

Point of Sale System pitch

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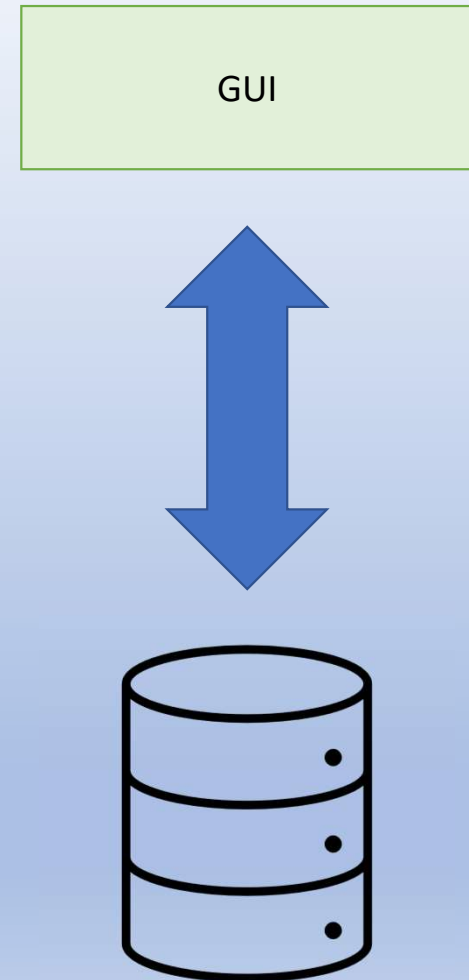
Point of sale system

- Project Description
 - Software used in a store at cash register
 - Scan (type in) barcodes to look up prices
 - Add products to the database
- Team
 - I'm looking for 1-2 others to join the team
- SQL
 - SQLite
- Nosql
 - MongoDB
- Overall design philosophy
 - Keep it simple.



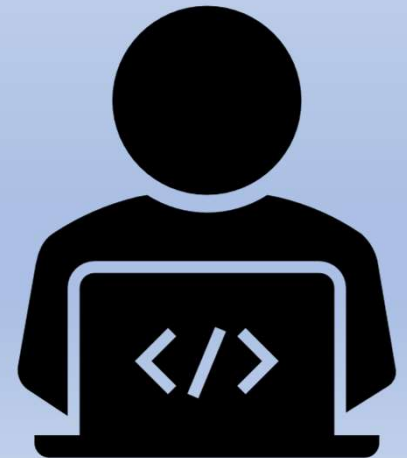
Point of sale system

- 3-4 tables in DB
- **Simple** GUI
- Could be implemented **without a server**
 - Server could be added later if we decide additional complexity is necessary.



Functionality

- User can **scan** (type in) barcode to find price of an item
- Program **calculates**
 - Promotions/sales
 - Tax
 - Total cost of scanned item



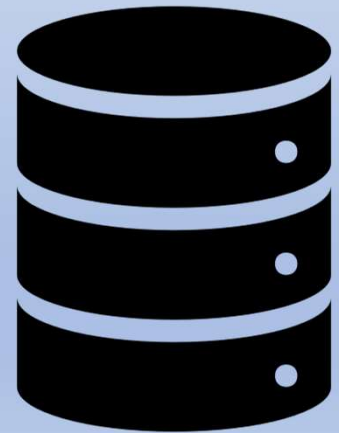
GUI

- Cashier view
 - Scan a single item, view price
- Manager view
 - Add, view, update, remove **items**
 - Add, view, update, remove **promotions**
 - Add, view, update, remove **Tax Rules**
- Test data loader
 - Load in CSV of test data



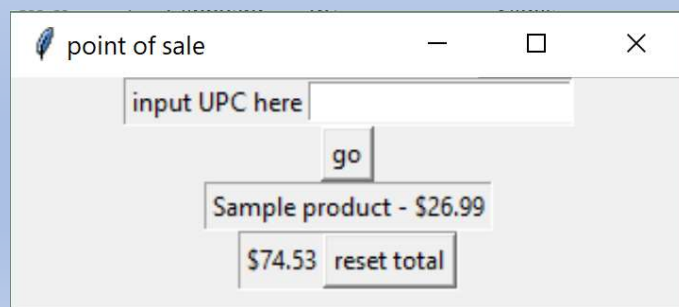
Database

- Product table
 - Product name, barcode, brand, tax category, etc.
- Promo table
 - Discount %, products/brands eligible
- Tax table
 - Tax category, tax rate
- Other tables
 - List of possible categories for the gui??
- Could be enhanced by nosql



Demo GUI (python, TKinter)

- **GUI not the focus** of this class or worth a lot of points (if any)
- Time saved > beauty
- If someone wants to spend time on it they can
- Using python because it is very easy to connect to a db and also create a GUI in the same app



Business, Legal, Technical

- Business
 - This software will be free and open source
- Legal
 - We will have to choose an open source license
- Technical
 - I chose python because (can be flexible on changing language)
 - Ships with sqlite3 module already
 - Pymongo is easy to install. Mongoengine might make nosql easier
 - Easy to create GUI
 - no server is required for this project, reducing cost and increasing simplicity