

CSU Bakersfield

School of Natural Sciences, Mathematics, and Engineering

# About nonPOS

- NonPOS is a hardware independent point of sale application intended for use in a Quick-Service Restaurant environment.
- NonPOS has been refined to meet the demands of both small restaurants and large chains. Our system delivers a quick, simple and intuitive interface that aims to increase efficiency and accelerate order processing.

# Features

- Entirely web based accessible from virtually any browser
- Create, manage, and fulfill order with the built-in register
- Manage and oversee employees, tracking performance metrics, hours worked as well as detailed sales analytics.
- Process Card Transactions on any mobile device by integrating Square API directly with our app.
- Powerful order customization and manipulation via Multipliers and Modifiers

# nonPOS Hardware Agnostic Point of Sale System Nagi Obeid, Joshua Logue, Gavin Meren, Kevin Mitra, Maribel Mireles







Department of Computer and Electrical Engineering and Computer Science

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1       2       3       4       5       6       7       8       9       10         1       2       3       4       5       6       7       8       9       10       Dine-In       Take-Out       Call-In         #1       #2       #3       #4       5       9       10       Dive-Thru       Dive-Thru         Cot       #1       5       6       7       8       9       10       Dive-Thru       Call-In         1       2       3       4       5       6       7       8       9       10       Dive-Thru       Call-In         1       0       0       No       Tomato       No       No       Dive-Thru       Dive-Thru	<ul> <li>E</li> <li>C</li> <li>a</li> <li>F</li> <li>it</li> <li>t</li> <li>v</li> </ul>
Home       Log Out         Diamond       POS Register         Sales       Menu         Employees       Diamond         Settings       POS Register         Employee Login       POS Register         Employee Login       Employee Login	• ( b r •
Fully Integrated SQUARE         API for Card Processing.         Complex Sales Tracking         System updates on each         transaction	• •

# Challenges

Database required fine-tuning in order to implement features (extra attributes, etc.)

Fetching modifiers for each specific tem was difficult as some items had the same modifiers, some had them with a charge and others without.

Getting the SQUARE Api to navigate back to our application with a response was difficult.

# Conclusion

#### hat were proud of:

Credit Card processing via an HTTP request from a browser to an API.

Nesting Modifiers within Items

### **Jure Plans**

Barcode scanner, will allow us to expand to other markets.

Live Kitchen View, to allow kitchen staff to monitor orders and their times.

Nesting modifiers within Modifiers