CPE 365 Store

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Program Features

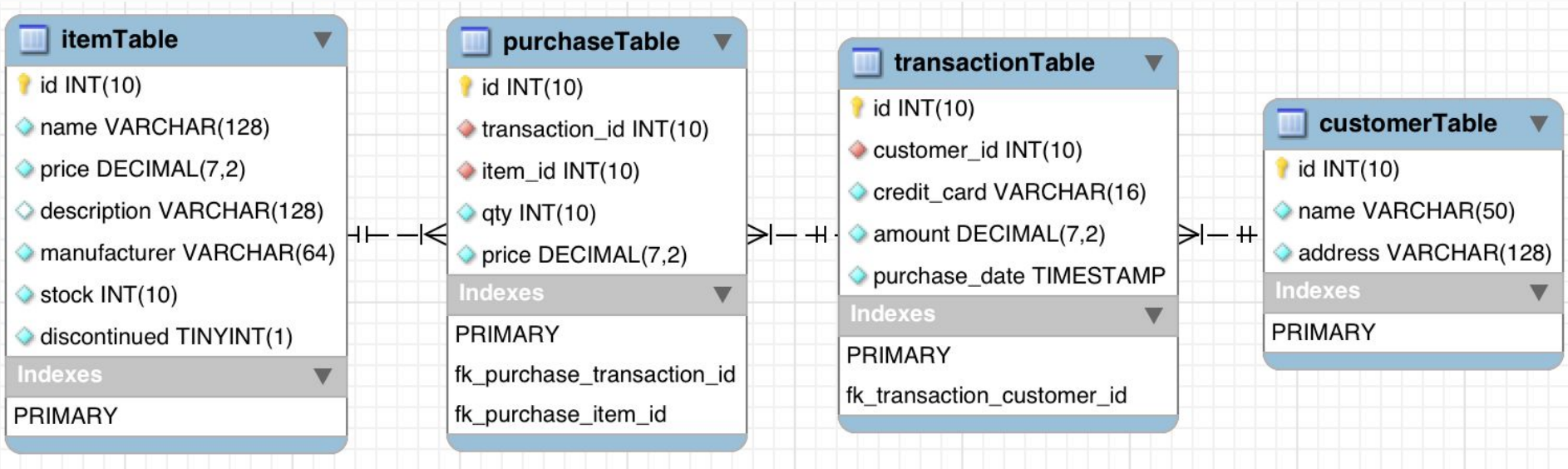
- Offers an interface for an online store with a MySQL backend
- Users can view items, add items to a cart, and make purchases

Program Features - Warehouse

- The program includes a warehouse feature for store administrators

- Administrators can add or remove items being sold in the store

Database Structure



Program Backend

- Data Access Objects that return each data type

- GUI gets objects from DAO and displays data

Program Backend Continued

Items

- Stock and Discontinued rows determine if an item is displayed in the store
- Trigger that causes stock to be decreased when an item is bought

