**TEAM:** LAL

**PROJECT LEAD:** Logan Connolly

**TEAM MEMBERS:** Abel Briggs, Lizkebe Manjuk, Logan Connolly

**PROJECT:** Restaurant Automation

Initial Requirements

IN – input, OUT – out, PRO – process, FN – functional, NF – nonfunctional

IN-FN-01: The system shall allow the user to start their order by hitting the start order button

IN-FN-02: The system shall take in orders (food and drink)

IN-FN-03: The system shall read in payment via card, NFC, and cash

IN-FN-04: The system shall allow chefs to mark orders as complete

IN-NF-05: The system must take in input through touch screen devices

IN-NF-06: The system must be able to read both chip and swipe cards

IN-NF-07: The system must be equipped with NFC chips to be able to read data from NFC payments

IN-NF-08: The system must be equipped with a cash terminal to take cash

IN-NF-09: The system must respond to user input within 500 ms

OUT-FN-10: The system shall display the menu to the customer

OUT-FN-11: The system shall display each order to the chefs

OUT-FN-12: The system shall display when the order is complete to the customer

OUT-FN-13: The system shall display the total price of the order

OUT-FN-14: The system shall print a receipt when the order is processed

OUT-FN-15: The system shall display when the order is ready to be picked up

OUT-FN-16: The system shall display a confirmation message to confirm the order

OUT-NF-17: The system must be equipped with a printer to print receipts

OUT-NF-18: The system must be network equipped to display the order to the chef

PRO-FN-19: The system shall calculate tax

PRO-FN-20: The system shall add tax to the bill

PRO-FN-21: The system shall calculate the bill based on items ordered

PRO-FN-22: The system shall display the orders to the chefs using LAN

PRO-FN-23: The system shall keep track of how many orders go through in a day

PRO-FN-24: The system shall keep track of analytics on how much each item is ordered

PRO-FN-25: The system shall generate a report of analytics of order statistics

PRO-FN-26: The system shall generate and maintain order numbers

PRO-NF-27: The system shall be implemented in java

PRO-NF-28: The system shall run on Windows and Linux

PRO-NF-29: The system must have an administrative control panel

PRO-NF-30: The system shall not store credit/debit card information