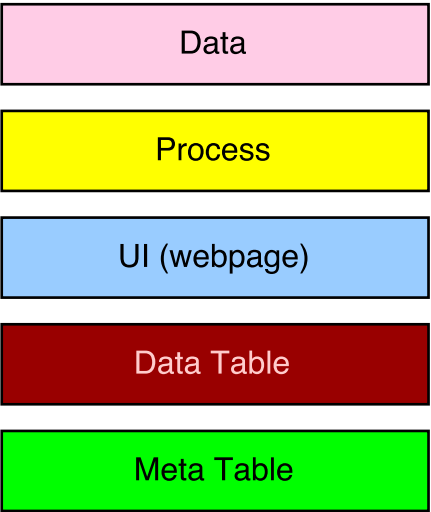|	
Data	(pink)
Process	(yellow)
UI (webpage)	(blue)
Data Table	(dark red)
Meta Table	(green)

Annotation

Front End:
- Front end makes query to API/get_data.php
- get_data.php executes necessary MySQL calls to get data from database
- get_data.php constructs and returns data object, including all stats and data sets, as well as metadata, in JSON format

Uploader:
- User supplies data (in .csv format), graph type (lin, bar, est, or int), data type (int or float), display name, and diseases
- Data table name is derived from display name and disease
- If the data table does not exist, it is created with the appropriate data type
- Data table is filled with data (each of 3 component stats for int stats)
- Graph type, display name, table name, and disease are used to create a new entry in meta_stats (or an additional data set index if the stat already exists)
- Tags are added in meta_indices, int stats/indices are added in meta_int, new diseases are added to meta_indices