Customer

- Customer information is stored for later purchases

Program Backend Continued

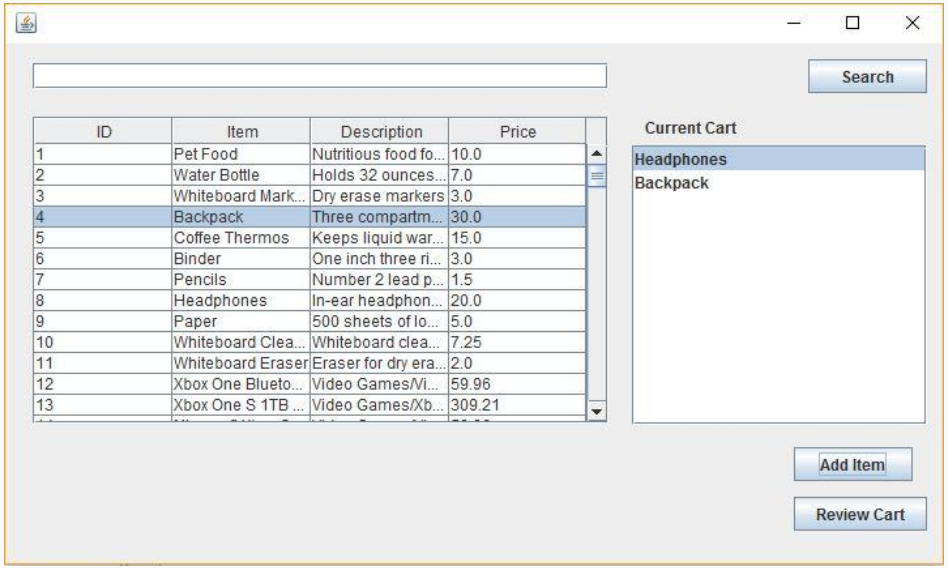
Transactions

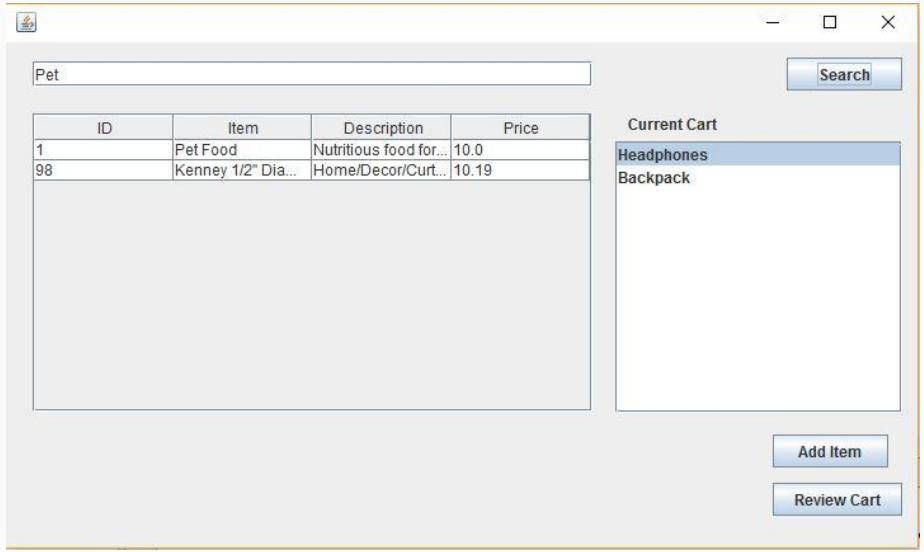
- Every time a customer checks out, a transaction is created

Purchase

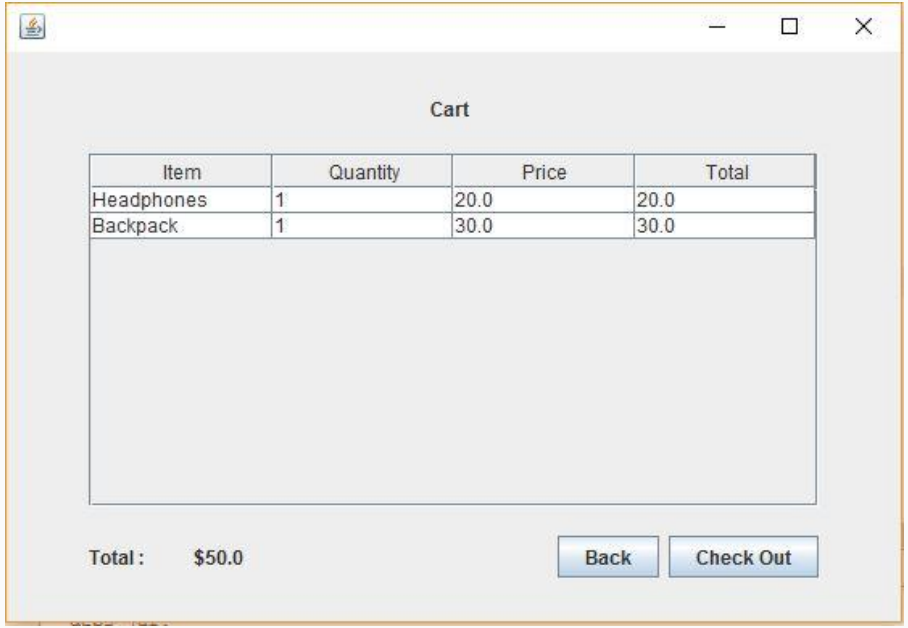
- Represents the items bought in one transaction

