Capstone Final Project Idea Document

## Instructions: Answer the following questions as detailed as possible (think paragraphs…not words or sentences). It is important that I understand everything. If you think your answer to any question could be vague, then provide more detail. Remember, spelling and grammar count.

**Team Name:** Team B

**Student(s) Name:** Cole Whitaker, Adam Broderick, Jason Cope

**Project Name:** Idea #1 Food Truck Business

# Provide a description of your project. Be as detailed as possible.

We are going to explore a food truck business, possibly tacos or pizza. Included will be a GUI for ordering food, creating a ticket to build the order, a way of tracking toppings sold, total sales, current inventory, budgeting of specific items/toppings, employee hours, pay and scheduling, and business forecasting (food trucks are busier in the summer than the winter).

# What problem or need does it solve? Technology should only be developed if it is a good investment. What tangible or intangible benefit can you foresee once this project is implemented?

The problem solved is people want to trade money for food preparation services. Taco ingredients are relatively cheap, and pizza crust is made from water, yeast, and flour, all relatively inexpensive. The benefit will be profit for Team B!

# Provide a short explanation of how you see the finished application working. Note: it is expected that the project will incorporate the 4 aspects of crud.

Customer puts in order though GUI (CREATED), for the food preparer who is given an output to prepare (READ). Toppings sold are subtracted from inventory & money is added to the gross earnings (UPDATE). Items that are no longer in stock are made inactive in the GUI (DELETE).

# This project requires you to collect requirements from a user or a representative of users who will ultimately use the application. Who will you gather these requirements from and how?

# We would collect these requirements from food truck employees, people that have or currently own food trucks, and managers of restaurant operations. We would also do focus group/food tastings with perspective customers, to fine tune recipes.

# What risks do you see in pursuing this project? Meaning, are there risks that could prevent you from completing this project successfully?

We may conduct a feasibility study including initial investment in truck, food license, and basic weekly operating cost. Creating a beautiful GUI may be the biggest programming hurdle.

# What technologies do you plan to use to complete this project? That is, .NET, PHP, SQL/Server, etc???

We are all fairly confident in our Python skills. Two of us took the Java route, the other took the C++ route. Tkinter is a Python GUI framework; we discussed using that and PHP.

# Is there any additional considerations that should be discussed about this project prior to approval?

I don’t think so. I do not believe we have the capital to actually start this venture; perhaps we could develop a business plan to present to a bank or investor(s).