



UMD Campus Pantry

Quest Group Project - BMGT438A

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Meet the Team



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Goals and Objectives

1. Find out who the Campus Pantry serves.
2. Find trends in the Campus Pantry Data.
3. Compare to the campus-wide food insecurity study.
4. Provide recommendations for tracking moving forward.

1.

Data Analysis Approach

Approach

1. Clean the data
2. Identify total client breakdown
3. Identify client trends since 2014
4. Group clients into clusters

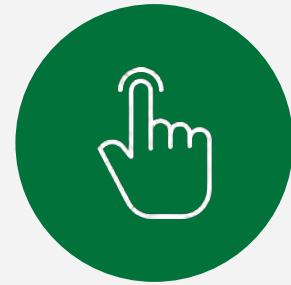
Data Format



Excel
spreadsheets



Semesterly vs.
Yearly



Entered
manually by
Campus Pantry

Data Collection

ID

Race/Ethnicity

Gender

UMD Affiliation (student or faculty/staff)

Full time or part time student/staff

Student classification (grad vs undergrad)

Dependents (yes or no)

Number of Dependents

Allergies or dietary restrictions

Cooking appliance access

Weekly distribution attendance

Data Cleaning

Many rows have empty values

Drop columns that are overwhelmingly empty, then drop rows with empty values

Client did not attend any distributions

Remove these clients because we do not know if they used the pantry's services

Combine distributions by month

Combine client distributions by month for standardization

2.

Who Does the
Campus Pantry Serve?

Study Comparison

Campus-Wide Food Insecurity Study		
	Study Data	Pantry Data
Undergraduate student	65.2%	61.05%
Graduate student	34.8%	38.95%
Female	73.9%	68.80%
Male	21.7%	28.10%
Other	4.3%	3.10%
Asian/Asian American	39.1%	28.80%
Black/African American	17.4%	33.70%
Hispanic/Latino	17.4%	26.30%
White	43.5%	6.70%
Other	26.0%	4.50%

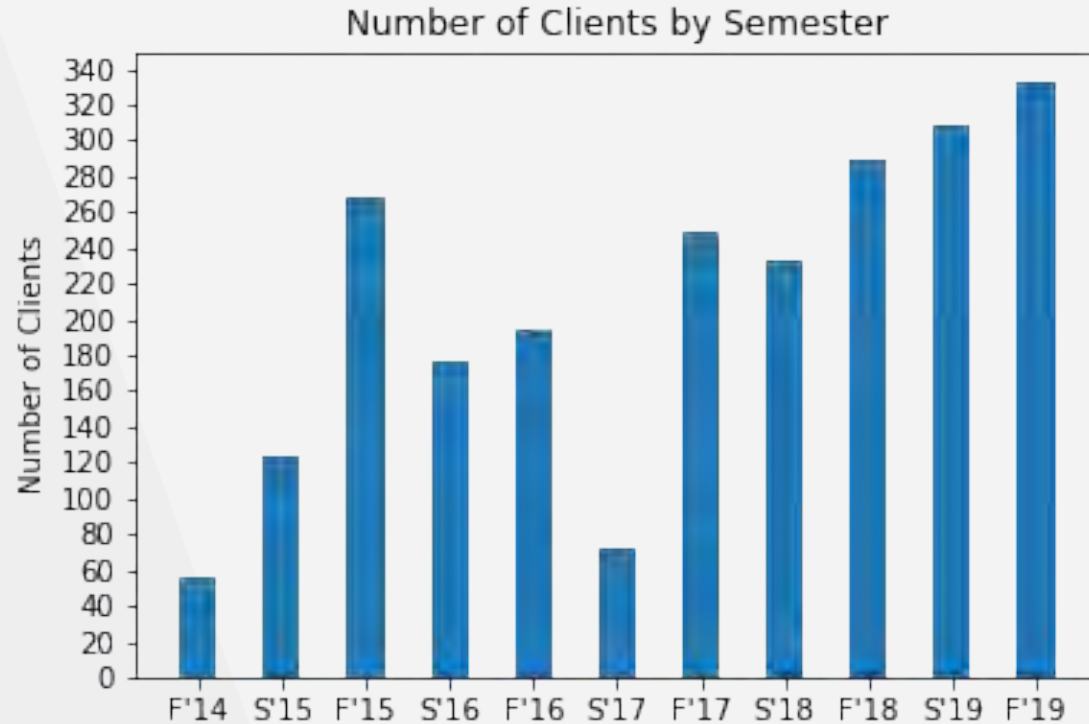
Data Clusters

Main Client Demographics (K-Mode Analysis)			
Cluster Size	66%	13%	21%
Race/Ethnicity	African American or Asian	Hispanic, Latino, or Asian	Hispanic or Latino
Gender	Female	Male	Female
UMD Affiliation	Student	Faculty/Staff	Faculty/Staff
Number of Dependents	0	0	1-2
Distributions Attended	1-3	4-6	1-3

3.

