

Sukmit Project

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Our project will solve and makes it easy to record and write the different number of goods and items available in any warehouse related business. Our project mainly aims in using a computer to store all the data related to our goods. We will be able to store any number of items/goods in our system, with our defined properties, parameters.

To show this, in real world, we tried a fictional Shop which specializes in selling PC Parts to costumers. So, for example we will wanting item like CPU, Motherboard, Memory. And they could have parameters like, what's it's model, it's specs and How much our warehouse have and how it prices? These all things are probably very difficult to memorize by people, and would make it difficult to business with other people if we're unsure about our own products. In old days, these kinds of problems were solved by writing everything by hand and as the warehouse increases it's size. It would be very tedious, time consuming, requires many workers just to keep records. But, as our project mainly aims to solve this problem, we've created program to solve this issue.

Technical details

// Tapai backend backend vande hununthyo, backend frontend sabbai haldeko
We have used MySQL database as our backend system to store all the data.
And We've used java as our main programming language to interact with database as well as
Creating GUI interface of our system.

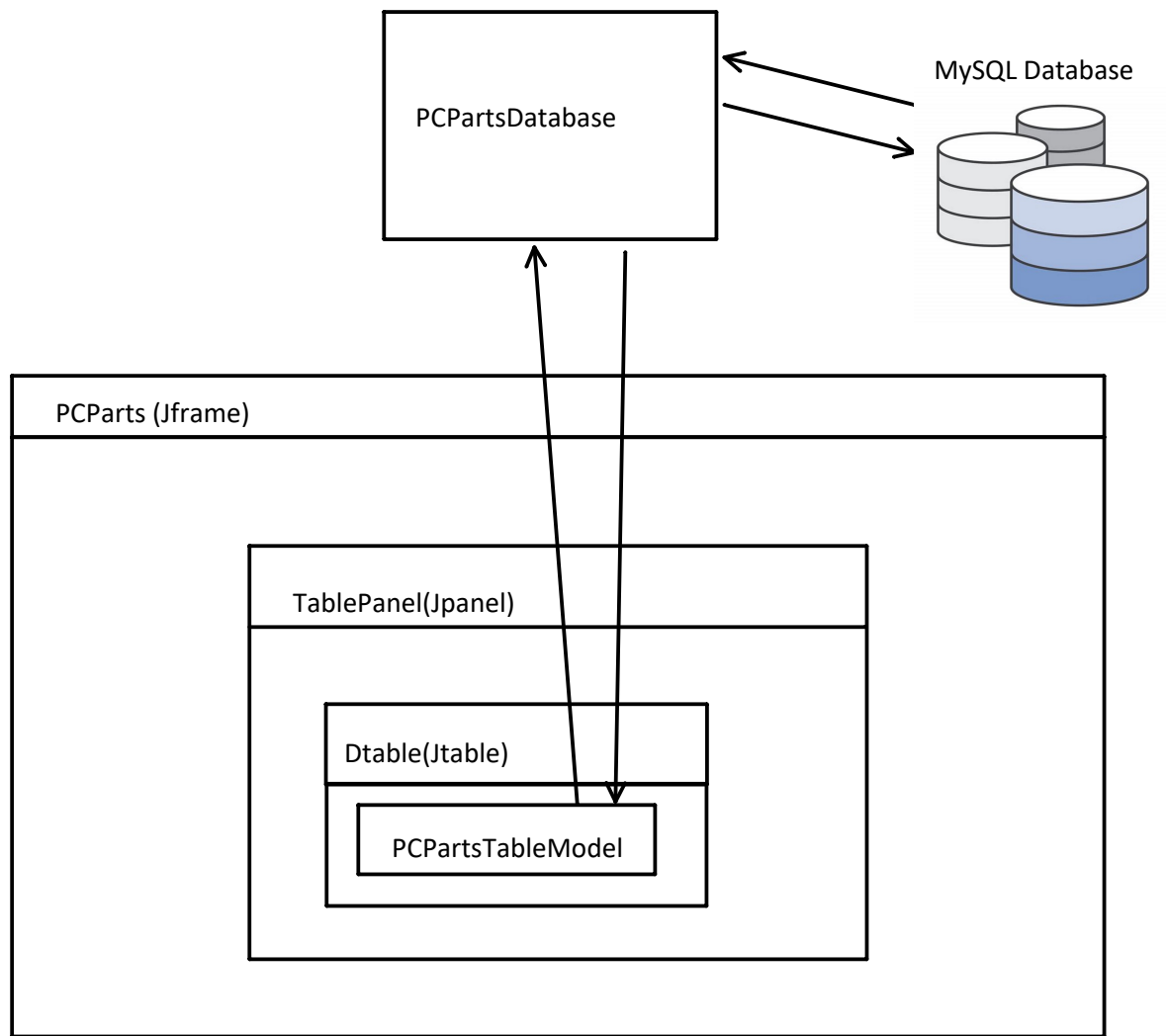
So, we have class called PCPartsDatabase, a singleton class, which will have all the code to interact with our database and will be able to get table data, insert, update, delete from table.
This class has member functions as,

initDatabase() : initializes and creates database and all the tables necessary
insertTo(): helps in inserting rows in database table
updateAt(): helps in updating rows in database table
deleteFrom(): helps in deleting rows in database table
getColumnTypes(): returns all the data types of a database table
getColumnNames(): returns all the names of columns of a database table

Etc..

As for the GUI part we have PCParts which extends JFrame as our window. We add all the necessary panels there. We have Dtable which extends Jtable, to show and implement a graphical view for a database table. We could add, delete and update directly from our GUI interfaces.

To show all the interacting classes clearly, following diagram will help,



This is our small step on more better and complex system, that will help in minimizing the problems of record keeping. This small project is capable of adding item, updating item, and deleting item as our warehouse changes. And this will significantly improve our simplicity in tediousness, and also will make it less time consuming and also helps in minimizing manpower.

This is just a small step in more better solutions. We could our GUI to be more friendly and we could create more complex system for creating tables, typechecking tables, and We could create some transaction system to keep track our customers and the transactions of goods they have done. And this could help in providing a statistical view of the business.