



SANJIVANI COLLEGE OF ENGINEERING (AN AUTONOMOUS INSTITUTE)

Department of Computer Engineering

Topic:-Project On

DAIRY MANAGEMENT SYSTEM

oop miniproject

Group No:-07.

Guide by-Prof.B.B.Kotme

PROJECT PROFILE

Project Definition	Dairy Management System
Objective	To Provide Basic Facility Manage Organization Schedule and work.
Project Guide	Prof. B.B. Kotame
Project Duration	7 Days
Submitted To	Department of Computer Science
Developed By	Nabriya Trupti Nale Divyani Nangare Gaurav

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DAIRY MANAGEMENT SYSTEM

INTRODUCTION

- The Dairy Management System is a comprehensive approach to manage the Dairy product collection, making payment, milk collection from members and managing the expenses under one roof.
- The Dairy Management System provides the rate card feature.
- It is a well designed and developed solution for Dairy owners like you to manage all your business processes from a single app.

4 **PROBLEM DEFINITION-**

- Write a menu driven program for Dairy Management System.
- Create a class and declare the variables and member function such as for login,
- Milk deposits, loan, meal etc. Accept the appropriate information from the user and
- Display ratecard with appropriate information. Display all the appropriate meal bills regarding that cattle feed. create a function for loan and accept all the information about loan.
- Calculate interest, EMI, total due etc. and display the bill receipt.
- Use the concept of file handling to store the data permanently into file.

5 ALGORITHM

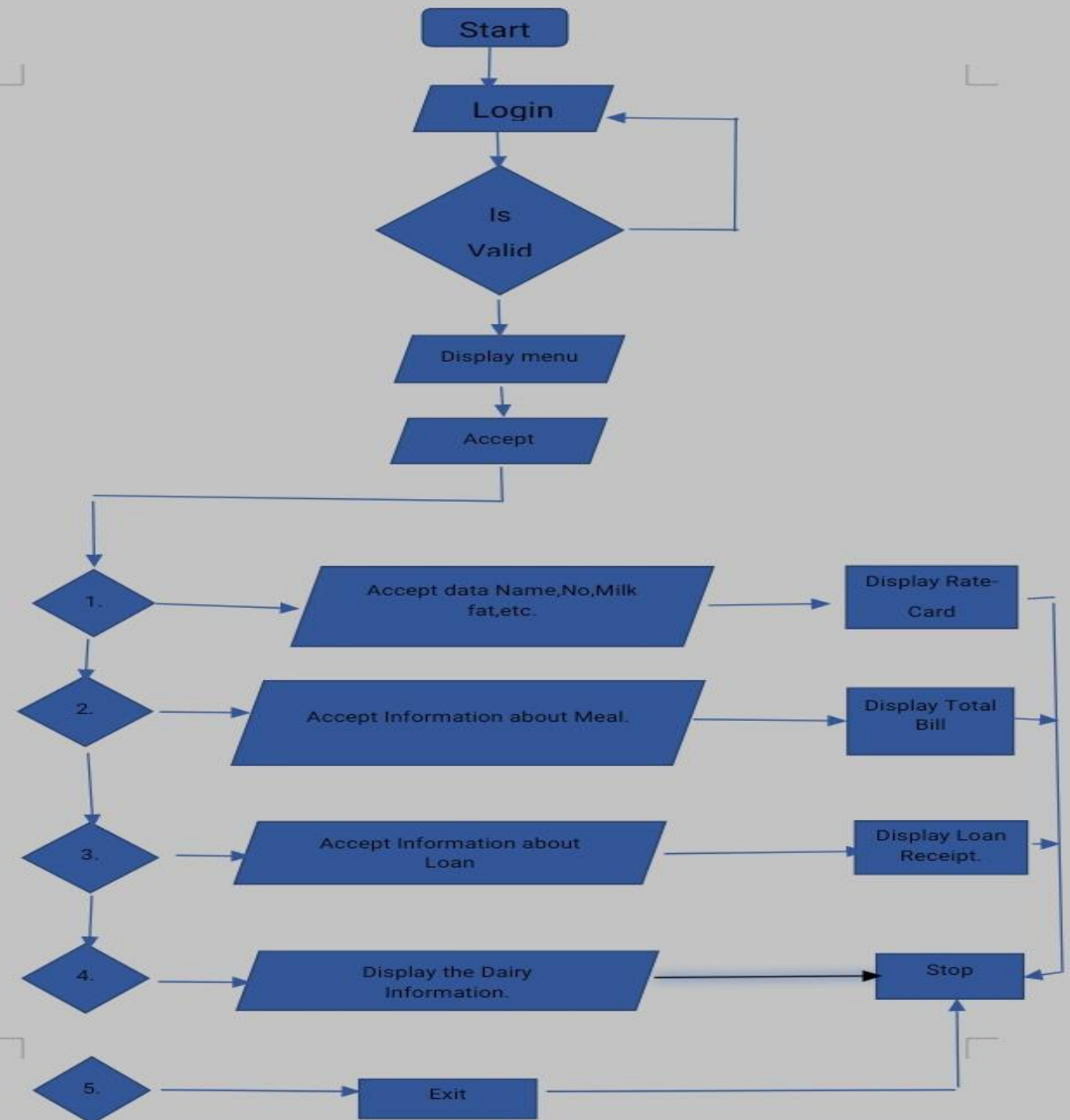
1. Start
2. Define a class.Declare variables.
3. Declare member function .
4. Create a members function for login.
5. If login ,accept the data from the user.
6. Create a file and open it.
7. Write the data into file.
8. Close the file.