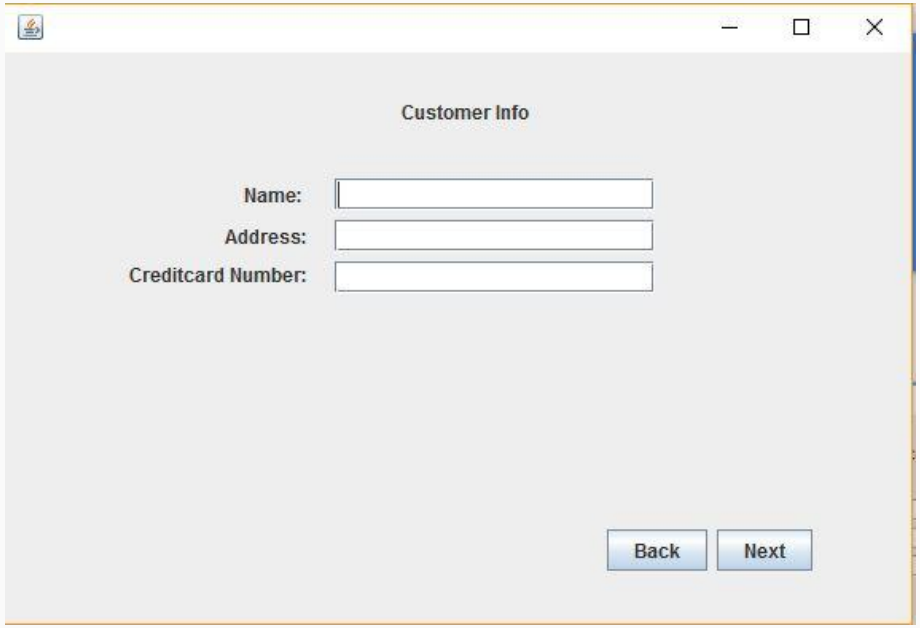
Program Usage : Customer



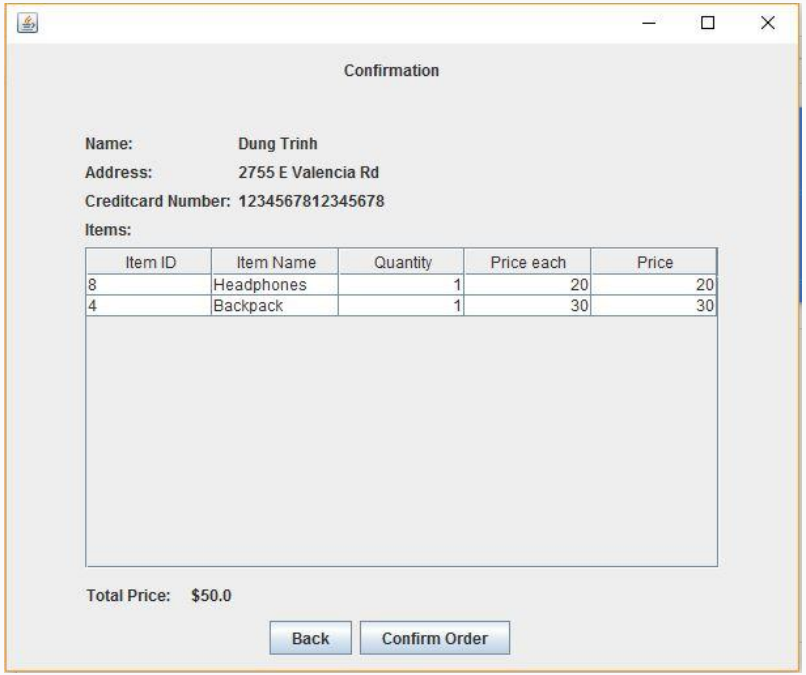


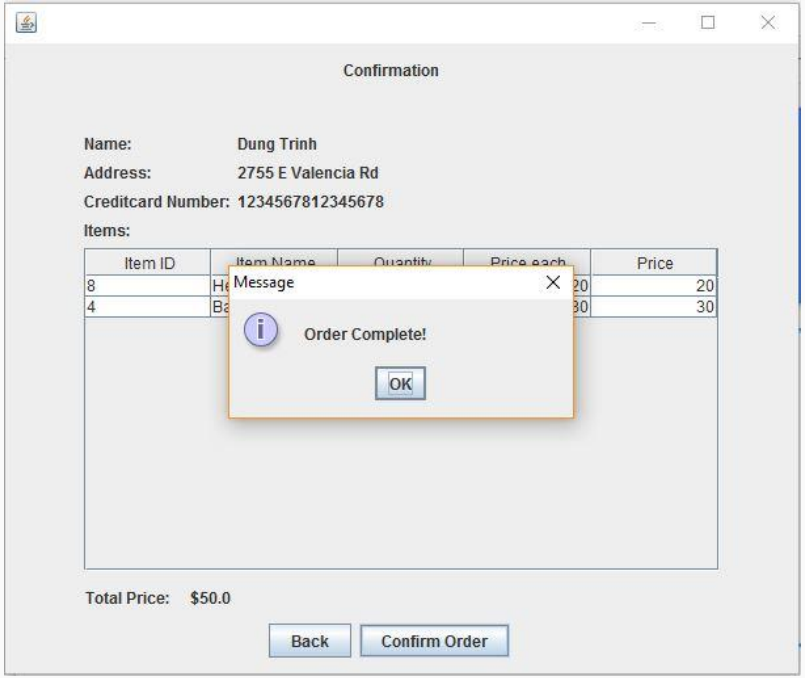
Program Usage : Customer



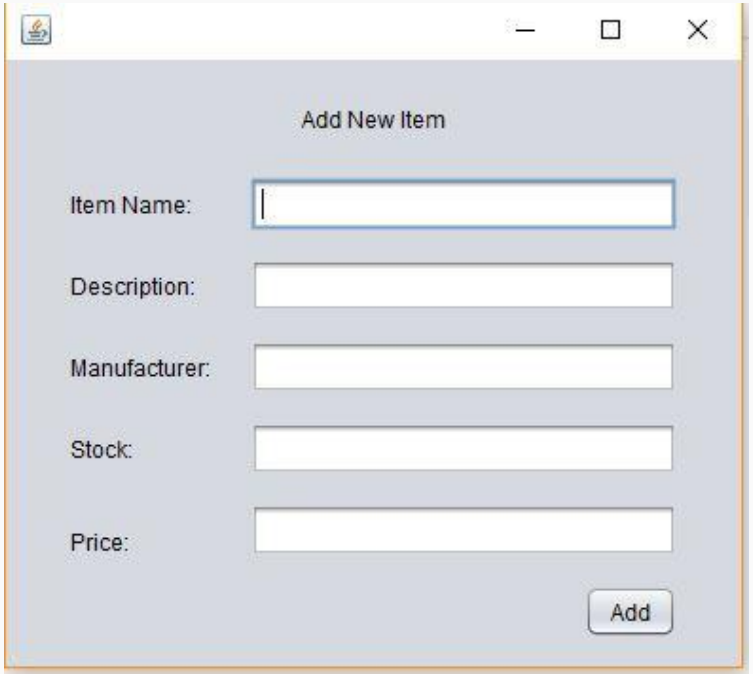


Program Usage : Customer





Program Usage : Warehouse



Main Challenges

- Structuring the program so that the GUI can easily communicate with the database

- Designing a database and managing relationships between tables

What We Learned

- Implement the GUI using Java Swing
- Learned about JDBC and how to use it to interface with a GUI
- Also learned about database administration, and how to design the logical schema of a database

Program Demo

- Walk through the customer interface: searching for items, adding to cart, and making a purchase

- Display warehouse features: adding an item and removing an item