

Imports

Eel – This is the library that makes this whole thing possible. It's like Electron but for Python. It's a library that allows developers to make applications using HTML, CSS, and Javascript with Python.

Scrapedb – A module I made that goes through the database and converts CRNs to room numbers.

Datetime – Used to get today's date.

Code

numList – List used to keep the number input in. This will either be a CRN or room number. Determined which one later.

eel.expose – Exposes whatever Python function below this line to JavaScript.

listadd(num) – Adds the number to the list. Called each time that a number button is pressed in HTML.

listpop() – Takes the top number (last number added) from the list and removes it from numList. If there are no numbers, don't remove anything.

listclear() – Clears the list entirely.

numtostring() – If numList is empty, the string "CRN / Room #" is returned to be displayed in HTML. If the list is more than five numbers long, don't let the user add any more numbers. After all of that is done, numList is turned into a string and is displayed.

crntoroom(crn) – Gets the room number from the CRN by going through the database.

eel.init(folder) – Tells the Eel module that this is the folder that everything web-based will be in here.

eel.start(htmlPage) – Tells Eel that this is the HTML page to start on.

Summary

These are all mostly functions to be called from the HTML by Javascript through exposure from Python. Eel acts as a bridge between Python and Javascript. This allows me to access the database with relative ease. Python is the language I know best. Now that I think about it though, I could've used Javascript based on what I learned during this project.