

Please familiarize yourself with the file below labeled “FakeSample.json”.

In this example, the contents of the FakeSample.json file will ultimately end up generating the table shown below in a web portal.

Pain Management				
Acetaminophen (Tylenol)	Gene	Genotype	Phenotypes/Patient Impact	Patients with this genotype are expected to have a Poor response to Tylenol. Physicians should follow FDA label recommendations.
	FakeGene1	WT/WT	Normal Metabolizer	
	FakeGene2	WT/WT	Poor Metabolizer	
	CAUTION		Decreased Efficacy	

Additional information:

The three cells highlighted below are static column headers, so they will not explicitly be in the JSON file

Gene	Genotype	Phenotypes/Patient Impact
------	----------	---------------------------

Keep in mind, there are some attributes in the JSON file that are not used in the table. This is intentional.

The following project will require you to write a web application that will manipulate the JSON file we have provided. You can provide us with the program files you have written to complete your project, or if applicable, host your example on GitHub. Your project will be explained in the next page

Back End:

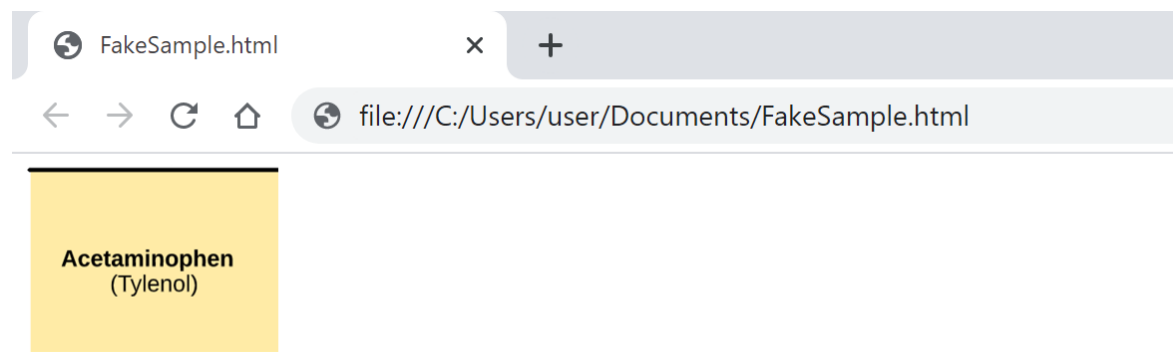
Please take the JSON file, and write a simple tool that stores the JSON file in a database. You can use any database framework of your choosing.

- Think simple. Assume there is not a database framework already established, so use whatever you think will be best for this task.
- While not all attributes in the JSON file may not be used in our example, please make sure to store them.
- Bonus: Write a simple web-app that can read your database and make an HTML table in a similar format in the first page (do not worry about style/color)

Front End:

Please make a simple web app where the landing page is a tool to visualize the JSON file attached. The design for this web page should be the following:

- Do not hard-code the JSON file into the web page. Your web-page should take any similarly formatted JSON file as an input.
- Have the landing page be a button with just the drug name. Example screenshot shown below:



- Upon clicking the drug name, please show the rest of the table (shown again below for reference)

Pain Management

Acetaminophen (Tylenol)	Gene	Genotype	Phenotypes/Patient Impact	Patients with this genotype are expected to have a Poor response to Tylenol. Physicians should follow FDA label recommendations.
	FakeGene1	WT/WT	Normal Metabolizer	
	FakeGene2	WT/WT	Poor Metabolizer	
	CAUTION		Decreased Efficacy	

- Please follow similar style and color (does not have to be exact)
- Bonus: Have the web-page change color motifs from yellow or green depending on if the “Action” attribute in the JSON file is “CAUTION” or “GO”, respectively (example shown below)

Pain Management

Acetaminophen (Tylenol)	Gene	Genotype	Phenotypes/Patient Impact	Patients with this genotype are expected to have a Normal response to Tylenol. Physicians should follow FDA label recommendations.
	FakeGene1	WT/WT	Normal Metabolizer	
	FakeGene2	WT/WT	Poor Metabolizer	
	GO		Normal Response	