Understanding Abstractions and APIs

- 1. For this assignment, you will be developing the following (in python):
 - a. A class with functions to handle DBMS operations
 - b. A module containing this class
 - c. A package with this module
 - d. A flask API server
 - e. An API operable database
- 2. Class requirements:
 - a. Name: Mysqlhandler
 - b. Functions:
 - i. init
 - ii. add_user
 - iii. update user
 - iv. delete user
 - v. display_users
- 3. Module requirements:
 - a. Name: sqlhandler.py
 - b. Create a main section (as mentioned in class main method does not exist in python)
- 4. Package requirements:
 - a. Name: dbhandler
- 5. Flask requirements:
 - a. Name: (Package Name) flaskapp
 - b. Endpoints:
 - i. /user/register [POST] : add user to the db
 - ii. /user/update [POST] : update the user data in the db
 - iii. /user/delete [POST] : delete the user data from the db
 - iv. /user/view [GET]: view all the users in the db
 - c. Import dbhandler package to do all the interaction with the database
 - d. Data format for communication on APIs: JSONs
 - e. Software to test your application: Postman
- 6. Driver script : server.py
- 7. Package requirements: flask, mysql-connector-python(verify form documentation of mysql)
- 8. If any details are missing, or concepts seem vague please let me know I will share information/resources on it.
- 9. Deadline: Monday Sept 20, 2021
- 10. Screenshots for reference (<u>names are different in the screenshot</u>, <u>but submission should be as per names listed above</u>):