6 ALGORITHM -

8. Display the ratecard.
9. Accept the information regarding cattle meal.
10. Display the total bill.
11. Accept the information regarding loan.
12. Calculate interest,EMI,total due.
13. Use file handling to store the data regarding loan.
14. Display the loan receipt.
15. Display information about dairy.
16. Stop.

7

FLOWCHART-



8 IMPORTANT FUNCTIONS AND THEIR OUTPUT-

- 1) login()
- 2) dipositemilk()
- 3) meal()
- 4) loan()
- 5)aboutdairy()

9 LOGINE ()-

```
88 //login function,for entering into Milk dairy system
89 void login()
90 {
91
92     cout << "\n\n\t\t\t|-----LOGIN-----|" << endl;
93     cout << "\n\t\t\t Enter User_name: ";
94     cin >> user;
95     cout << "\n\t\t\t Enter Password[4914]: ";
96     cin >> pass;
97     cout << "\n\t\t\t|-----|" << endl;
98     if (pass == 4914)
99     {
100         system("cls");
101         cout << "\n\tsuccessfully logging";
102         for (int i = 0; i < 10; i++)
103         {
104             cout << ".";
105         }
106     }
107
108 }
109 else
110 {
111     cout << "\nERROR.....! PLEASE CHECK YOUR PASSWORD.";
112     main();
113 }
114 }
115 //deposit_milk function, for deposit todays milk and bill
```

!!Shri Swami Samarth!!

welcome in Prabhat milk dairy [Samarth]

DATE: Wed Nov 16 19:38:29 2022

- 1.Milk
- 2.Animal MEAL
- 3.Apply loan
- 4.About our Dairy
- 5 Logout

Enter option:

10 DEPOSIT_MILK ()-

```
Visual Studio Code
c.cpp - Folder - Visual Studio Code
c.cpp
PROJECT1.txt
c.cpp > deposite_milk()
116 void deposite_milk()
117 {
118     info n;
119     int animal;
120     char back;
121     cout << "\n\n_____ \n";
122     cout << "\n*Enter your Milk animal NO. from below*";
123     cout << "\n\n\t1. BUFFALO |2. COW |\n";
124     cin >> animal;
125     if (animal == 1)
126         cout << "\nYou choose 'BUFFALO' \n";
127     else if (animal != 1 && animal != 2)
128     {
129         cout << "\nError! choose only option [1/2] ..... << endl;
130         system("cls");
131         deposite_milk();
132     }
133     else
134         cout << "\nYou choose 'COW' \n";
135     n.getdata();
136     //cout << "\n\n_____";
137     n.putdata();
138     cout << "\nWant to go back to the Menu [y/n]-";
139     cin >> back;
140     if (back == 'y' || back == 'Y')
141     {
142         menu();
143     }
144     else
145     {
146         deposite_milk();
147     }
148 }
```

