 Object Oriented Programming

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For my Project I decided to create an Instruments Rental Database, for this project as part of the project description there were a list of requirements firstly being the use of crud operation so being able to add, get, update, and delete an instrument from the tables in the database created using SQL.

I was able to show the use of inheritance in my code by having my Service class implement Crud Operations in where it took in the information stores in my Operations.

I also used Array list and interfacing in my Operations class where the crud operation are stored here arrays list are used in the GetAll prompts in which when accessed will prompts the user to get all the instruments in the table in a list format, as well as this in the same class interfaces are being used in where it specify a contract that my Service class follows.

To ensure the functionality of my Database connections I made a test class in which tested the functionality of the class I used three test parameters in the test class e.g., testConnectionValid in which tested if there was a valid connection to the SQL database.

In my database I had two connecting tables that I connected using JDBC, instruments and rents tables and they were connected with primary and foreign keys.

Throughout this project process I was learning and relearning java processes via various sources mainly lecture notes and assignments but also from individual research and with this I was able to learn better coding style and more efficient use of code, a simple example would be instead of writing out setter and getters have them generated within for example.

Now that the project is completed there are things, I see looking from the outside that I know I would include or improve if I prioritized my time more efficiently. I would have included the crud operation for the rents table having the same capabilities as with the instruments as well as directly use the instruments family tables I created in SQL for when adding an instrument in which I would have had selected an instruments from the table and connected them to the instruments table using JDBC creating a larger connected database.