Trends Since 2014

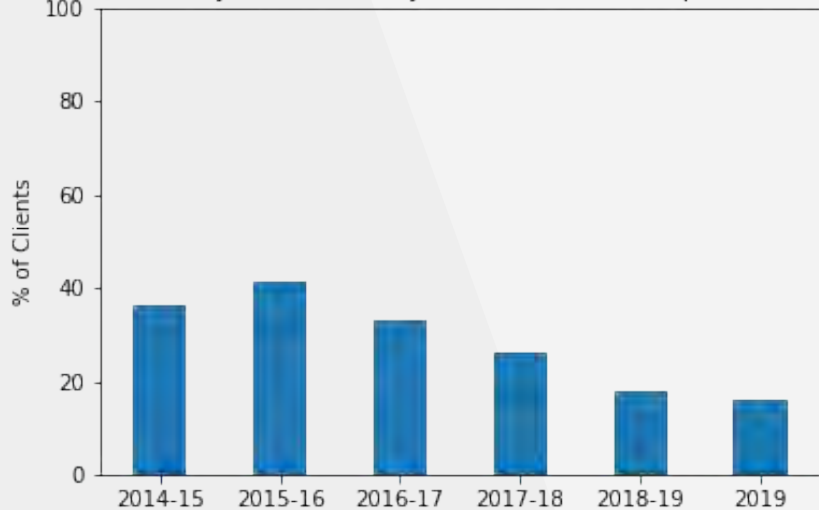
Number of Clients Served



Client Race/Ethnicity

Hispanic or Latino Clients

Race/Ethnicity Breakdown by Academic Year: Hispanic or Latino



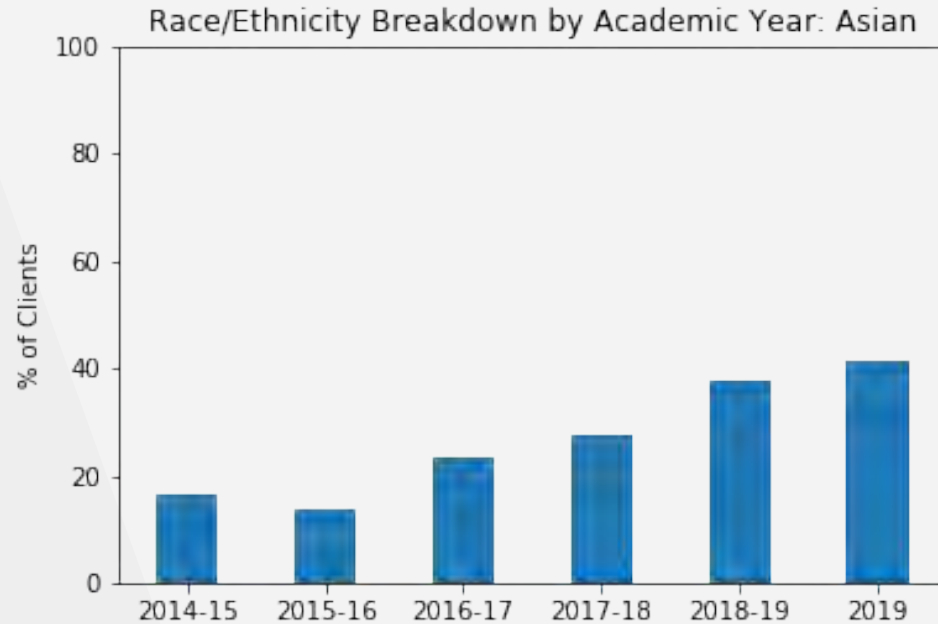
African-American or Black Clients

Race/Ethnicity Breakdown by Academic Year: African-American or Black

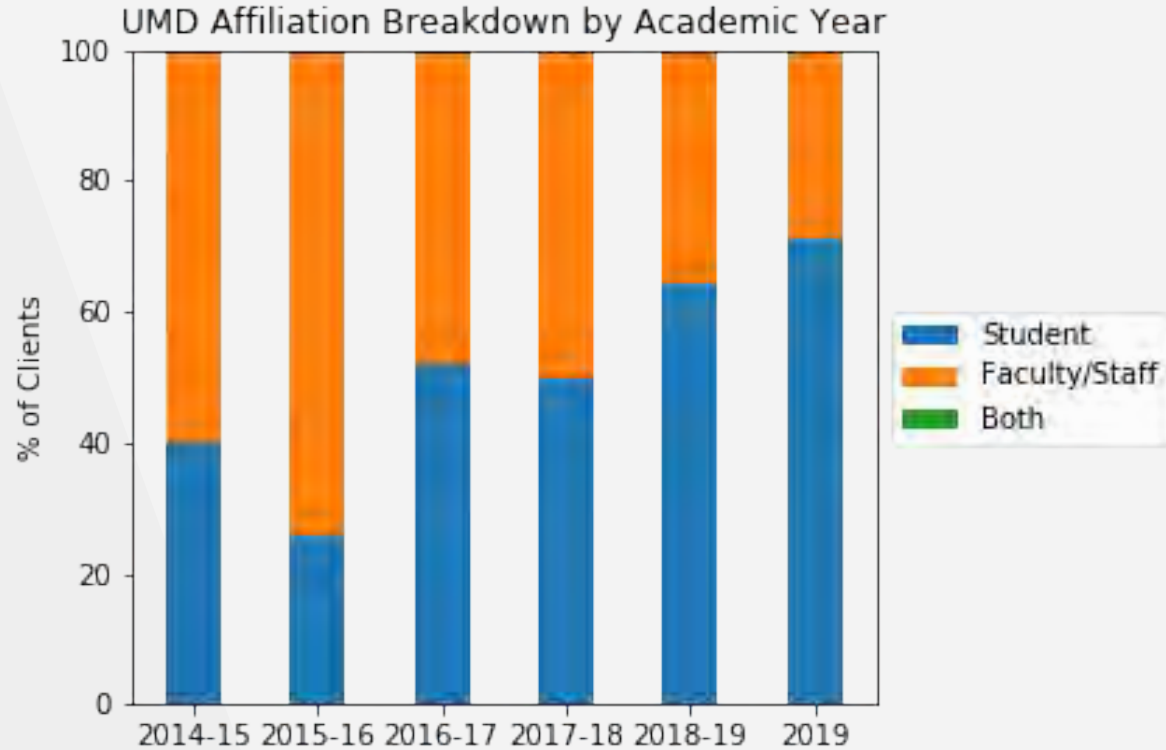


