COIMBATORE INSTITUTE OF TECHNOLOGY

CIVIL AERODROME POST,
COIMBATORE, TAMILNADU,
INDIA – 641 014

COURSE   : MSc. DATA SCIENCE   (2ND YEAR)
SEMESTER   : SEMESTER 3
EXAM   : CAT 2 - DBMS PROJECT
SUBJECT   : DBMS LABORATORY (16 MDS 37)
SUBMITTED ON   : 09-11-2020

E - Milk Service

DONE BY:

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ABSTRACT

- The main objective of this project is to find an innovative solution to bridge the gap between the milk vendors and the customers.
- The main focus is to create a system which can be used by both customers and vendors to effectively calculate bills and also give choices in the types of products.
- There will be a manager to manage both the sides and do the necessary operations.

PROJECT DESCRIPTION

➤ **E - milk service system is a dairy software to manage the production and selling of milk to the respective customers.**

➤ **It can help to make day-to-day dairy related activities easier.**

➤ **It is plays the role of a middle-man between vendors and customers**

➤ **The customer can view the bill of their order**
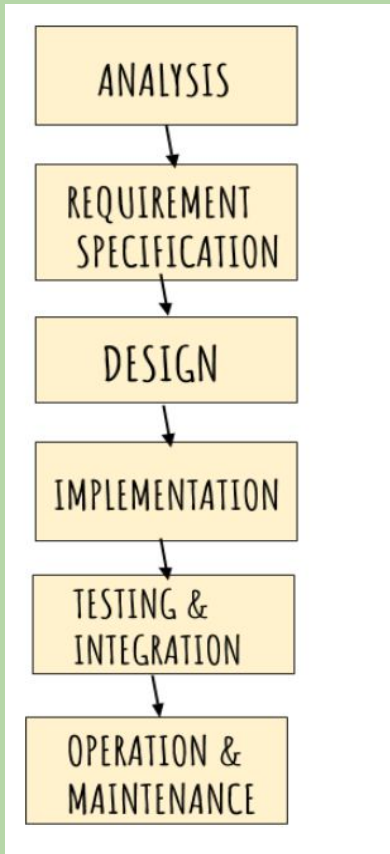
SOFTWARE REQUIREMENTS

- **DJANGO PYTHON (FRONT END)**

- **TEMPLATES (TEMPLATE)**

- **SQLITE (BACKEND)**

- **WEB BROWSER (CHROME/INTERNET EXPLORER)**

- **OS (WINDOWS)**

OUR APPROACH

ANALYSIS

↓

REQUIREMENT SPECIFICATION

↓

DESIGN

↓

IMPLEMENTATION

↓

TESTING & INTEGRATION

↓

OPERATION & MAINTENANCE

MODULES

➤ **Manager**
  → **Login**
  → **Password reset**

➤ **Vendor**
  → **Add milk category**
  → **Bill Calculation**
  → **Password reset**
  → **Delete milk category**

MODULES

➻ **Customer**
  → **Login**
  → **View bill**
  → **Choose milk category**
  → **Password reset**
  → **Delete milk category**

SAMPLE CODE

CODE SPLIT UPS

> templates
  > Customers
    <> Add_Customer.html
    <> Customer_detail.html
    <> customer_ledger.html
    <> customer_milk_category.html
    <> customer.html
  > registration
    <> login.html
    <> password_change_done.html
    <> password_change_form.html
    <> password_reset_complete.html
    <> password_reset_confirm.html
    <> password_reset_done.html
    <> password_reset_email.html
    <> password_reset_form.html
    ≡ password_reset_subject.txt
    <> signup.html
  > vendor
    <> addvendor.html
    <> allvendor.html
    <> milkcategoryform.html
    <> vendorledger.html
  <> base.html