|| OUTPUT

```
PROBLEMS 10 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

YOUR BILL-
=====
|          Prabhat milk dairy          |
|
| Name : Samarth      No. - 7          |
|
| Milk session: Morning
|
| Milk : 15 Litre      Fat: 2          |
|
| Fat rate: 12.86      Total: 192.9rs  |
|=====
Want to go back to the Menu [y/n]-|
```

```

192 //function for get animal food/meal
193 void meal()
194 {
195     system("cls");
196     long int prod, how;
197     char go;
198     long int totalval;
199     cout << "\n\t\t\t-- OUR ANIMAL MEAL PRODUCTS --";
200     cout << "\n\t\t\t===== ";
201     cout << "\n\t\t\t 1.Prabhat Animal MEAL           - 1100rs   | ";
202     cout << "\n\t\t\t 2.Indraneel (Hindustan Feeds)    - 1000rs   | ";
203     cout << "\n\t\t\t 3.For growth in Milk-Products    - 350rs   | ";
204     cout << "\n\t\t\t===== ";
205
206     cout << "\n\n\t\tEnter Any Above Option for buying Products: ";
207     cin >> prod;
208
209     switch (prod)
210     {
211     case 1:
212         cout << "\n\n\t\tYou choose - Prabhat Animal MEAL";
213         cout << "\n\n\t\tEnter how many meal you want :- ";
214         cin >> how;
215
216         totalval = 1100 * how;
217
218         cout << "\n\t\tYour Bill-";
219         cout << "\n\t\t\t ____";

```

```

209 switch (prod)
210 {
211     case 1:
212         cout << "\n\n\tYou choose - Prabhat Animal MEAL";
213         cout << "\n\n\tEnter how many meal you want :- ";
214         cin >> how;
215
216         totalval = 1100 * how;
217
218         cout << "\n\tYour Bill-";
219         cout << "\n\t\t ____";
220         cout << "\n\t\t|          PRABHAT MILK DAIRY          |";
221         cout << "\n\n\t\t Product name          Quantity ";
222         cout << "\n\n\t\t * Prabhat Animal MEAL          " << how;
223         cout << "\n\n\t\t Total Bill-" << totalval << "rs";
224         cout << "\n\t\t|____|";
225         break;
226
227     case 2:
228         cout << "\nYou choose - Indraneel(Hindustan Feeds) ";
229         cout << "\n\nEnter how many meal you want :- ";
230         cin >> how;
231
232         totalval = 1000 * how;
233
234         cout << "\n\tYour Bill-";
235         cout << "\n\t\t ____";
236         cout << "\n\t\t|          PRABHAT MILK DAIRY          |";
237         cout << "\n\n\t\t Product name          Quantity ";

```

A close-up, horizontal view of a wooden floor made of light-colored planks with visible grain and knots. The planks are arranged in a parallel pattern, and the lighting highlights the natural texture and color variations of the wood.

I3

```

236     cout << "\n\t\t|          PRABHAT MILK DAIRY          |";
237     cout << "\n\n\t\t Product name          Quantity  ";
238     cout << "\n\n\t\t *Indraneel(Hindustan Feeds)      " << how;
239     cout << "\n\n\t\t          Total Bill-" << totalval << "rs";
240     cout << "\n\t\t|_____|";
241     break;
242
243     case 3:
244         cout << "\nYou choose - Milk growth products ";
245         cout << "\n\nEnter how many meal you want :- ";
246         cin >> how;
247
248         totalval = 350 * how;
249
250         cout << "\n\tYour Bill-";
251         cout << "\n\t\t|_____|";
252         cout << "\n\t\t|          PRABHAT MILK DAIRY          |";
253         cout << "\n\n\t\t Product name          Quantity  ";
254         cout << "\n\n\t\t *growth in Milk-Product      " << how;
255         cout << "\n\n\t\t          Total Bill-" << totalval << "rs";
256         cout << "\n\t\t|_____|";
257         break;
258
259     default:
260         cout << "\n\t\tPlz Enter option between 1 to 3";
261
262         meal();
263         break;
264 }

```

```

-- OUR ANIMAL MEAL PRODUCTS --
=====
| 1.Prabhat Animal MEAL          - 1100rs |
| 2.Indraneel (Hindustan Feeds)  - 1000rs |
| 3.For growth in Milk-Products  - 350rs  |
=====

```

*Enter Any Above Option for buying Products: 1

You choose - Prabhat Animal MEAL

Enter how many meal you want :- 2

Your Bill-

```

|-----|
|          PRABHAT MILK DAIRY          |
|
| Product name          Quantity
|
| * Prabhat Animal MEAL      2
|
|          Total Bill-2200rs
|-----|