Client Race/Ethnicity

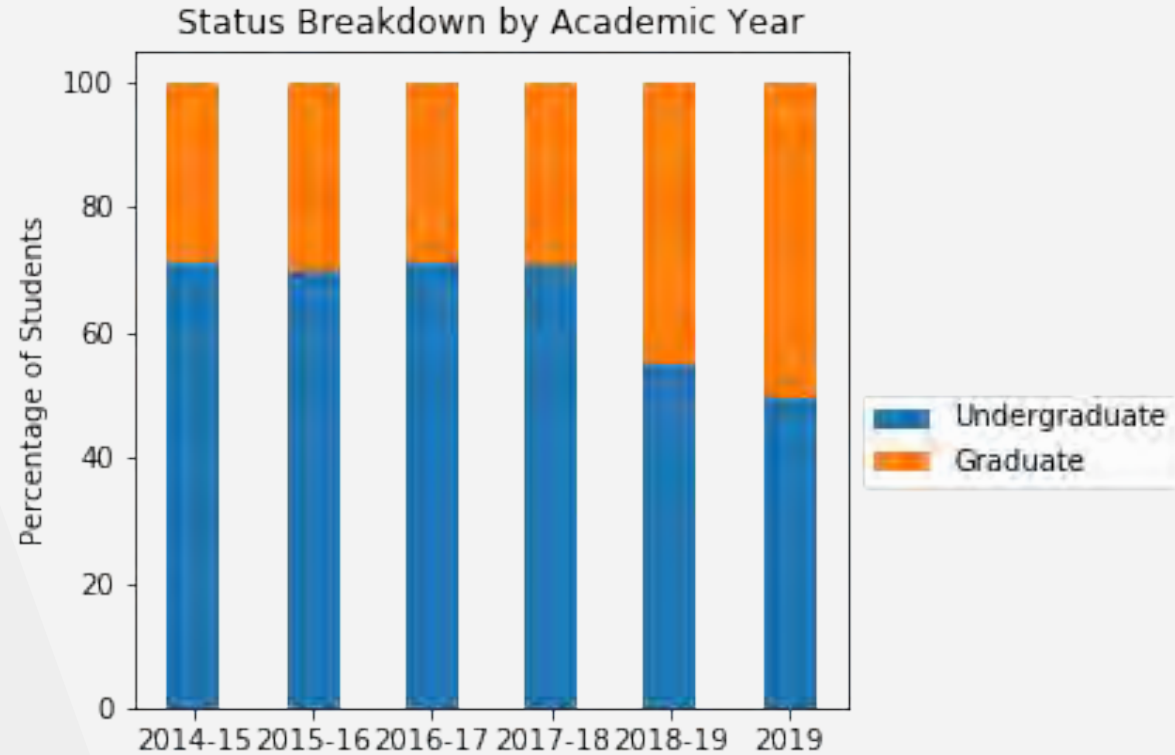
Asian Clients



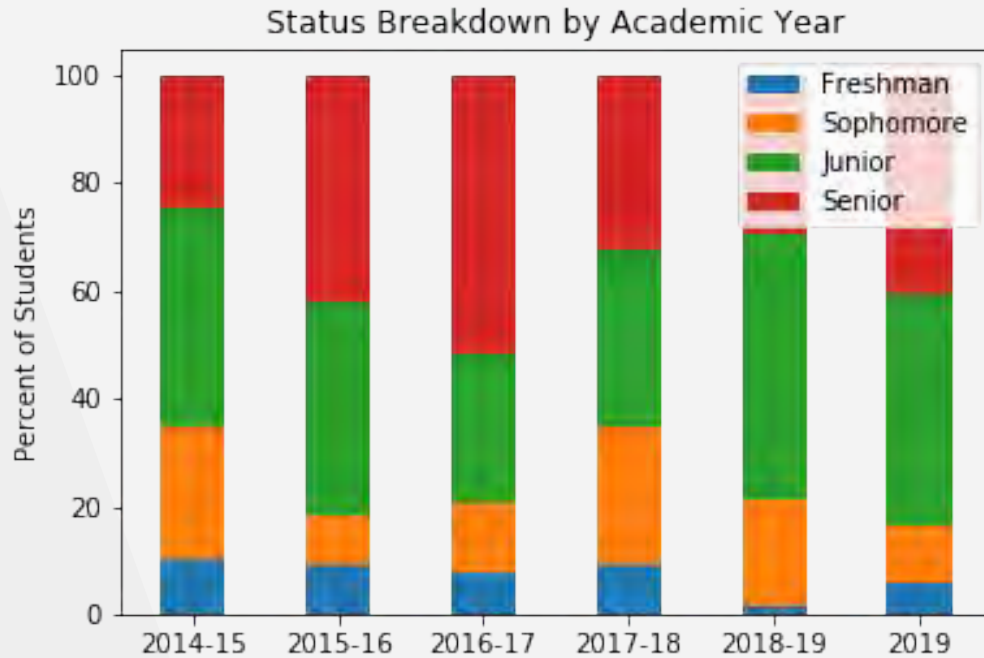
UMD Affiliation



Student Status



Student Status



4.

Recommendations

Phase 1

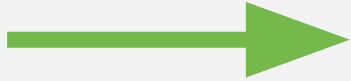
Data Collection Standardization (1-2 year period)

Standard information form ⇒ Reduce room for interpretation

Data will become easier to analyze ⇒ More data can/should be collected

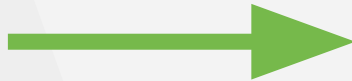
Phase 1 (Example)

Before



“Please list any dietary restrictions.”

After



“Please list any dietary restrictions.”

- Nuts?
- Shellfish?
- Gluten?
- vegetarian/vegan?
- Dairy?
- Kosher?
- Halal?
- other?

Phase 2

Swipe or QR Code System (2-5 year period)

