**Resnal Execution Steps:**

To update results for a semester, follow these three phases. Later modification and automation between these three phases can be done.

**Phase 1: Scrape from VTU**

1. Generate the CSV file from the name list provided. Use the same formatting as in the example csv files made in the repo.
2. To generate a csv file, go to Google Sheets and make the necessary format changes and then export to csv.
3. Next update <https://results.vtu.ac.in/JJEcbcs23/index.php> in different places.
   1. Change it in line 41/ its vicinity. In the referrer tag
   2. Change it in line 53 at the URL part in the getNewSession function
   3. Change it in line 121 and 125
4. Usually missable: Change semester in line 148
5. Next, update the csv file path in line 206 to the one you generated
6. And update the result.json file to a new file that you can generate
7. After making all the above changes, run the following:

tsc reval.ts

To run the compiled js file, run:

node reval.js

1. Next keep filling the captcha in the terminal while referring to the cap.png ( Usually has a 20 second cooldown period before which you get results back again )
2. After generating the json file, it usually is in the wrong format, need to add commas at the end of each line. I used <https://pinetools.com/add-text-each-line> for this
3. Now you have successfully generated the json file, the painful part is finally over

**Phase 2: Dumping generated json file to the running db container**

1. Now update the getCredit function in the dump.py file to reflect the current subcodes for that particular semester
2. Here also verify for electives and include all subjects as every student might not have taken the same elective.
3. Next run:

python dump.py

**Phase 3: Backing up the db container**

1. Now the db would have been updated with the dumped json file. Take a copy of the entire db path in the server.Run:

sudo cp -r db/ <your\_db\_name>

1. After taking the backup, you can call bash restart.sh to update the containers in case they are down.