TEMPLATES
(Done using html)
- **Customers**
- **Vendor**
- **Registration**

```
1    {% extends 'base.html' %}
2    {% load crispy_forms_tags %}
3
4
5    {% block content %}
6    <style>
7        #back{
8            background-image: linear-gradient(to top, ⬜#d5d4d0 0%, ⬜#d5d4d0 1%, ⬜#eeeeec 31%, ⬜#efeeec 75
9        }
10
11   </style>
12
13   <div class="row justify-content-center">
14    <div class="col-10">
15        <div id="back" class="card">
16            <div class="card-body">
17                <h2 class="mb-4">Add User(Customer/Manager/Vendor)</h2>
18   <form method="POST" novalidate>
19        {% csrf_token %}
20
21     <div class="form-row">
22            <div class="form-group col-md-4">
23                {{ form.user|as_crispy_field }}
24            </div>
25
26            <div class="form-group col-md-4">
27            {{ form.user_type|as_crispy_field }}
28              </div>
29
30            <div class="form-group col-md-4">
31                {{ form.contact_number|as_crispy_field }}
32              </div>
```
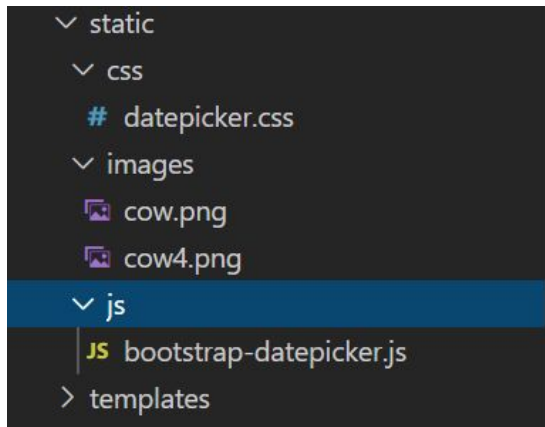
```python
     Set as interpreter
1    #!/usr/bin/env python
2    import os
3    import sys
4
5    if __name__ == '__main__':
6        os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'MyDairy.settings')
7        try:
8            from django.core.management import execute_from_command_line
9        except ImportError as exc:
10           raise ImportError(
11               "Couldn't import Django. Are you sure it's installed and "
12                                                    riable? Did you "
     def execute_from_command_line(argv: List[str]=...)
13
14   Run a ManagementUtility.
15   execute_from_command_line(sys.argv)
16
```

JavaScript used for Date Picker.


```
∨ static
  ∨ css
    # datepicker.css
  ∨ images
    cow.png
    cow4.png
  ∨ js
    JS bootstrap-datepicker.js
  > templates
```

```css
 9    */
10  ∨ .datepicker {
11      top: 0;
12      left: 0;
13      padding: 4px;
14      margin-top: 1px;
15      -webkit-border-radius: 4px;
16      -moz-border-radius: 4px;
17      border-radius: 4px;
18  ∨ /*.dow {
19      border-top: 1px solid #ddd !important;
20      }*/
21    }
22  ∨ .datepicker:before {
23      content: '';
24      display: inline-block;
25      border-left: 7px solid transparent;
26      border-right: 7px solid transparent;
27      border-bottom: 7px solid #ccc;
28      border-bottom-color: rgba(0, 0, 0, 0.2);
29      position: absolute;
30      top: -7px;
31      left: 6px;
32    }
33  ∨ .datepicker:after {
34      content: '';
35      display: inline-block;
36      border-left: 6px solid transparent;
37      border-right: 6px solid transparent;
38      border-bottom: 6px solid #ffffff;
39      position: absolute;
40      top: -6px;
```

```css
41      left: 7px;
42    }
43    .datepicker > div {
44    display: none;
45    }
46    .datepicker table {
47    width: 100%;
48    margin: 0;
49    }
50    .datepicker td, .datepicker th {
51    text-align: center;
52    width: 20px;
53    height: 20px;
54    -webkit-border-radius: 4px;
55    -moz-border-radius: 4px;
56    border-radius: 4px;
57    }
58    .datepicker td.day:hover {
59    background: #eeeeee;
60    cursor: pointer;
61    }
62    .datepicker td.old, .datepicker td.new {
63    color: #999999;
64    }
65    .datepicker td.active, .datepicker td.active:hover {
66    background-color: #006dcc;
67    background-image: -moz-linear-gradient(top, #0088cc, #0044cc);
68    background-image: -ms-linear-gradient(top, #0088cc, #0044cc);
69    background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#0088cc), to(#0044cc));
70    background-image: -webkit-linear-gradient(top, #0088cc, #0044cc);
71    background-image: -o-linear-gradient(top, #0088cc, #0044cc);
72    background-image: linear-gradient(top, #0088cc, #0044cc);
```