Work with the office of the registrar to use UID's

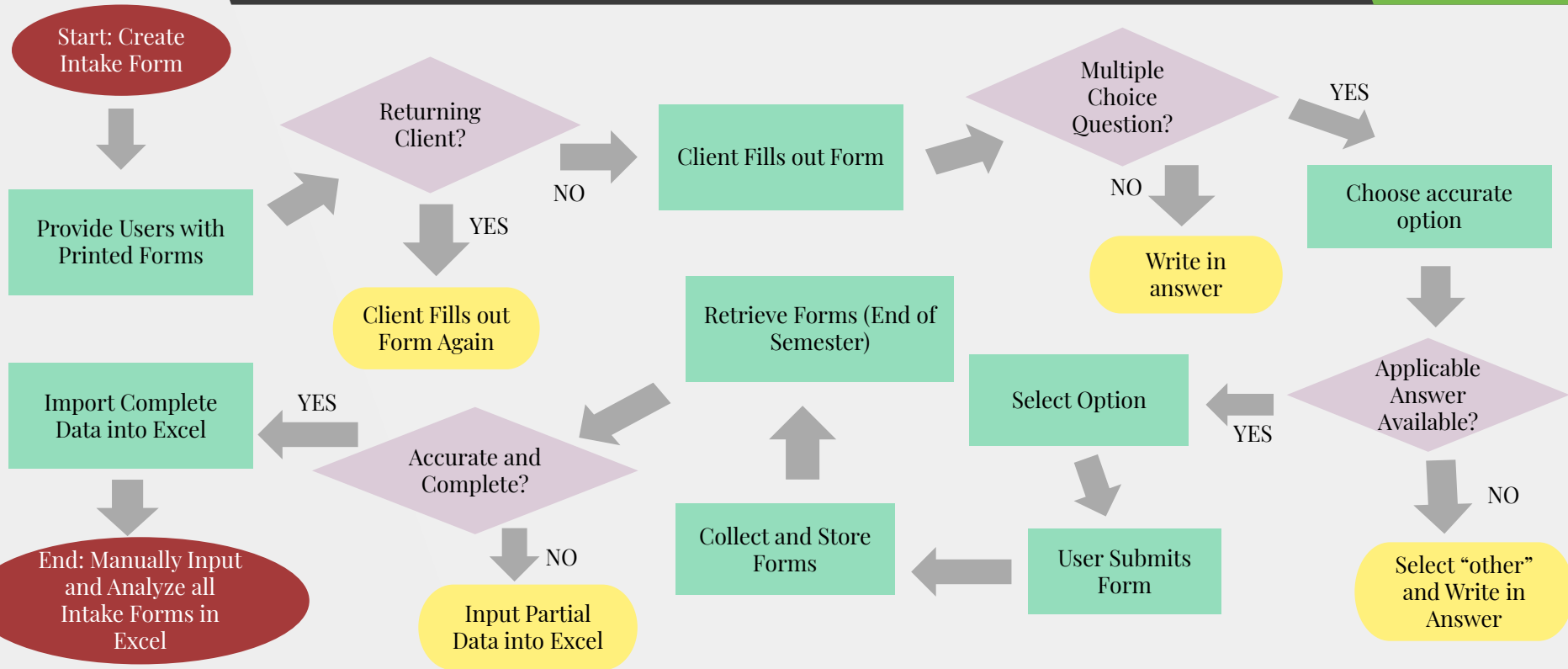
Data security is a major factor: Each user will be identified with a randomly generated ID number or last 4 digits of UID

Save time and improve time-series data

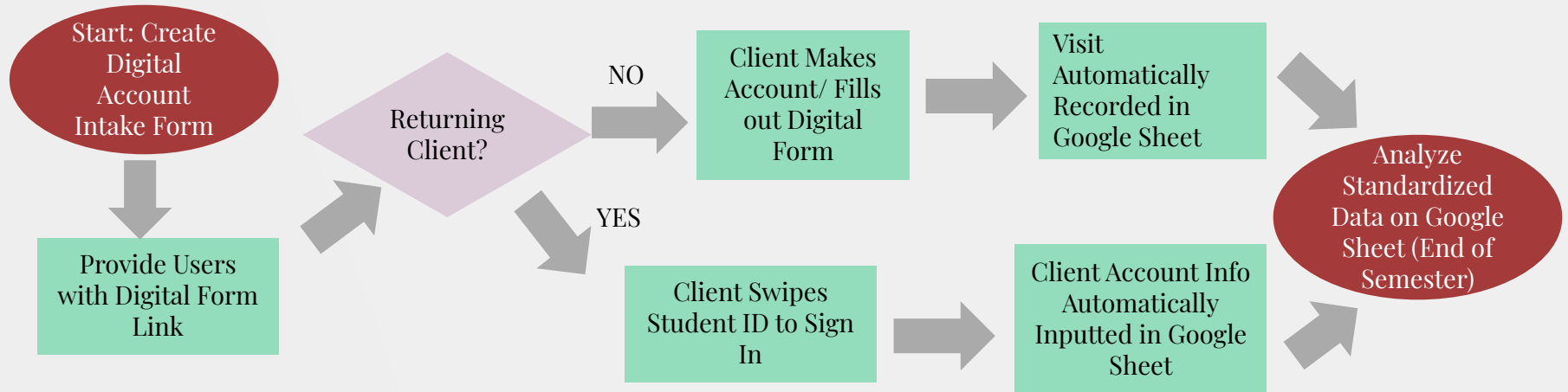
5.

Impact

Impact: User Intake (Current Process)



Impact: User Intake (Ideal Process)





THANK YOU!

Any questions?