```

Want to go back to the main menu [y/n] : █

14 PROGRAM FOR APPLYING LOAN

```
274 //function for get loan
275 void loan()
276 {
277     char Name[50];
278     int loanopt;
279     long long int principal, tenure, emi;
280     long long int interest, totaldue;
281     char goback;
282     system("cls");
283
284     cout << "\n\t\t *our dairy provide the personal loan upto 1000000*";
285     cout<<"\n\t\t The interest rate is 7%";
286     cout<<"\n\nEnter your name without space:";
287     cin>>Name;
288     cout << "\n\nEnter loan amount: ";
289     cin >> principal;
290     if (principal > 1000000)
291     {
292         cout << "\n\t\tError!..Maximum amount of loan is 10,00,000 rs";
293
294         loan();
295     }
296     else
297     {
298         cout << "\nEnter tenure(in years): ";
299         cin >> tenure;
```

```
297     else
298     {
299         cout << "\nEnter tenure(in years): ";
300         cin >> tenure;
301
302         interest = (principal * 12 * tenure) / 100;
303         totaldue = principal + interest;
304         emi = totaldue / (tenure * 12);
305
306         cout << "\n\tYour Loan receipt-";
307         cout << "\n\t\t_____";
308         cout << "\n\t\t|          --PRABHAT MILK DAIRY--          |";
309         cout << "\n\n\t\t Name:          - " << Name;
310         cout << "\n\n\t\t Home loan[on 12%] -" << principal << "rs";
311         cout << "\n\n\t\t Interest          -" << interest << "rs";
312         cout << "\n\n\t\t Total loan due      -" << totaldue << "rs";
313         cout << "\n\n\t\t YOUR EMI -" << emi << "rs";
314         cout << "\n\t\t|_____|";
315     }
316
317     cout << "\n\nWant to go back to the main menu [y/n] : ";
318     cin >> goback;
319
320     if (goback == 'y' || goback == 'Y')
321         menu();
322     else
323         loan();
324 }
325 }
```

I5 OUTPUT

```
*our dairy provide the personal loan upto 1000000*
The interest rate is 7%

*our dairy provide the personal loan upto 1000000*
The interest rate is 7%

Enter your name without space:Samarth

Enter loan amount: 100000

Enter tenure(in years): 3

Your Loan receipt-

|-----|
|      --PRABHAT MILK DAIRY--      |
|      Name:          - Samarth      |
|      Home loan[on 12%] -100000rs    |
|      Interest        -36000rs      |
|      Total loan due   -136000rs     |
|                                     |
|                                     |
|      YOUR EMI -3777rs              |
|-----|
```

I6 ABOUT_DAIRY()-OUTPUT

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER

**Welcome In Prabhat Milk Dairy [ Samarth ]**

Establishment date:13/11/2021

Thank's for visiting our dairy,Prabhat milk dairy was established on
13 November 2021. in our dairy, all new technology devices
are present to make customers easy to deposit their animal milk
and all other work. here you can get lots of benefits in any festival
like Diwali bonus, or Ganesh Chaturthi bonus.

we also arrange a trip for our associate 2 times yearly for free.
Our loan rate is also less than others. here you can get up to 10
lakh loan at a time with less loan rate. we can due different types
of loan like for home, you can get our home loan plan [rate-12%], for
buying vehicle [loan rate-10%] and for agriculture [loan rate 7%]
only. you can also get other benefits, for that make associate
of our milk dairy if you are not yet.

Thank you | Keep visiting

PRABHAT MILK DAIRY..
|_____|

Back to the Menu [y/n]- |
```


I 5.TEST CASE-(TESTING)

TC- I D	Test Description	Expected Result	Actual Result	Remark
TC- 01	User login	User should be able to login	User is able to login	Pass
TC- 02	Invalid Name	System will not accept The Invalid name.	Invalid name is not accepted By System.	Pass
TC- 03	Data input	Data should be accepted	Data is accepted	Pass
TC- 04	Invalid loan amount	System will not allow Invalid amount.it will show error.	System show error.	Pass
TC -05	Information Display	All the information should be display accordingly	All information is displayed according to the choice.	Pass

18 FEATURE USE-

- In this program we tried to solve the problem of the Dairy regarding the milk Management along with loan as well as bill records.
- The Dairy Management System provides rate card features .
- You can get day to day update of your dairy farm.
- All information can be accessed at any time anywhere.

19 DISADVANTAGE -

1. knowledge about computers.
2. Useful for only literate people.
3. Not useful for every farmer/member.
4. A good internet connection is required. Without the internet, dairy work has been stopped.

20 CONCLUSION -

- In this program we tried to solve the problem of the Dairy regarding the milk Management along with loan as well as bill records.

It is a well designed and developed solution for Dairy owners like you to manage all your business processes from a single app.

21 REFERENCES-

- <https://www.geeksforgeeks.org/>
- <https://www.techpathway.com/dairy-management-system>
- <https://troy-walter.medium.com/dairy-management-system-features-benefits-and-useful-panels>
- <https://stackoverflow.com/questions/43091950/show-current-time-on-output-window>.
- Class notes.

Thank you