U R L' S

```python
15    """
16    from django.conf import settings
17    from django.conf.urls.static import static
18    from django.contrib import admin
19    from django.urls import include,path
20    from dairyapp import views
21
22    urlpatterns = [
23            path('', views.home, name='home'),
24            path('signup/', views.signup, name='signup'),
25            path('addcustomer/',views.addcustomer,name='addcustomer'),
26            path('allcustomer/',views.allcustomer,name='allcustomer'),
27            path('Customer_page/',views.Customer_page,name='Customer_page'),
28            path('customer_ledger_save/', views.customer_ledger_save, name='customer_ledger_save'),
29            path('customer_ledger_delete/',views.customer_ledger_delete,name='customer_ledger_delete'),
30            path('customer_milk_category/',views.customer_milk_category,name='customer_milk_category'),
31            path('customer_ledger/<int:pk>/', views.customer_ledger, name='customer_ledger'),
32            path('allvendor/', views.allvendor, name='allvendor'),
33            path('addvendor/', views.addvendor, name='addvendor'),
34            path('add_milk_category/',views.add_milk_category, name='add_milk_category'),
35            path('ledger_save/',views.ledger_save,name='ledger_save'),
36            path('ledger_delete/',views.ledger_delete,name='ledger_delete'),
37            path('ledger/<int:pk>/', views.ledger, name='ledger'),
38
39            path('accounts/',include('django.contrib.auth.urls')),
40            path('admin/', admin.site.urls),
41    ]
42    if settings.DEBUG == True or settings.DEBUG == False:
43        urlpatterns += static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)
44        urlpatterns += static(settings.STATIC_URL, document_root=settings.STATIC_ROOT)
```

DAIRY-MANAGEMENT-SYSTEM-NEWDAIRY

- migrations
  - __pycache__
  - __init__.py
  - 0001_initial.py
  - 0002_animalcategory_related_ve...
  - 0003_remove_vendorledger_milk...
  - 0004_auto_20190303_1521.py
  - 0005_auto_20190303_1529.py
  - 0006_auto_20190303_1603.py
  - 0007_auto_20190303_1612.py
  - 0008_auto_20190303_1614.py
  - 0009_auto_20190303_2047.py
  - 0010_auto_20190303_2210.py
  - 0011_auto_20190305_2218.py
  - 0012_vendorledger_related_milk...
  - 0013_auto_20200519_1538.py
- templatetags
  - __pycache__
  - __init__.py
  - custom_tags.py
- __init__.py
- admin.py
- apps.py
- forms.py
- models.py
- views.py

