

# **CONVERSION OF CONVENTIONAL MESS MEAL MANAGEMENT SYSTEM INTO MODERN SPREADSHEET PROGRAM**



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## **ABSTRACT**

Meal management system is important financial account system to student and worker who eat together on a mess system. Since modern account system like various spreadsheet program available to everyone , can accessible via computer even smartphone . we have to utilize this opportunity . Modern spreadsheet program offer dynamic calculation . Change in one input instantly change other data depend on or related to input data . It also offers security , read only mode only allow change brought by authority but all account visible to everyone . This also ensure transparency. This project use google sheet to implant mess meal management system . and prototype model showed excellent performance , as it successfully shows various important feature in it's dashboard. It help manager to manage and decision making of how can adjust buying good to achieve desire meal rate.

## CHAPTER 1 INTRODUCTION

### 1.1 Introduction:

Mess is a hostel dining area , the term “mess” originally referred to a group of people who ate together in the military. Over time, the word was also used to describe dining areas in other settings, like hostels and colleges. The word “mess” is used to reflect the idea of students eating together and sharing food as part of a larger community. It can also suggest a sense of informality and camaraderie. Overall, the term “mess” has become a familiar and accepted term for a hostel dining area, even though it might seem a bit unusual at first (mitsmile, 2023). The people who ate together in same mess often called mess member.

Mess meal management system is a financial accounting system involve calculating the amount of money mess member provide to mess member and spending of this deposit to various sector of mess work such as buying foods, goods and fuel etc. Conventional mass meal management system generally calculates all deposit and spending monthly a 30/31-day period . All member provides money different day of month , and meal manager spending certain amount of money daily basis , depend on meal count. All deposit and spending calculate end of the month. Meal manager record daily total meal count and at final day whole month or managerial period total meal count is use to divided whole month total spending, this gives cost per meal , since every member meal count varies this cost per meal multiply by their meal count to find out how much cost the member responsible for this managerial period.

The drawback of conventional system is , its hard to find out what would be the final cost per meal at any point of managerial period of time. It would be easy to control spending , if probable cost per meal known at any time of managerial period. There was chance to counterfeit the account system by manager in conventional meal management system .

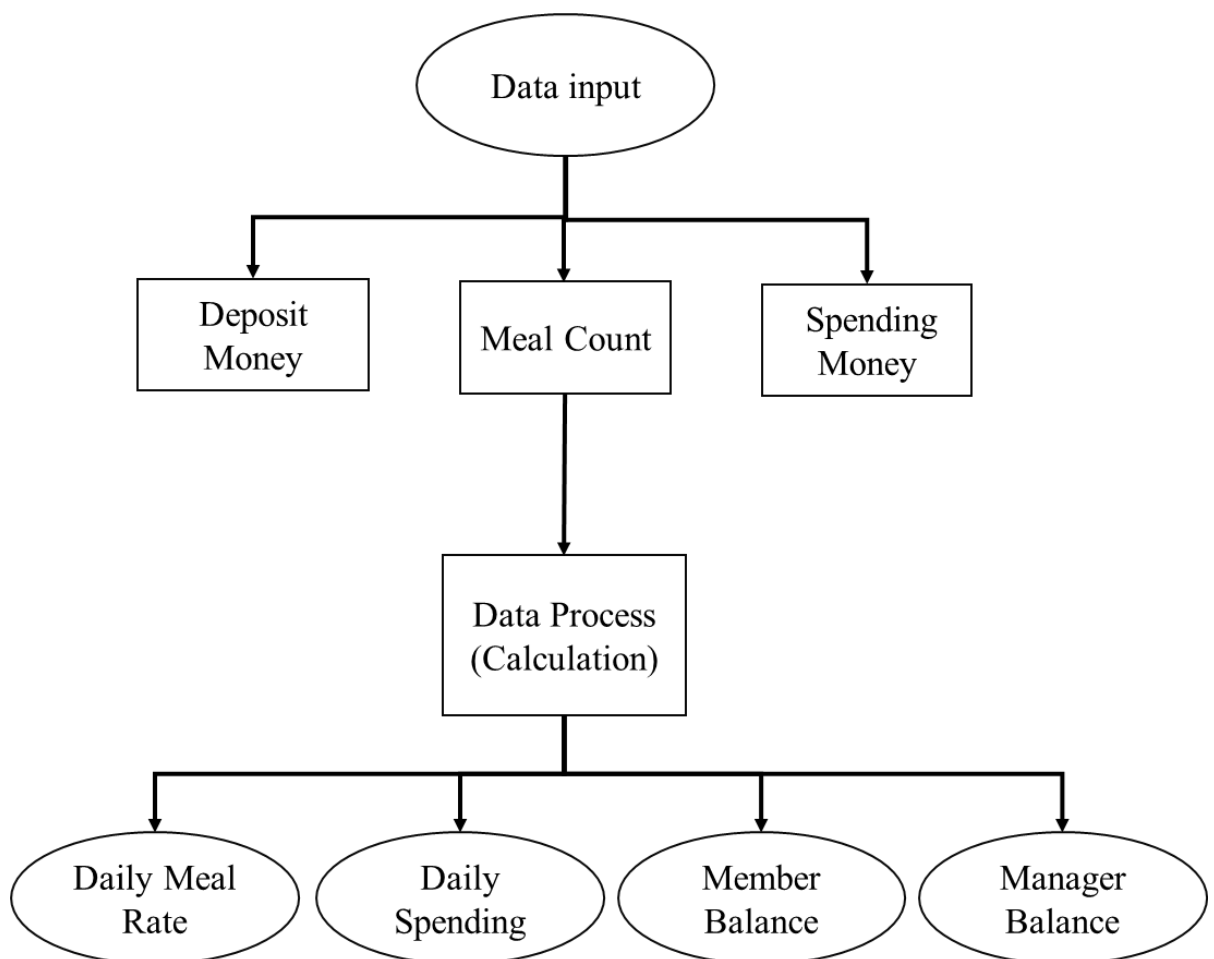
This project aims to use of spreadsheet program for record and mange financial calculation of meal management system.

