ONLINE MESS BILLING SYSTEM

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Course:

CSC-102 Programming Fundamentals

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Contents

ShortDescription of project:

An online mess billing system is indeed a great solution to address the challenges faced in hostels or hotels with crowded mess areas. Here are some of the benefits and features of such a system:

1. **Efficient Attendance Management:** Hostellites can mark their attendance online, saving time and effort. Mess managers can access real-time attendance records, reducing the chances of fraud.

2. **Convenience for Users**: Hostellites can mark their attendance remotely through a mobile app or a web portal. Users can check their attendance status and meal history online.

3. **Fraud Prevention**: The system can implement security features to prevent fraud, such as unique logins and verification methods. It can also track unusual attendance patterns and alert administrators to potential issues.

4. **Automated Billing**: The system can calculate bills automatically based on the user's meal attendance and the meal plan they've subscribed to. Users can view their bills and payment history online.

5. **Record Keeping**: All attendance and billing records are stored electronically, making it easier to track and manage data. Mess managers can generate reports for audits and analysis.

6. **Reduced Queues and Wait Times**: With online attendance marking, there is less congestion and waiting in the mess area.

7. **Customization**: The system can be customized to accommodate different meal plans and pricing structures. It can also integrate with existing hostel or hotel management software.

8. **Notifications**: Users can receive notifications for important updates, such as bill generation and payment deadlines.

9. **Feedback Mechanism**: Users can provide feedback on the quality of meals and service, helping the management improve the mess.

10. **Cost Savings**: The system can reduce the need for physical record-keeping and manual data entry, saving time and resources.

Users of Application (minimum 2 users for project)

1.Customers or clients: For a mess billing system, the end-users who purchase or use the product are considered the main users called as customers or clients

2.Admins: Who specifically control what the clients or Employees will access the meal through online attendance system.

Functional Requirements

ADMIN:	1.Add products	Products could be added
	2.Apply discount	Discount is applied on the basis of the demand.the lower the demand, the higher the discount.
	3.Add price	Price of the meal will be set on the basis of quantity.
	4.update meals	New meals could be added through this command
	5.delete meals	Unavailable meals could be deleted.
	6.customers	The list of customers could be checked.
	7.Billing system record	Record of the bills could be calculated on monthly basis as well as on daily basis.
	8.Attendance marking	Attendance of customers will be marked on daily basis which will show that how often a person has visited the mess.

USER:	1.See meals	a customer could review the prices of the products.
	2.see bills	bills could be seen on daily basis and on monthly basis
	3.Give feedback	Customer can give feedback about a particular product.
	4.online attendance	Online attendance could be marked by the customer.

Wireframes

Login page


```
1.VIEW ALL MEALS
2.ADD NEW MEALS
3.SET PRICES OF MEAL
4.APPLY DISCOUNT
5.DELETE PRODUCT
6.CUSTOMERS
7.ONLINE ATTENDANCE MARKING
8.FEEDBACKS
9.BILLS CALCULATION
10.LOG OUT
```

Home page for admin


```
1.VIEW ALL MEALS
2.YOUR PROFILE
3.CHECK PRICES OF MEAL
4.CHECK DISCOUNT DEALS
5.UPCOMING MEALS
6.CUSTOMER RECORD
7.ONLINE ATTENDANCE MARKING
8.FEEDBACKS
9.BILLS CALCULATION
10.LOG OUT
```

Home page for user

```
BILL CALCULATION
                        .
                    +@%*=:
                  *@%###%@#+-.
                .%*=*#@@@@%%%%*=:
               :%+--=--=+%%%%%%@%%*=:
              =@#==:--==:-:-+*%@@%###%*.
             +####%%#+=-==.-=-:.:=*%@%%%*
           .*####***#%%#+-=-:--.:...:#%+
          :##*##*#*##**+*#%#++.-:. +%+
         =#%#%#*#%%#**********#%#+:*%=
        +####**##%**#%%*##*#*+++*#%-
       .**###**###*##%#*#*%********#:
      -#***#+*##%*#*#*+#%%++*##**#.
     =#*+**+*%##+*##*#*#*++%#%=**
    +###**+%##++##%+***#=#*#*=*+
   #*##%#+*##**##*=+###=****=#=
   :+#*+=***+##**+#*#=-*#%*=#-
    :+#*+=+#%*+***==#%#==#.
     .=**+=-***=+#*%++*.
      :+**+--+%%=*+
       .-+**+-==
          :=:
-----------------------------------------------------
1.CHECK YOUR MONTHLY BILL:
2.CHECK YOUR DAILY BILL:
Enter your option.(Enter '1' or '2')
 1
```

Bill calculation (checked by the user)

```
 MEALS AVAILABLE

:----:    what you want?

.    .:     1.BREAKFAST
::.   :     2.LUNCH
.:-   :     3.DINNER

.:-==: ENTER YOUR OPTION HERE :1
```

Available meals (checked by the user)

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```
### ###   ### ###   ### ###   ### ##    ### ##      ##        ## ##    ## ###    ## ##
 ## ##     ## ##     ## ##     ## ##     ## ##       ##        ## ##    ## ##    ##   ##
 ##        ##        ##        ## ##     ## ##     ## ##       ## ##    ####
 ## ##     ## ##     ## ##     ## ##     ## ##     ## ##  ##   ## ##    #####
 ##        ##        ##        ## ##     ## ###    ##        ## ###      ###
 ##        ## ##     ## ##     ## ##     ## ##  ##    ## ##  ## ##    ##   ##
####       ### ###   ### ###   ### ##    ### ##    ### ##    ## ##    ## ###    ## ##
WE WILL LOVE TO GET YOUR FEEDBACKS
WRITE YOUR EXPERIENCE HERE:
```

Feedbacks

```
        LIST Of MEALS(PRICE FOR ONE SERVING)
:....:.......................:...........................:
-...=..............=.....................................:
:    - FRIED CHICKEN        300PKR     -                 :
-...=..............=.....................................:
-...=..............=.....................................:
-...=..............=.....................................:
:    -  OMELETE            -     50PKR                   :
-...=..............=.....................................:
-...=..............=.....................................:
-...=..............=.....................................:
:    -   KABAB            -       100PKR                 :
-...=..............=.....................................:
-...=..............=.....................................:
-...=..............=.....................................:
:    -   PIZZA            -       800PKR                 :
-...=..............=.....................................:
-...=..............=.....................................:
-...=..............=.....................................:
:    -    FISH            -       100PKR                 :
-...=..............=.....................................:
-...=..............=.....................................:
-...=..............=.....................................:
:    -    STEAK           -       300PKR                 :
-...=..............=.....................................:
-...=..............=.....................................:
-...=..............=.....................................:
:    -    RICE            -       150PKR                 :
-...=..............=.....................................:
.........................................................
SELECT YOUR FOOD ITEM HERE(write its name): STEAK
```

List of Meals