dairyapp

- __pycache__
- migrations
  - __pycache__
    - __init__.cpython-39.pyc
    - 0001_initial.cpython-39.pyc
    - 0002_animalcategory_related_v...
    - 0003_remove_vendorledger_mi...
    - 0004_auto_20190303_1521.cpy...
    - 0005_auto_20190303_1529.cpy...
    - 0006_auto_20190303_1603.cpy...
    - 0007_auto_20190303_1612.cpy...
    - 0008_auto_20190303_1614.cpy...
    - 0009_auto_20190303_2047.cpy...
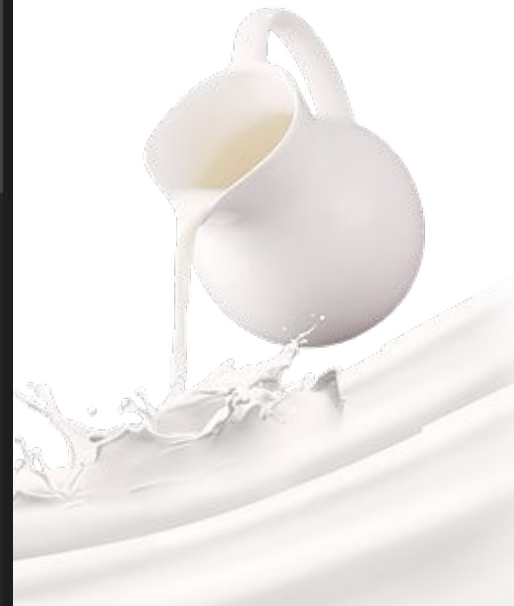   - 0010_auto_20190303_2210.cpy...
    - 0011_auto_20190305_2218.cpy...
    - 0012_vendorledger_related_mil...
    - 0013_auto_20200519_1538.cpy...
  - __init__.py
  - 0001_initial.py
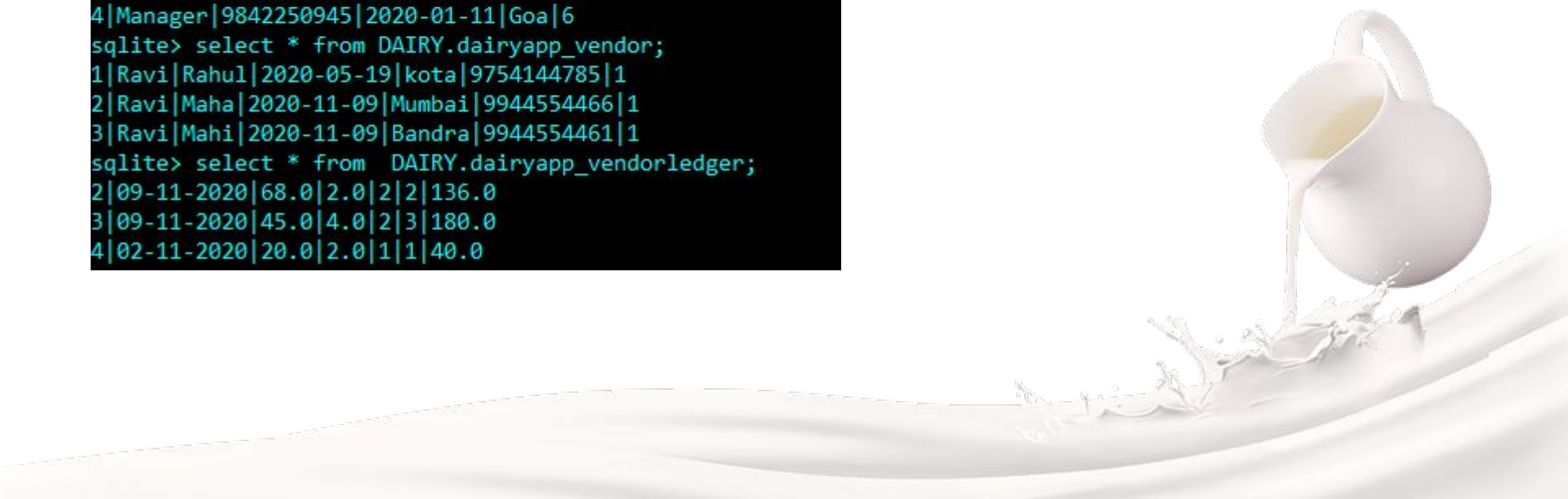
DATABASE

```
sqlite> .tables
DAIRY.auth_group                    DAIRY.dairyapp_milkcategory
DAIRY.auth_group_permissions        DAIRY.dairyapp_profile
DAIRY.auth_permission               DAIRY.dairyapp_vendor
DAIRY.auth_user                     DAIRY.dairyapp_vendorledger
DAIRY.auth_user_groups              DAIRY.django_admin_log
DAIRY.auth_user_user_permissions    DAIRY.django_content_type
DAIRY.dairyapp_customerledger       DAIRY.django_migrations
DAIRY.dairyapp_customermilkcategory DAIRY.django_session
```

```
95   # Database
96   # https://docs.djangoproject.com/en/2.1/ref/settings/#databases
97   DATABASES = {
98       'default': {
99           'ENGINE': 'django.db.backends.sqlite3',
100          'NAME': os.path.join(BASE_DIR, 'db.sqlite3'),
101      }
102  }
```

```
sqlite> select * from  DAIRY.dairyapp_milkcategory;
1|Cow|1|20.0
2|Buffaloe|2|68.0
3|Cow|2|45.0
4|Others|3|123.0
5|Buffaloe|3|68.0
sqlite> select * from DAIRY.dairyapp_profile;
1|Manager|9785255135|2020-05-19|kota|2
2|Customer|9754122478|2020-05-19|kota|3