## CHAPTER 2 MATERIALS AND METHODS

### 2.1 Materials:

This project use Google sheet and Microsoft excel as spreadsheet program for store , calculate view all accounting data regarding meal management system. For area where internet is available prefer use Google sheet, and for area offline prefer use Microsoft excel.

### 2.2 Method:



**Figure 2.1** flow chart of meal management system

### **2.2.1 Meal count:**

Meal count is count of meal a person eat , it records on daily basis general most of mess provide 3 meal each day for one person 1 or half meal for breakfast, one for lunch and one for dinner .

### **2.2.2 Cost per meal:**

Cost per meal is final cost for a single meal , served in managerial period. Its also known as simply “meal rate”. its calculated as,

$$\text{Cost per meal} = \frac{\text{Total Spending in managerial period}}{\text{Total Meal count in managerial period}}$$

### **2.2.3 Manager balance:**

Manager balance is amount of money manager have during his period, calculated as,

$$\text{Manager balance} = \text{Total deposit} - \text{Total Spending}(\text{paid by cash})$$

### **2.2.4 Mess member balance:**

Member balance is a state of account of individual mess member how much he/she deposits in response to his/her total meal cost, calculated as, if the amount is positive thane manager have to paid this extra money to this member from manager account, and if it is negative , this indicates member deposit less money than that of he cost for his total meal consumption , he have to paid this money to manager .

$$\text{Member balance} = \text{Total deposit of member} - (\text{total meal count of member} \times \text{cost per meal})$$

## CHAPTER 3 RESULT AND DISCUSSION

### 3.1 Cost per meal:

The project model tested to a real mess system and found error free calculate average daily meal rate, which is approximately or close to actual meal rate, every calculation found dynamic .

Mess Meal Management System										
Month	summary report									
	March									
ID	1	2	3	4	5	6	7	8	9	10
Members Name	A	B	C	D	E	F	G	H	I	J
Meal Coceded	34	38	39	36	36	36	35	35	36	39
Deposited Money	2000	2500	2300	2500	2800	2100	2900	3500	2500	2200
Balance Status	-618.50	-426.56	-703.57	-272.53	27.47	-672.53	204.49	804.49	-272.53	-803.57
Managarial Period	23									
Average daily Meal	16									
Average daily Cost	1218.84									
Average Cost per Meal	77.01									
Final Meal rate	A/C Not Closed									
Manager	ABID									
Manager Balance	4200									
Shopping Due	8000									

Figure 3.1 Dashboard of prototype google sheet model

Q5																
	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Daily spending								Whole Month Spending							MM/DD/YY
2	Market Interval Days															Account start Date
3	3															03/01/2024
4																Account end Date
5	Date	Marketer1 id	Marketer2 id	Paid	Due	Total spent	Average Cost per day	No	Marketer id	Purpose	Paid	Due	Amount Spent	Account closed(T/F)	FALSE	
6	1 03/01/2024	4	7	2000	1000	3000	1000		1	5 fuel	1500		1500			
7	2 03/04/2024	3	9	1800	1200	3000	1000		2	6 fuel	2000		2000			
8	3 03/07/2024	4	8	2500	1300	3800	1266.666667		3				0			
9	4 03/10/2024	5	3	2700	800	3500	1166.666667		4				0			
10	5 03/13/2024	1	7	2300	600	2900	966.666667		5				0			
11	6 03/16/2024	3	1	2400	900	3300	1100		6				0			
12	7 03/19/2024	8	2	1900	1000	2900	966.666667		7				0			
13	8 03/22/2024	9	4	2000	1200	3200	1066.666667		8				0			
14	9					0	0		9				0			
15	10					0	0		10				0			
16	11					0	0		11				0			
17	12					0	0		12				0			
18	13					0	0		13				0			
19	14					0	0		14				0			
20	15					0	0		15				0			
21	16					0	0		16				0			
22	17					0	0		17				0			
23	18					0	0		18				0			
24	19					0	0		19				0			
25	20					0	0		20				0			
26	21					0	0		21				0			

Figure 3.2 Spending records

## REFERENCES

mitrsmile. (2023, April 19). What is the hostel mess menu? *Mitrsmile*.  
<https://www.mitrsmile.com/what-is-the-hostel-mess-menu/>