



Juice Essence

Remote. Customized. Precise.

A Juice Dispenser.

Being served to you by: The Drink Mixer 5000

The concept behind our project is to take five different juices and depending on the percentages the user desires, the *Drink Mixer 5000*, will dispense their custom juice mix for them. Its easy and can be done right from any smartphone!



Scan QR to download Android App!



Above is the microcontroller that drives the entire project; hosting the webpage, driving the Android phone application, in which case both can take custom user inputted values via sliders and dispense their drink.



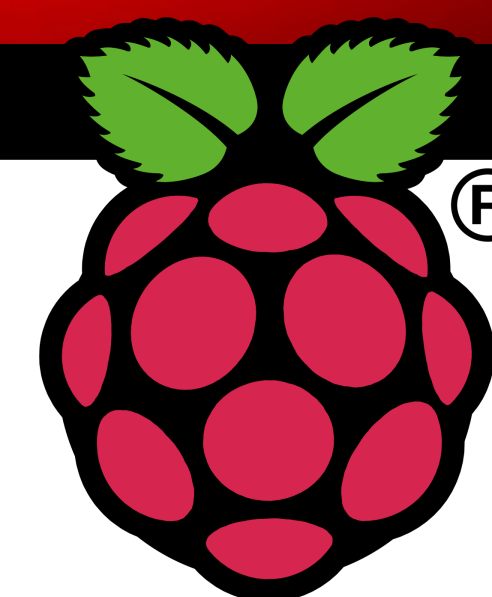
HTML ➡ The front end code, it is what organizes and styles the content.

JS ➡ The code which facilitates pulling the data from the front end.

PHP ➡ This is where the values from JS get sent, and then save them to the databases.

MySQL ➡ Here is the house to the drink queue, the saved drinks, and the presets databases.

C++ ➡ This portion is what actually takes those percent's and executes them by powering the valves for the exact time necessary to deliver the custom drink to the user.



We combined code that powers the web, and lower level code that can talk directly to the hardware, bringing a versatile dispenser that can remotely pour the perfectly distributed drink that the user uniquely requested.