3|Customer|9842250949|2020-09-11|Pune|5
4|Manager|9842250945|2020-01-11|Goa|6
sqlite> select * from DAIRY.dairyapp_vendor;
1|Ravi|Rahul|2020-05-19|kota|9754144785|1
2|Ravi|Maha|2020-11-09|Mumbai|9944554466|1
3|Ravi|Mahi|2020-11-09|Bandra|9944554461|1
sqlite> select * from  DAIRY.dairyapp_vendorledger;
2|09-11-2020|68.0|2.0|2|2|136.0
3|09-11-2020|45.0|4.0|2|3|180.0
4|02-11-2020|20.0|2.0|1|1|40.0
```

```
sqlite> select * from DAIRY.auth_user;
1|pbkdf2_sha256$100000$C9ScqTmgfer0$rCr9dp3VsOvw/RrYoXZswsq3XQUYVonegpAXUX8D4/A=|2020-05-19 11:09:21.309895|1|admin||admin@example.com|1|1|2020-05-19 10:10:03|
2|pbkdf2_sha256$100000$iuZtxePwoTU3$mB91jMpPzHvNwYfmQY6kI1bjKugfZ4h9LZ91QECR/WQ=|2020-11-09 06:52:38.999255|0|Ravi|Ravi|ravi@gmail.com|0|1|2020-05-19 10:11:54|Sharma
3|pbkdf2_sha256$100000$Jy3TyONoOJDB$GPQnElCOrGR5Wz5nbzt8mevz7CY3OI13yIffPRPXCtI=||0|Rakesh|rakesh|rakesh@gmail.com|0|1|2020-05-19 10:13:39.526378|verma
4|pbkdf2_sha256$100000$NbZPKZBPWtOl$x8Bk85tdZ+e1TqIbpk+15Y790z/CtAwua8FtDTnhA5o=|2020-11-09 06:22:29.237803|1|ritik||ritikasatheesh@gmail.com|1|1|2020-11-09 06:11:33.829132|
5|pbkdf2_sha256$100000$760JqBAAnd5s$p4yXgqnVnMx6BOqA/EZSCu9Hx1qI/38+ERfbhiMkET4=|2020-11-09 06:54:18.315329|0|vandana|Vandana|van@gmail.com|0|1|2020-11-09 06:20:00.165269|A
6|pbkdf2_sha256$100000$AITpw0aYb7o3$o1rEpONPiQzdTLoNfZOZzgwAJ3KdNxtC/SqtumZf7TI=|2020-11-09 06:50:23.731999|0|prani|Pranitaa|prani@gmail.com|0|1|2020-11-09 06:42:12.063344|A
sqlite> select * from DAIRY.dairyapp_customerledger;
1|19-05-2020|20.0|2.0|40.0|3|1
2|09-11-2020|45.0|4.0|180.0|5|2
3|09-11-2020|35.0|2.0|70.0|5|3
4|10-11-2020|34.0|4.0|136.0|3|5
sqlite> select * from DAIRY.dairyapp_customermilkcategory;
1|Cow|20.0|3
2|Buffaloe|45.0|5
3|Cow|35.0|5
4|Cow|98.0|5
5|Cow|34.0|3
```

