**Executive Summary**

*This section provides an overview to the project. It should briefly touch on the motivation, data question, data to be used, along with any known assumptions and challenges.*

* The motivation for my capstone in creating a dashboard for to have real time data for operators on which areas are driving their cost per meal (CPM= how much it costs in food per customer).
* Data Question- How can we get NetMenu data to be displayed with visuals and have it updated with Meal Plan reports coming out of Gold daily?
* Data to be Used- we will use the menu export from NetMenu and the daily swipe reports out of Gold

**Motivation**

The clear motivation out of pulling this information into PowerBI is to learn more about what we serve. KPI’s that will be focused on the dashboard will be CPM and food waste.

The real motivation for this lies in operators being able to go to a central spot to get the information they need and allow them to make better decisions moving forward without having to learn how to run reports out of the system OR giving them a better idea of what reports they need to look at.

**Data Question**

*Present your question. Feel free to include any research/articles that are relevant or show where others have attempted to answer this question.*

How can we look at in real time what our CPM is and what is driving that cost? How can we make better decisions about our menu mix that touches on the areas that we deem important (socially responsible menuing) and still keep costs in line?

**Minimum Viable Product (MVP)**

*Define your MVP. This should be a description of what your final capstone will look like, including visualizations, how the analysis will be presented, who the intended audience is, etc.*

Intended Audience: Business Services at Vanderbilt and perspective employers

MVP:

The project will be presented starting with slides describing the questions and the systems at play. Also, with slides I will explain the minutiae of how the data is getting to where it needs and the cleaning steps. Then, I will use a flow chart of how the information is disseminated through time to get to the end result. Finally, I will present the dashboard from the PowerBi site that it would be viewed from and demonstrate it’s ability to display the needed information.

In order to do this, I will need to mock up sales and menu reports that will run and update the dashboard for the presentation. I will show the dashboard with one day displayed, and then run a mock ‘end of day’ and have the dashboard refresh with the new accurate information. This will also be an example of one location that could get applied to many locations within Vanderbilt.

**Schedule (through <date of demo day>)**

1. Get the Data (11/05/2021)
2. Clean & Explore the Data (11/15/2021)
3. Create Presentation of your Analysis (11/29/2021)

* Should be a presentation, but could include a Jupyter Notebook or dashboard in Excel, Tableau, or PowerBI

1. Internal demos (2/21/2021)
2. Demo Day!! (1/06/2022)

**Data Sources**

Cbord Netmenu data export- CSV*- does not run will need to be pulled*

Cbord Gold transaction by Meal Period Report*- will need to ‘run’ this*

**Known Issues and Challenges**

*Explain any anticipated challenges with your project, and your plan for managing them. Be sure to include:*

* *If you need to request data or an api key*
* *Based on your data sources, known data cleaning steps*
* I will need to learn how python and PowerBI work together so that when a report is generated it automatically gest cleaned an populates in PowerBI- **will need to research this immensely**
* Will need to mock up a couple days worth of menu data and sales reports, right now these will be coming from the Commons Dining Center week of 11/4/2019
* Run reports in a sequential manner that will go along with the presentation- will need to practice this ahead of time and then walk it back. Potentially have a mock presentation and then the real thing?
* Create meaningful visuals that will speak to the audience, already have this somewhat thought out