SAMPLE OUTPUT

```
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ritik\OneDrive\Desktop\SEM 3\LAB - DBMS\Dairy-Management-System-newdairy> cd MyDairy
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, dairyapp, sessions
Running migrations:
  No migrations to apply.
PS C:\Users\ritik\OneDrive\Desktop\SEM 3\LAB - DBMS\Dairy-Management-System-newdairy\MyDairy> python manage.py createsuperuser
Username: Maha
Email address: maha@gmail.com
Password:
Password (again):
Superuser created successfully.
PS C:\Users\ritik\OneDrive\Desktop\SEM 3\LAB - DBMS\Dairy-Management-System-newdairy\MyDairy> python manage.py runserver
Performing system checks...

System check identified no issues (0 silenced).
November 09, 2020 - 23:23:01
Django version 2.0.13, using settings 'MyDairy.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

127.0.0.1:8000

Home

Log in

Milkman

E milk service

About Us

50 years back, life was very simple. We used to have a cow in our backyard that gave us natural and fresh milk everyday. There was never a need to worry about adulteration since we owned the animal. Today, the milk we consume is either reconstituted/recombined with milk powder or takes days to reach our home post milking which is prone to adulteration.

Started in 2015, Milkman aims to bring back the basics of Milk. We

Home

Milkman

E milk service

never a need to worry about adulteration since we owned the animal. Today, the milk we consume is either reconstituted/recombined with milk powder or takes days to reach our home post milking which is prone to adulteration.

Started in 2015, Milkman aims to bring back the basics of Milk. We promise natural, fresh and unadulterated milk directly to the doorstep of the consumer. Consumer ordering and servicing happens through a website that completely takes away the hassle of managing ones milk requirements.

Log in

Username

Ravi

Password

••••••••

Log in

Milkman

E milk service

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1

Manager Ravi ▾

⚙ Change password

➡ Log out

2

Change Password

Old password

●●●●●●●●●

New password

●●●●●●●●●

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

New password confirmation

●●●●●●●●●

Change Password

3

Change password

Password changed with success!

Add Customer

Username

Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

First name

Last name

Email

Required. Inform a valid email address.

Password

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

Password confirmation

Enter the same password as before, for verification.

Save

Add Customer

Username

ritika

Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

First name

Ritika

Last name

S

Email

ritika@gmail.com

Required. Inform a valid email address.

Password

••••••

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

Password confirmation

••••••

Enter the same password as before, for verification.

Save

Add User(Customer/Manager/Vendor)

User

User type

Contact number

Joining data

Address

Save

Add User(Customer/Manager/Vendor)

User

ritika

User type

Customer

Contact number

9842250945

Joining data

01/11/2020

Address

Chennai

Save

Contact number

9842250941 ✕

Profile with this Contact number already exists.

+ Vendor

+ Milk Category

👤 All Vendors

Customers ▼

+ Customers

+ Milk Category

👤 All Customers

Add Vendor

Manager name
Ravi

Vendor name
Maha

Vendor contact
9944554466

Address
Mumbai

Joining date
2020-11-09

☑ Status

Save

Add MilkCategory

Animalname
Buffalo

Milkprice
68

Related vendor
Maha

Save & Continue

Vendor Name	Joining Date	Contact	Address	Status
Rahul	19-05-2020	9754144785	kota	Active
Maha	09-11-2020	9944554466	Mumbai	Active
Mahi	09-11-2020	9944554461	Bandra	Active
Mahaa	09-11-2020	9941154466	Mumbai	Active

Vendor Name

Rahul

Maha

Mahi

Mahaa

Maha

Vendor	Date	Milk Type	Quantity(Liter)	Save
Maha		Buffaloe-68.0	0	Save

No.	Date	Milk Category	Price	Quantity	Total	Delete
1	09-11-2020	Buffaloe----- ₹ 68.0	₹ 68.0	2.0 L	₹ 136.0	Delete
2	09-11-2020	Cow----- ₹ 45.0	₹ 45.0	4.0 L	₹ 180.0	Delete
					316.0	

Maha

Vendor	Date	Milk Type	Quantity(Liter)	Save
Maha		Buffaloe-68.0	0	Save

No.	Date	Milk Category	Price	Quantity	Total	Delete
1	09-11-2020	Buffaloe----- ₹ 68.0	₹ 68.0	2.0 L	₹ 136.0	Delete
2	09-11-2020	Cow----- ₹ 45.0	₹ 45.0	4.0 L	₹ 180.0	Delete
3	02-11-2020	Buffaloe----- ₹ 68.0	₹ 68.0	4.0 L	₹ 272.0	Delete
					588.0	

Maha

Vendor	Date	Milk Type	Quantity(Liter)	Save
Maha		Buffaloe-68.0	0	Save

No.	Date	Milk Category	Price	Quantity	Total	Delete
					0.0	

Customer Name	Contact Number	Address	Email id
rakesh verma	9754122478	kota	rakesh@gmail.com
Vandana A	9842250949	Pune	van@gmail.com
Ritika S	9842250941	Chennai	ritika@gmail.com

Ritika S

Customer	Date	Milk Type	Quantity(Liter)	Save
Ritika S	09-11-2020	Cow-34.0	0	Save

November 2020

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

No.	Da		Price	Quantity	Total	Delete
						0.0

Ritika S

Customer	Date	Milk Type	Quantity(Liter)	Save
Ritika S		Cow-34.0	0	Save

No.	Date	Milk Category	Price	Quantity	Total	Delete
1	07-11-2020	ritika: (Cow, ₹ 34.0)	₹ 34.0	5.0 L	₹ 170.0	Delete
					170.0	

Vandana A

Customer	Date	Milk Type	Quantity(Liter)	Save
Vandana A		Buffaloe-45.0	0	Save

No.	Date	Milk Category	Price	Quantity	Total	Delete
1	09-11-2020	vandana: (Buffaloe, ₹ 45.0)	₹ 45.0	4.0 L	₹ 180.0	Delete
2	09-11-2020	vandana: (Cow, ₹ 35.0)	₹ 35.0	2.0 L	₹ 70.0	Delete
					250.0	

Manager Ravi ▾

⚙ Change password

↪ Log out

Log in

Username

ritika

Password

•••••••••

Log in

Milkman

E milk service

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Started in 2015, Milkman aims to bring back the basics of Milk. We

127.0.0.1:8000/Customer_page/

Ritika S

Date	Milk Category	Price	Quantity	Total
07-11-2020	ritika: (Cow, ₹ 34.0)	₹ 34.0	5.0 L	₹ 170.0
				170.0

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Started in 2015, Milkman aims to bring back the basics of Milk. We

127.0.0.1:8000/Customer_page/

Vandana A

Date	Milk Category	Price	Quantity	Total
09-11-2020	vandana: (Buffaloe, ₹ 45.0)	₹ 45.0	4.0 L	₹ 180.0
09-11-2020	vandana: (Cow, ₹ 35.0)	₹ 35.0	2.0 L	₹ 70.0
				250.0

Home   Vandana_A

Customer vandana ▾

⚙ Change password

➡ Log out

Vandana A

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Log in

About Us

50 years back, life was very simple. We used to have a cow in our backyard that gave us natural and fresh milk everyday. There was never a need to worry about adulteration since we owned the animal. Today, the milk we consume is either reconstituted/recombined with milk powder or takes days to reach our home post milking which is prone to adulteration.

Started in 2015, Milkman aims to bring back the basics of Milk. We

Milkman

E milk service

Thank You !